

CURRICULUM VITAE

**Tom Andrew Vestal, Ph.D.
Professor and Extension Specialist
Homeland Security and Emergency Management
Extension Organizational Development Unit**

**Department of Agricultural Leadership, Education
and Communications**

**Texas AgriLife Extension Service
The Texas A&M System**

August 6, 2008

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PERSONAL INFORMATION

Date: August 6, 2008

Name: Tom Andrew Vestal
Rank: Professor & Extension Specialist-Homeland Security & Emergency Management
Unit: Extension Organizational Development #715
Dept: Agricultural Leadership, Education and Communications
Family: Married 1987 to Susan, 2 children Tom 19, and Taylor 16
Address: 2905 Coronado Drive, College Station, TX 77945

EDUCATION

- Ph.D. Agricultural Education, Texas A&M University, College Station, TX, 1998
Major Area: Extension Education with specialization in Diffusion of Food and Agricultural Innovations in Social Systems
Dissertation: “Effects of *Biotech Foods: The First Harvest* on Knowledge, Attitudes, and Perceptions of Journalists for Newspapers in Metropolitan Markets in the United States Regarding Food Biotechnology.”
Supporting Fields: Educational Administration and Speech Communications
Ph.D. Committee: Drs. Gary Briers, Chester Fehlis, John Mullet and John Hoyle
- M.Ed. Agricultural Education, Texas Tech University, Lubbock, TX, 1982
Major Area: Practical Extension Education/Technology Transfer to Agricultural Producers
Research: “Effectiveness of Prostaglandin F2a for Synchronizing Estrous in Cattle for Artificial Insemination.”
Supporting Fields: Adult Experiential Education and Animal Reproduction
M.Ed. Committee: Marvin Cepica, Jerry Stockton, John Dillingham
- B.S. Agricultural Education, Tarleton State University, Stephenville, TX, 1977
Supporting Fields: Animal Science, Agricultural Economics, Biology, and Entomology
Certificate: Secondary Teaching Agricultural Science, State of Texas

POSITION DESCRIPTION

Current Appointment: Professor and Extension Specialist 100% Extension
Promotion from Associate Professor 9/1/06
Dates: 2005 – present

Position Description for FY08

30Mar08

Tom Andrew Vestal, Ph.D.
Professor & Extension Specialist
Homeland Security and Emergency Management
Texas AgriLife Extension Service
The Texas A&M System

Extension Organizational Development Unit
Department of Agricultural Leadership, Education and Communications
148 Scoates Hall, MS-2116
College Station, TX 77843

Texas AgriLife Extension Service, Texas A&M System ; 100%

Supervisors: Scott Cummings (Assoc. Department Head) jointly with Kyle Smith (Exe. Assoc. Director) and Roland Smith (Assoc. Director AgNR)

Extension Organizational Development Unit Support

The Extension Organizational Development unit focuses on agency-wide needs and Unit Functions including: Strategic Planning, Program Development, Professional Development, Technology Assisted Learning, Evaluation, Accountability, Leadership, Volunteerism and special projects. As determined by the unit leadership, Vestal provides leadership for agency-wide homeland security and emergency management and take responsibility for assigned special projects. Currently he serves as Co-Chair for the Texas Extension Emergency Management Steering Committee; agency liaison to the State Emergency Management Council; and Principal Investigator for Texas AgriLife Extension Service components of the National Center for Foreign Animal and Zoonotic Diseases Defense.

In these roles Vestal applies the unit functions described above to guide train, and support Texas AgriLife Extension Service county agents, specialists and administrators in the context of homeland security and emergency management to ensure resilience of individuals, families, communities, government jurisdictions and businesses by providing agency-wide leadership for preparedness, mitigation, response and recovery from natural, man-made and terrorist driven crisis/disasters.

Food and Agricultural Biosecurity and Emergency Management Education

Background: Texas AgriLife Extension's Strategic Plan outlines the importance of homeland security education as a vital programmatic area addressing citizens and communities regarding biosecurity and disaster preparedness. Vestal specifically addresses the following programmatic goals and objectives in the agency's 2008 -2013 Strategic Plan.

I. Texans and their communities become more resilient by effectively preparing for and recovering from disasters.

II. Agricultural producers, landowners, agribusiness, and county Extension agents become more knowledgeable of best practices to prevent, detect, and respond to potential biosecurity issues, whether naturally occurring or through bioterrorist action.

Responsibilities: Vestal establishes and supports effective organizational structures that foster broad engagement within Extension for homeland security and emergency management planning as described below.

EM Steering Committee (15 members): Provide leadership as co-chair of the Texas Extension Emergency Management Steering Committee. Extension personnel Texas AgriLife Extension Service and Prairie View A&M University Cooperative Extension Program serve as an advisory group to guide both agencies in developing an exercising an effective homeland security and emergency management program.

State Emergency Management Council (55 State Agencies): Provide agency leadership to develop and maintain appropriate planning documents that address responsibilities assigned in the State Emergency Management Plan, to include standard operating procedures.

Governor's Division of Emergency Management: Serve as agency liaison to the Governor's Division of Emergency Management (GDEM) and provide 24/7 operation of the Texas AgriLife Extension Service agency desk at the State Operation Center in Austin upon call by the Governor or his representative.

Industry Relations: Provide leadership to food and agricultural industry coordination, collaboration, sponsored programs and financial stewardship on homeland security and emergency management planning, preparedness, mitigation, response and recovery.

Government Relations: Provide leadership to county, state and federal government relations regarding homeland security and emergency management.

Emergency Support Functions (ESF): Identify and prioritize appropriate Emergency Support Functions outlined in the Department of Homeland Security National Response Framework based on the agencies mission and competencies. Petition appropriate state agencies with the our "Summary of Agency Support" for inclusion in the appropriate annex in the State Emergency Management Plan.

Headquarters Operation Center (HOC): Serve as State Operation Center liaison (Austin) to the Texas AgriLife Extension Service HOC (College Station) during preparedness, response and recovery phases of crisis. In February 2007, the agency activated its emergency operations center for the first time during Operation Palo Duro, a 3-day four-state FMD functional exercise that with a temporary Unified Command Center in Amarillo.

Incident Resource Teams (IRT): Provide guidance and support to 16 IRT co-chairs who lead eight Extension Incident Resource Teams with 133 specialists supporting relevant homeland security and emergency management programming. IRT members develop educational materials, design communication strategies, provide professional development throughout the organization

Disaster District Committees: Collaborate with GDEM Field Response Supervisors for placement and training of Extension management team members (DEAs and RPDs) who represent the agency on 23 Disaster District Committees across the state. Disaster Districts are the State's regional emergency management organizations that serve as the initial source of state emergency assistance for local governments.

State of Texas Incident Management Teams: Collaborate with GDEM and Texas Forest Service to recruit and train Extension personnel who are interest in qualifying to serve on the State of Texas All Hazards Incident Management Teams.

Additional responsibilities -

- As Principle Investigator for Extension programming at the National Center for Foreign Animal and Zoonotic Disease Defense (FAZD) Dr. Vestal has established and leads Texas AgriLife Extension's Services collaboration with 1890 and 1862 Cooperative Extension Programs in California, Kentucky, Arkansas, Tennessee, North Carolina and Montana to deliver educational materials to CEAs and specialists in support of Zoonosis Prevention, Crisis Communications, and County Animal Security and Health Network projects.
- In this role Dr. Vestat is active in grantsmanship, personnel supervision and financial stewardship through collaborations linking scientists and Extension educators from numerous disciplines to enhance the competitiveness of biological and physical sciences research grants by incorporating Extension education components.
- FAZD program deliverables to the Department of Homeland Security are measurements that seek to discover effective educational delivery and public dialogue strategies and models to address issues of consumer responses to risk assessment and risk communication messages. FAZD program evaluation contributes to the knowledge-base of agricultural and extension education through descriptive and experimental research that aims to:

Determine benchmarks for longitudinal program impact evaluation of knowledge gained of risk mitigation strategies by agricultural clientele.

Describe target audiences in terms of knowledge, attitudes, and behavior regarding to homeland security concerns and the need for preparedness.

Measure effectiveness of educational methods, delivery strategies (including web delivery), and modules being developed for animal health related disaster preparedness.

STUDENT ADVISING/TEACHING: College of Agriculture and Life Sciences (COALS): 0% FTE

Vestal serves on the graduate faculty of Agricultural Education at Texas A&M University guiding young scholars in their inquiry and pursuit of new knowledge and advanced degrees by engaging them in contemporary Extension educational contexts. As a member of the joint Doc@Distance Program of Texas A&M and Texas Tech, Vestal serves on graduate committees and guides young scholars enrolled in the Doc@ Distance Program of Texas A&M and Texas Tech.

I will contribute to planning and implementation of the department's Fund for Excellence in Agricultural Education (FFE) capital and annual campaign and continue stewardship of current grant awards for Agricultural Awareness programming.

Recent/Current Servant Leadership Commitments

- (2008-2009) Member – Public Policy & Regulatory Outreach Advisory Panel, Institute of Food Technologists, Chicago, IL
- (2008) Member - FEMA Incident Management Systems Division Phase 2 Animal Emergency Responders Work Group, Washington, D.C.
- (2007-2008) Member - National Extension Disaster Education Network, AgroSecurity Committee, Washington, D.C.
- (2007-2008) Chair elect - National Extension Disaster Education Network, Professional Development Committee, Burlington, Vermont
- (2005-2008) Member - National Extension Disaster Education Network, Annual Meeting Committee – Burlington, Vermont
- (2007-2008) Chair and Immediate Past-Chair - Government Relations Committee, Institute of Food Technologists, Washington, DC
- (2007-2008) Member- Management Committee on Science Communications and Government Relations, Institute of Food Technologists, Washington, D.C.
- (2007) Juror - Vice Chancellor Awards of Excellence, College Station, TX
- (2004- 2007) Juror and Chair- IFT Congressional Award for Science, Washington, DC
- (1995 -2008) Member - Texas Extension Specialist Association, College Station, TX
- (1995,2006-2007) Member, State Treasurer - Epsilon Sigma Phi, College Station, TX
- (1996-2008) Member- Bryan/College Station Chamber of Commerce Agribusiness Council
- (2006-2007) Alumni , LEAD21- Developing leaders in land-grant institutions, Indianapolis, Kansas City and Washington, D.C.

PAST EXPERIENCE

2000 - 2005

Associate Professor and Extension Specialist, Associate Director for Extension Outreach- Institute of Food Science and Engineering (IFSE), College Station, TX

Appointment: Extension 50%, Research 25%, COALS 25%

Responsibilities: Dr. Vestal supervised the IFSE communications specialist and 2 support staff and provided leadership to Extension outreach and public policy education on food and agricultural biotechnology, food safety and food irradiation. At the Institute of Food Science and Engineering Vestal coordinated grant writing and project management among interdisciplinary teams of scientists across numerous departments in the three colleges. He established new collaborations with Texas Medical Association, Texas Public Schools Food

Service Association, Texas Department of Health, Texas Education Agency Regional Service Centers, Texas Association of School Business Officials, Texas Beef Council, Texas Food Processors Association, Texas Citrus Mutual, Texas Produce Association, Grocery Manufacturers of America, American Nuclear Society, National Restaurant Association and the Institute of Food Technologists to advance foods science and food safety education.

1994 - 2000

Extension Specialist & State Coordinator, TAEX/TAES AgriFood Education Program Lecturer-Department of Agricultural Education, College Station, TX

Appointment: Extension 50%, Research 25%, COALS 25%

Responsibilities: Dr. Vestal provided leadership for the development and expansion of the AgriFood Education Program aimed at increasing youth and adult agricultural awareness. He served as lead instructor for two undergraduate courses. His TAES and TAEX appointments focused on outreach while his teaching appointment was as lecturer in Agricultural Education.

1990 - 1994

County Extension Agent – Agriculture & Agricultural Program Leader

Bexar County Office of Texas Agricultural Extension Service, San Antonio, TX

Appointment: TAEX 100%

Responsibilities: Dr. Vestal provided leadership to three industry-based food and agricultural stakeholder advisory committees designed for needs assessment, strategic planning and educational program implementation. As agricultural program leader, Dr. Vestal coordinated a team of four professional faculty and four agricultural and horticultural staff members. He provided leadership to more than 120 trained volunteers who fueled the agricultural education efforts of Extension's Texas AgriFood Master Program in Bexar County. Dr. Vestal secured funding needs and provided stewardship of county, state and private source funds through volunteer financial committees, external treasurers and auditors. He established a 501(c) 3 non-profit corporation chaired by former Governor Dolph Briscoe to enhance financial development for Extension programming. Dr. Vestal wrote and delivered noon-hour Tuesday and Thursday radio broadcasts on WOAI (50K Watts) and weekly television KENS-CBS channel 5, featuring science and human interests regarding agriculture, food and natural resources.

1988 - 1990

County Extension Agent – Agriculture & Trainer Agent

Hockley County Office of Texas Agricultural Extension Service, Levelland, TX

Appointment: TAEX 100%

Responsibilities: Dr. Vestal provided leadership to two county food and agricultural stakeholder committees who guided planning and implementation of agricultural education and field demonstration work; established two commodity marketing clubs and taught principles and techniques of price risk management using commodity option contracts. He supervised and provided leadership and training for 2 new Extension employees; published and disseminated

the results of applied research and demonstrations to the agribusiness community in the annual *Hockley County Extension Result Demonstration Handbook*.

1981 - 1988

County Extension Agent – Agriculture & 4-H and Youth Coordinator

Crosby County Office of Texas AgriLife Extension Service, Crosbyton, TX

Appointment: TAEX 100%

Responsibilities: Dr. Vestal provided leadership to program development committee work and implementation in agricultural, 4-H and integrated pest management (IPM) programs supporting two additional county Extension agents, and six IPM program assistants and paraprofessional staff; procured and provided stewardship for budgetary needs from county commissioners court and private sources; established Crosby County AI Breeders Association (CCAIB) as a beef cattle genetic improvement program in 1983 and was fortunate to attend the 20th Annual CCAIB production sale in 2003; published and disseminated results of applied research and field demonstration work to the agribusiness community in the annual *Crosby County Extension Result Demonstration Handbook*; led youth experiential education in social skills competitions, livestock enterprise management, shooting sports, equestrian and internships in public service.

1977 - 1981

County Extension Agent – Agriculture & 4-H & Youth Coordinator

Howard County Office of Texas Agricultural Extension Service, Big Spring, TX

Appointment: TAEX 100%

Responsibilities: Dr. Vestal served as 4-H and Youth Coordinator; trained and managed adult volunteers in service to 1,000+ youth in traditional and non-traditional settings; coordinated youth leadership and experiential education in social skills competitions, livestock enterprise management, shooting sports, equestrian, and experiential education modules in horticulture; administered and analyzed applied research and field demonstration work in integrated pest management, weed and brush control, and boll weevil migration and habitat management; results of demonstration work were published and disseminated to producers in the annual *Howard County Extension Result Demonstration Handbook*.

PROFESSIONAL HONORS AND AWARDS

2006 – National Recognition Announcement, Chair IFT Government Relation Committee,

One recognized each year as part of the Congressional Award for Science, Russell Senate Building, Washington, D.C.

2004 President’s Gavel - Texas AgriLife Extension Service Specialists Association

One award is presented each year. Award in recognition of leadership and service to the membership of the Association and representation of the organization in concert with other organizations of Extension professionals and Extension administrators.

2004 Recognition Award for Excellence in Service - Texas Cattlewomen's Association

Several awards may be presented each year. This award was in recognition of long-term partnerships and collaborations on food safety education in cooperation with Texas Cattlewomen's chapters across the state.

2003 Certificate of Recognition - Texas Beef Council

Several awards may be presented each year. Award was in recognition of partnerships and collaborations on food borne illness prevention and food safety education for Texas school food service directors in cooperation with Texas Beef Council.

2003 Alumni Recognition Award - Baird Independent School District

One award presented each year. This award recognizes Baird High School alumni for academic and professional success and connects current students with the larger alumni student body with a keynote speech at graduation ceremonies.

2002 Awarded Certificate as a "Professional Member" - Institute of Food Technologists

Several awards are presented each year. This award was in recognition of outstanding food and agricultural science and food technology Extension education programs.

2002 Nomination to Government Relations Committee - Institute of Food Technologists

Three nominees are selected out of the 27,000 international members annually to serve 3-year terms. Nomination in recognition educational programs regarding the interdependencies among urban and rural communities and outstanding food and agricultural education.

2002 Certificate for Leadership in Food Safety Education - H.E. Butt Grocery Company

One award was presented at the Grand Opening of HEB Grocery Company's new \$3.2 million Quality Assurance and Environmental Affairs Facilities. Award was in recognition of 10 years of TCE/HEB partnerships on food safety and agricultural education.

2001 Biotechnology Education Recognition - Bayer Corporation Agricultural Division

Several awards may be presented each year. This award was in recognition of leadership and support of Texas agriculture through biotechnology education seminars and symposia.

1999 Director on Agribusiness Council - Bryan-College Station Chamber of Commerce

Four nominees are selected as members annually to serve three-year terms. Nomination was in recognition of a history of educational programs regarding the interdependencies among urban and rural communities and outstanding food and agricultural education.

1997 Outstanding Doctoral Student - Dept of Ag Education, Texas A&M University

One award per year is presented by the department in recognition for service benefiting the mission of the department and support of graduate students.

1994 Award for Superior Service- South Texas Farm & Ranch Club,

Several awards may be presented each year. Award was in recognition of volunteer leadership and service to South Texas farmers and ranchers.

1992 Award for Outstanding Service - Texas State Grange, San Antonio, TX

Several awards may be presented each year. Award in recognition of leadership and support of South Texas agriculture through television, radio and community education programming.

1994 Recognition Award for Diversity – Prairie View Cooperative Extension Program

Several awards may be presented each year. Nominated by Ms. Patrice Hertzog, Prairie View Cooperative Extension Program of Bexar County, TX.

1994 Honorary Director - San Antonio Livestock Exposition

Several awards presented each year. This award was in recognition of leadership to volunteer committees and continued support to the mission of San Antonio Livestock Exposition.

1993 Team Award for Superior Service - Texas Agricultural Extension Service

Several awards presented each year. This award was in recognition of innovative educational programs resulting in (1) three exemplary Master Volunteer programs; (2) four weekly television programs; (3) four weekly radio programs, and (4) excellence in adult and 4-H youth education in service to the citizens of San Antonio, Bexar County, and the State of Texas.

1993 Superior Service Award - Texas Agricultural Extension Service

Several awards presented each year. Award was in recognition for developing Texas AgriFood Masters and Bexar County Bee Masters as two exemplary Extension master volunteer programs that delivered Extension education on agricultural awareness and Africanized honey bees to hundreds of thousands of citizens in Bexar County and the State of Texas.

1990 Recognition for Outstanding Service - Hockley County 4-H Clubs and Adult Leaders

One award presented. This award was in recognition of leadership and support to Hockley County 4-H Youth through educational programming.

1990 Superior Service Award for Agriculture and Agribusiness Education - Hockley County Extension Crops Committee

One award presented. This recognition was for leadership to cotton marketing club education and outstanding result demonstration programs.

1988 4-H Recognition Award - Crosby County 4-H Clubs and Adult Leaders

One award presented. This award was in recognition of leadership and support to the youth of Crosby County 4-H.

1988 Award for Outstanding Service to Agriculture - Crosby County AI Breeders Association and Extension Ag Committees

One award presented. In recognition of support to beef cattle genetic improvement and marketing programs and outstanding result demonstration programs in field crops.

1983 Cotton Incorporated Recognition Award - South Plains Cotton Conference

Several awards may be presented each year. Awarded for outstanding Extension education and marketing programs in the South Plains of Texas regarding cotton fiber quality enhancement genetics, practices and technologies.

1982 Extension Service Recognition Award - National Cotton Council

Several Awards may be presented each year. In recognition for outstanding education programs on cotton marketing and field demonstration work with Texas cotton growers and breeders.

1981 Recognition for Service - Howard County 4-H Clubs and Adult Leaders

One award presented. This award was in recognition of leadership and support to the youth of Howard County 4-H.

1980 TCAAA Outstanding New Agent Award - Texas County Agricultural Agents Association (TCAAA)

One award per district presented each year. The awarded recognizes excellence in Extension program development, implementation and evaluation in youth and adult agricultural and natural resources programs.

CONSULTING

ADViSYS, Inc., The Woodlands, TX. Developed a report and presentation describing the characteristics of innovations of importance to consumers and the innovator in preparation for the launch of new biotechnology innovations. Nov 11-12, 2003

SUMMARY OF EXTENSION AND TEACHING ACTIVITIES

1990-2008

Accomplishments	Number	Grant Value	Vestal Share
Contracts & Grants			
Internally Funded	9	\$ 124,938	\$ 124,938
Externally Funded	18	\$ 2,873,300	\$ 2,028,900
Total C&G	27	\$ 2,990,738	\$ 2,187,676
Total Unfunded Proposals	16		

Scholarly Works

Scholarship of Engagement

Peer-reviewed Journal Articles	11
Peer-reviewed Abstracts/Proceedings	31
Peer-reviewed Extension Publications	39
Radio Programs Broadcasted	272
Television Programs Broadcasted	186
Articles in Popular Press	231
Presentations and Seminars	
International	13
National/Regional	39
State/District	80
Local/County	39
Total Scholarly Works	852

COALS Graduate Student Committees	(7/1/08)
Master (chair)	2
Master (member)	8
Ed.D. (chair)	1
Ph.D. (member)	5
Total Graduate Students Committees	16

PROFESSIONAL GOALS

My passion and personal goals are to become one of the executive leadership team members of Texas AgriLife Extension Service and advance our Land-Grant mission to:

- deliver educational programs concerning products and practices that have stood the rigors of scientific inquiry and are particularly focused on our food system and its contributions to global political, environmental and economic stability and human health.
- advance dialogue among opinion leaders (i.e., scientists, industry, educators, mass media, and elected officials) to improve public and private decision-making aptitudes regarding the biological and physical nature of agricultural sciences and the complex related social, behavioral, political, economic and legal systems.
- communicate to consumers the ongoing convergence of human, animal and plant health, and environmental quality at the interface of biological, physical and social sciences.
- foster our collective success in extension, research and teaching to enhance contributions of agriculture to environmental quality and a safe and abundant supply of food, essential to human health and well being.
- cultivate multi-disciplinary relationships for competitive grantsmanship and foster private industry partnerships to support our Land-Grant mission.
- provide leadership for Texas AgriLife Extension Service through stewardship of our strong production agricultural stakeholder base and by strategically strengthening our post-farm gate food industry stakeholder base.

PERSONAL AND PROFESSIONAL VISION STATEMENT

(written, 15Jun05)

My personal and professional visions are expressions of the dreams I hold for the spiritual and physical life that is still ahead. It is reflective of a character cultivated through life's spiritual, social and intellectual experiences. My vision defines a sense of calling and can help forge my chosen path. This is the written statement of my essence, my purpose in life.

Personal Vision Statement

The real meaning of my personal vision is defined by the values most near to my heart. Spirituality ranks first, that is; serving God's purpose with my gifts and my talents. God placed me here at this time among these people to perform with a high degree of integrity for a greater good. I value next Gods' gift of the most loving wife and family. I place at high value, time with family at home, when traveling, and at the family farm cultivating our spiritual values under the "Big Oak" and making memories with our children. Having a nice home, safe community, friendships and excellent educational opportunities for our children are valued interests. Next, I value time with professional colleagues, the majority of whom are in the business of serving others through leadership and education. The culminating effect of my personal call is to be a servant leader in Christian discipleship, a warm husband and father, a friend to colleagues and community and a leader in improving the lives of others.

Professional Vision Statement

World population, environmental degradation, land usage, technology transfer, access to education and social poverty are selected megatrends that substantiate the need for relevant AgriLife Extension leadership and education programs. I believe that a person should be a part of the actions and passions of their time. This statement defines the real meaning in my professional vision.

I care deeply about the contribution of my professional life to advancing scholarship in agricultural Extension through leadership, education and communications. I will develop teaching, research and Extension programs with the purpose of equipping and inspiring students and practitioners to understand the consequences of global megatrends. To achieve my vision, I must be a catalyst with my Extension colleagues and work collaboratively, collectively and cooperatively to address complex issues. At land-grant universities, leading Extension organizations authorize their most innovative and futuristic individuals and groups of faculty to anticipate future needs and truly advance our multifunctional mission by integrating the physical and biological sciences with the human dimensions of social and technological change. I wish to provide leadership at the executive level in AgriLife Extension to advance the profession and promote innovative and futuristic Extension actions.

EXTENSION EDUCATION ACTIVITIES

- 2006 – present – 100% AgriLife Extension Appointment
- 2005 – 2006 – 75% AgriLife Extension 25% COALS Appointment
- 1994 – 2005 – 50% AgriLife Extension 25% COALS, 25% AgriLife Research
- 1977 – 1994 – 100% AgriLife Extension Appointment

Program Statement:

On July 1, 1994 Dr. Vestal with 17 years of experience as a county Extension agent became an Extension specialist with Texas AgriLife Extension Service to continue his scholarship of engagement. Dr. Vestal defines engagement as scholarly programs that capture scholarship in the areas of teaching, research and outreach/service. Initially, his responsibilities were to provide leadership to statewide coordination and expansion for the AgriFood Education Program. His goals were to develop relevant educational materials, modules and programs to support county extension agents in enhancing the public's knowledge and awareness of contemporary agricultural technology and practices.

In 2000, Dr. Vestal accepted the appointment of associate professor and Extension specialist in the department of Agricultural Education and associate director for outreach at the Institute of Food Science and Engineering (IFSE). In this role he led three primary efforts *(1) connecting people, (2) informal extension education and (3) administration/supervision*. Dr. Vestal connected research scientists with extension specialists across departmental and college lines and found new means to address the problem-focused challenges of our time. He promoted collaborative grantsmanship to seek external funding on multi-disciplinary agriculture, food science and natural resources-related issues. In his outreach, Dr. Vestal practiced experiential education and employed the concepts and principles of diffusion of innovations. He engaged with science educators, policy makers and food industry groups about contemporary food science innovations with emphasis on biotechnology and food safety. His administrative responsibilities at IFSE included supervision of two communications and outreach staff. He provided leadership for procurement and management of private and federal contracts and grants at IFSE.

Dr. Vestal received national recognition for his work in agricultural awareness and food science education by U.S. Representative Charles Stenholm (Washington, DC, 1993), National Urban Extension Conference (Pittsburg, 1994), National Seed Trade Association (New Orleans, 1995), and the Council on Agricultural Science and Technology (Kansas City, MO, 2001). His expertise in food science education was in demand at the state, national, and international levels. He shared his expertise on biotechnology, genomics, and food safety with consumer organizations, science educators, professional societies, and industry stakeholders.

Summary of Major Achievements:

Homeland Security/Emergency Management

2005 to present

Professor & Extension Specialist, Homeland Security/Emergency Mgmt. & Principal Investigator FAZD Defense Center

- CoChaired Texas Extension Emergency Management (EM) Steering Committee engaging agency-wide professionals from both Texas AgriLife Extension Service and Prairie View A&M University Cooperative Extension.
- CoChaired EM strategic planning process, formulated the agency vision & strategic direction, initiated CEA professional development programs, designed & implemented organizational structure for administration (Headquarters Operation Center) & specialists (Incident Resource Teams) based on incident type and emergency support functions.
- Guided agency leadership in acquiring membership to the State of Texas Emergency Management Council.
- Organized 133 specialists on 8 Incident Resource Teams to identify & develop incident-based educational resource materials & link them to the Texas EDEN website the official EM web presence for the agency.
- Leading agency government and industry relations regarding Homeland Security & Emergency Management.
- Currently chairing an identification & prioritization process for the agency's resource commitments to the State EM Plan.
- Engaged administrators, specialists & agents in EM exercises, incident management observations, EM training to elevate the organization's continuity of business plan & its educational efforts for citizen preparedness, mitigation & recovery.

Biotechnology Education 1996-2005

Dr. Vestal sustained a growing and in-depth understanding about new processes and products of biotechnology by which to inform and educate consumers, educators and policy makers about biotechnology-related innovations. He integrates his knowledge of biosciences with his experiences as an extension educator to address the social dimensions of biotechnology innovations which ultimately affect the innovation-adoption process of consumers. *Dr. Vestal's interest is to understand how diffusion of certain innovations is slowed because of the lack of consideration for the social implications of innovations during the processes of discovery, development and commercialization.* Contemporary conflicts among scientists, profit-driven innovators, certain consumer organizations, policy makers and concerned scientific segments of society are prominent when considering innovations brought about by the sciences of food and agricultural biotechnology.

Dr. Vestal provided leadership to teams of research scientists and extension specialists to assess education needs, plan delivery strategies, create educational materials, teach and evaluate biotechnology education programs. This enhanced the technical competencies of county extension agents, secondary science teachers, consumer groups, and agribusiness groups so they to may become technically competent as biotechnology educators and spokes-persons in their communities. His work with consumer and professional organizations resulted in numerous organizational position statements and recommendations based on rigorous scientific inquiry. His leadership resulted in the adoption of the following position statement regarding Texas AgriLife Extension Service and biotechnology education.

POSITION STATEMENT

EXTENSION'S ROLE IN BIOTECHNOLOGY EDUCATION

Texas AgriLife Extension Service is charged with informing the public about science, technical processes and products that have been developed through and tested by the rigorous standards of scientific research. It is our objective to provide unbiased research-based information so citizens can make knowledgeable decisions.

T.A. Vestal

Extension: Learning About Biotechnology
September 2001 Issue Vol. 1 No. 7

Needs Assessment in Biotechnology Education 1996-1998 (Descriptive Research)

To establish a benchmark regarding social discourse, Dr. Vestal surveyed journalists practicing at the nation's 100 largest newspaper organizations based on daily circulation. The survey instrument used Likert-type scales to measure journalists' knowledge, attitudes and perceptions regarding biotechnology-derived foods. Data was collected from 88 news journalists for analysis. The results of this study were published in the *Journal of Agricultural Education, HortScience and Journal of Applied Communications* (Vestal & Briers, 1999-2000) and presented at numerous agricultural research and stakeholder meetings.

Texas Medical Association Task Force on Safety of Genetically Modified Foods 2001-2002

Providing science-based expertise on agricultural biotechnology as a member of Texas Medical Association's (TMA) Blue-Ribbon Task Force on Genetically Modified Foods during 2001-2002 remains one of Dr. Vestal's career highlights and proud accomplishments. He represented the Texas A&M System Agriculture Program on the Task Force and secured a balanced and solidly science-based *Report of TMA Task Force on Genetically Modified Foods* (<http://www.texmed.org/Template.aspx?id=2572>) that was disseminated to 37,000 members of TMA and across the nation to other professional medical societies.

Higher Education Consortium for Biotechnology Education 2001-2002

Dr. Vestal engaged a talented pool of 25 science communicators and educators from 18 Texas colleges and universities and four State agencies in an 18-month process of sharing their personal and institutional strengths, identifying collaborative opportunities and providing consumer education on biotechnology. The Consortium's first collaboration began in 2001 with peer review of Dr. Vestal's five-part series of Extension publications titled "Exploring the

Genetic Frontier.” Today more than 12,000 of these consumer-education brochures have been distributed and are available on-line at <http://agrilifebookstore.org>.

Biotechnology Educational Materials for County Programs 2001-2005

Dr. Vestal used the results of the *2001 Biotechnology Education Support to County Programs Survey* to design teaching materials and events for county extension agents. This data contributed to the design of lesson plans provided or presented to county extension agents, high school family and consumer sciences, agricultural sciences and biology teachers, consumer advocacy groups and professional organizations. The level of extension educator competencies measured in the survey guided Dr. Vestal to design and publish educational modules, CDRoms and web pages that have reached thousands of youth and adult audiences as introductory lessons on DNA sequencing, genetic engineering, recombinant DNA, genomics and the U.S. regulatory food safety process for biotechnology-derived foods. These educational materials and delivery strategies include:

- Biotechnology: The Windows Version (lesson plan, 2001)
- The DNA Dance (lesson plan, 2001)
- TCE Position Statement on Biotechnology Education (2001)
- Recombinant DNA: rDNA Insuline (lesson, 2002)
- Ten Steps to Safety: Regulating Agriculture Biotechnology (lesson, 2002)
- Biotechnology Education Web Page (<http://biotech.tamu.edu> , 2001-2005)
- Biotech Projects at A&M, Biotechnology For Texas Web Page (<http://agnews.tamu.edu/biotech>, 2002-2005)
- Molecular Biology & Biochemistry for Tummies (lesson, 2004)
- Biotechnology Web Site (<http://ifse.tamu.edu/biotechMain.htm> , 2004-2005)

Biotechnology Teachers’ Conference 2001-2007

In 2001, Dr. Vestal and Mr. Dan James, Professor and 4-H and Youth Specialist at Dallas, established an annual professional development event for secondary science teachers entitled “Biotechnology: Opportunities and Challenges,” held at the Texas A&M Research and Extension Center at Dallas. The event annually engages opinion leader science teachers and research scientists from AgriLife Extension, AgriLife Research, Texas A&M University, University of Texas at Dallas, University of Texas Southwest Medical Center, Collin County Community College, and Texas A&M Kingsville-Texas Citrus Center. Texas AgriLife Extension Service continues to provide collaborative leadership to this effort along with Collin County Community College, University of Texas at Dallas, Texas Education Agency, AgriLife Research, and Region X Educational Service Center at Dallas to create an environment for exchange between science teachers and scientists. Dr. Vestal secured the original funding for the event in its inaugural 3 years and continued on the planning committee through 2005. The event continues to draw over 100 high school teachers annually.

Post-conference teacher evaluations reflected positive results noting newfound connections with scientists and knowledge gained. Teachers gave high regard to the scientists for providing a CDRom with Texas Essential Knowledge and Skills-based lesson plans, visuals and experiential learning materials for each of the educational modules. Outcomes from this conference are measured in terms of knowledge gained and behavior changes among the teachers. Teacher responses to the evaluation instrument in 2004 illustrate our evaluation efforts below.

Selected Question 1

“New knowledge and skills were acquired and will be applied in current teaching assignment”

- 88 responses on a 5-point Likert scale (1 as “strongly disagree” to 5 as “strongly agree”)
- 65% indicated “4” or “5” (“mostly agree” and “strongly agree”) that knowledge and skills acquired in the training will be applied to current teaching assignment

Selected Question 2

“Implementation of knowledge/skills will impact student performance”

- 88 responses on a 5-point Likert scale (1 as “strongly disagree” to 5 as “strongly agree”)
- 60% indicated “4” or “5” (“mostly agree” and “strongly agree”) that knowledge and skills acquired in the training will impact student performance

Descriptions of Certain Innovative Biotechnology Educational Materials written by Dr. Vestal

The following educational lesson plans and modules were disseminated via CDROM and hard copy to Texas Association of Extension 4-H Agents, Texas Education Agency Family and Consumer Science teachers, Conference for the Advancement of Science Teachers, Biotechnology: Opportunities and Challenges science teacher conference, Vocational Agriculture Teachers Association of Texas and many others.

Recombinant DNA and Bacteria: A Bio-Factory for Human Insulin (2001) – an interactive and visual educational module designed to demystify the invisible nature of recombinant DNA by demonstrating relative advantages, reducing complexity, illustrating compatibility and creating an observable application.

The DNA Dance (2001) – an experiential education activity that demonstrates to young and old how DNA is structured, spliced, read and recombined. *The DNA Dance* is an approved modified version of the original DNA Dance (1992) Tom Zinnen, University of Wisconsin Biotechnology Center & UW Extension.

Ten Steps to Safety – Regulating Crop Biotechnology (2002) – an education presentation for use by extension agents, teachers and Ag Science Fair instructors delivered via MS PowerPoint and print/downloadable brochure. The lesson features, in a 10-step model, how USDA, EPA and FDA independently and collectively apply scientific rigor and regulatory responsibilities to examine the human and environmental safety of biotechnology-derived foods. “*Ten Steps to Safety*” has been produced for multimedia dissemination on CDROM, DVD, on-line downloadable (pdf) at <http://agrillifebookstore.org>.

Countermeasures to Food Biosecurity and Safety (2003) – a lesson plan that meets Texas

Essential Knowledge and Skills objectives for integrated physics and chemistry. This lesson introduces students to certain biological hazards that may lend themselves to countermeasures using electron beam linear accelerator physics to damage or destroy chemical bonds in the DNA of microorganisms. This lesson is available on CDROM and hard copy, and was first presented to high school teachers attending the biotechnology teacher conference in Dallas.

Joint U.S. & Korea Workshop: Ethics and Public Understanding of Biotechnology 2003-2005

Dr. Vestal served on a TAMU International Program Asia/Pacific collaborative contributing his expertise in biotechnology education and outreach. Planning began in 2003 and the first face-to-face forum took place with the Korean Research Institute for Biosciences and Biotechnology in Seoul and Daejeon, South Korea in April 2005. Objectives of the collaborative include the implementation of a three-day joint workshop designed to identify common research priorities and to investigate possible areas of joint research cooperation on biotechnology, bioethics and public understanding of biotechnology in South Korea and the United States.

Food Science and Food Safety Education 2000-2005

At the Institute of Food Science and Engineering of the Texas AgriLife Research, Dr. Vestal connected research scientists and extension specialists from three colleges and multiple departments to strengthen research and outreach. To address food safety issues, Dr. Vestal provided leadership to symposia and workshops developed in collaboration with extension specialists, food scientists, food engineers, veterinary public health scientists, horticulturists, microbiologists and quality assurance specialists across TAMUS to establish knowledgeable educators and practitioners.

In March 2002, Dr. Vestal made his first educational presentation on electron beam food irradiation to 250 nuclear scientists during the American Nuclear Society annual meetings in Santa Fe, NM. Through 2005 he collaborated with other Extension specialists and research scientists to establish a comprehensive outreach program to enhance the technical competencies of three main target audiences (1) food industry professionals, (2) extension agents, and (3) a diversity of school foodservice professionals and secondary school science teachers. Brief descriptions of Dr. Vestal's extension educational programs on food safety are below.

E-Beam Food Safety Workshop for Extension Family and Consumer Science Agents 2001-2004

Dr. Vestal teamed with Britta Thompson, extension associate for Foods and Nutrition, to present a three-day workshop in March 2002 to enhance the knowledge, attitudes and behaviors of Texas Extension family and consumer science educators about food irradiation. This project served to establish transferable teaching models using educational research methods to identify causal relationships among the constructs – knowledge, attitudes, perceptions and behavior—of educators. The findings from this study (see Program Impact: Food Safety Workshop for Extension FCS Agents 2001-2004, page 43) served to guide the team to develop learner-centered instruction in future conferences.

Food Service Directors' Professional Development 2003-2004

With the passage of the 2002 Farm Bill, irradiated ground beef in schools was approved starting January 2004 prompting many school foodservice directors to request education on this topic. In 2003, Dr. Vestal assembled a team of extension specialists and agents for eight regional conferences across the state in cooperation with Texas Education Agency Regional Service Centers. The conferences were attended by 298 school foodservice directors in El Paso, Lubbock, San Antonio, Waco, College Station, Irving, Dallas and Houston.

Pretest and post test surveys were collected from participants attending the first three of the eight conferences. Responses indicated significant positive increases in attitudes and beliefs about food irradiation among school foodservice directors. More specifically, their beliefs about the safety of irradiated products, their willingness to purchase irradiated foods and their confidence in communicating about food irradiation to others, including their administrators, improved. The findings from this study served to guide the team to improve learner-centered instruction. Additionally, a conference was conducted for dietitians working in institutional settings (e.g., hospitals, nursing homes). American Dietetic Association professional development accreditation was sought by Dr. Vestal and awarded to participating dietitians.

Family and Consumer Science Teachers Professional Development on Food Safety 2003-2004

As CoPI of a four-year \$1,060,000 USDA-CSREES grant entitled "Improving Safety of Complex Food Items using Electron Beam Technology," Dr. Vestal assembled a team of extension specialists and food scientists to plan, implement and measure the impact of an educational workshop targeting high school Family and Consumer Science teachers. Texas AgriLife Extension Service pilot-tested a professional development workshop aimed at enhancing the technical and communications competencies of the targeted teachers.

First, an educational needs assessment was administered to identify the needs and benchmark the competencies of the teachers. Data was collected from a group of randomly selected high school Family and Consumer Sciences teachers who taught one or a combination of the courses in Food Science and Technology, Nutrition and Food Science, and Food Production, Management, and Services. Overall, 121 teachers responded, and it is notable that 93% of the teachers had never taught about food irradiation technology. The professional development workshop attended by 29 teachers was on February 2-4, 2004. The results and dissemination of findings for this workshop are documented on page 54-55 (see Program Impact: Professional Development Workshops on Food Safety 2003-2005).

Produce Industry and Extension Agent Training on Food Safety 2003-04

Dr. Vestal teamed with Dr. Frank Dainello, extension horticulturist, and planned, implemented and measured the impact of an educational workshop targeting fruit and vegetable industry professionals and extension educators. An educational needs assessment benchmarked the competencies of the targeted produce industry professionals and extension agents. The August 4-6, 2004 workshop aimed to enhance the technical and communications competencies regarding food safety and the use of electron beam food safety technology. As a result, these educators gained proficiency in the basic science of food microbiology, food irradiation and food safety technology. Participating educators studied human dimensions regarding the risks and benefits of food irradiation so that they were better prepared to make science-based decisions regarding this food safety technology. The results and dissemination of findings for

this workshop are documented on page 54-55 (see Program Impact: Professional Development Workshops on Food Safety 2003-2005).

High School FFA Ag Issues Competition Team Development 2002 -2004

Dr. Vestal collaborated with numerous high school science and agricultural science teachers in preparation for science fair and other scholastic competition at the high school level. For example, Dr. Vestal collaborated with Mr. Doak Stewart, meat science teacher at James Madison High School in San Antonio, and trained a team of high school students for a career development competition called Ag Issues Team. Dr. Vestal hosted the team of six students and Mr. Stewart on two occasions with seminars and tours of the Electron Beam Food Research Facility in 2002 prior to area and state FFA competition. After winning the state competition, the team attended a refresher seminar and again toured the facility in preparation for their National FFA Competition. In November 2003 the team took 1st place at the National FFA competition in Louisville, KY. The students performed several outreach programs in the San Antonio area.

Agricultural Awareness Programs 1991-2005

Texas AgriFood Masters Volunteer Program in Bexar County 1991-2004

Dr. Vestal's passion for teaching others about what it takes to make agriculture function to meet human and environmental needs was heightened by a 1989 mass media event called the "Alar Scare." From that time his energies and ideas focused to address the need to make Americans more scientifically and agriculturally literate. In his Texas AgriFood Master Program Business Plan (1994) he stated, "good science-based agricultural, natural resources and environmental policy are dependent on a polity with enough agricultural-related knowledge to make sound decisions." In 1990, he became county extension agent for Texas AgriLife Extension Service in San Antonio, Bexar County, targeting both urban and rural audiences. For the next four years, his energies aimed at new and expanded outreach programs such as a twice per week noon-hour agriculture and natural resources radio broadcasts on 50,000 watt CBS-WOAI and a weekly farm and ranch television program at San Antonio's CBS affiliate KENS TV-5 with the largest viewing audience in South Texas.

In a 1991 Bexar County strategy meeting hosted by Dr. Vestal, goals were set to emulate the Master Gardener volunteer training and outreach program to teach people about modern food, agriculture and natural resource conservation practices by establishing the Texas AgriFood Master Volunteer Program. Vestal believed that the best method to reach the masses in a metropolitan area with over one million people was to expand his extension outreach capacity by training-the-trainer. Within two years, the outreach of Texas AgriFood Masters volunteers elevated the 4-H and youth education programs in Bexar County to more than 14,000 4-H youth from a historic average below 2,000. Vestal provided leadership to the successful recruitment of San Antonio business leaders including former Governor Dolph Briscoe; Lowry Mays, CEO of Clear Channel Communications; Bill Fry, VP at HEB Grocery Company, and others to form a 501(c)3 non-profit corporation called the AgriFood Education Council (fund development >\$500,000 1992-2004) for oversight and financial stewardship for the Texas AgriFood Master Program. From 1991 to 1994, he served as founding board member and director of AgriFood Education Council, Inc. and remained as an honorary director for advisement from 1994 to 2004.

AgriFood Education Program 1994-1999

In 1994, the Texas AgriLife Extension Service and AgriLife Research sought to expand the Texas AgriFood Master Program to other key counties; hence Dr. Vestal's move to College Station as extension specialist and state coordinator for the AgriFood Education Program. His goals were to share the experiences of county extension agents in Bexar, Dallas and Randall counties where Texas AgriFood Master programs were thriving, with other key Texas counties. To support this effort, Dr. Vestal wrote, published and disseminated *The Texas AgriFood Masters Expansion and Management Guide (TAEX Publication B6021)* and *Texas AgriFood Masters Tool Chest (TAEX Publication B6022)* in 1995. These publications, designed for on-line access, were Dr. Vestal's first web-based educational publications to assist county extension agents.

By 1996, adoption by county extension agents was slow. Vestal recognized that management of the entire volunteer development, training and outreach components experienced in the original Texas AgriFood Masters Program was much too time consuming to bring about extensive adoption by county extension agents across Texas. Plan "B" was initiated in 1996, and opinion leader county extension agents from 40 Texas counties, Oregon, New Mexico, and Illinois were trained to implement the most successful AgriFood Master project, the "Ag Science Fair." This 1996 transition introduced extension agents to the Ag Science Fair event which has since proven to be the most successful contribution by the AgriFood Master Program.

In 1999, Dr. Vestal transitioned the coordination responsibilities of these rebranded *Agricultural Awareness* initiatives to be administered by the Texas 4-H & Youth Program offices in College Station. The creative educational delivery strategies used by county extension agents in these agricultural awareness programs have contributed to continuing program expansion beginning with the first Ag Science Fair event that reached 400 youth in 1989 to the largest Extension 4-H and Youth project in Texas. Texas 4-H reported that Agricultural Awareness programs reached more than 500,000 4-H participants in 2004-05.

Agricultural Awareness Futuring Exercise 1998

In preparation for the future of Extension's ever growing agricultural awareness programs, Vestal engaged 21 Texas AgriLife Extension Service agents and administrators in a futuring exercise employing *Hackman's Group Effectiveness Model*. The model, created by Richard Hackman a Harvard Professor of Social and Organizational Psychology aimed to (1) establish a shared vision for agricultural awareness issues and (2) identify how extension specialists may best serve county agricultural awareness programs. This Delphi-type needs-assessment culminated with nominal group process hosted by the Houston Livestock Show and Rodeo™. Participants identified and prioritized agricultural awareness issues, stakeholders who claim agricultural awareness as a relevant extension education program, and specific actions necessary of specialists to support county programs reaching youth and adult audiences.

This futuring exercise yielded a prioritized list of educational actions/projects for 1999-2003 by which to reach youth. This included improved experiential learning events for elementary children, interactive educational modules for food science and technology, crops, livestock, agricultural engineering, horticulture, natural resources, food safety and ecotourism. Prioritized actions included mass media support on emerging issues; briefings on facts and figures

regarding production agriculture and agribusiness; and management training to expand extension outreach through a corps of trained volunteers. Agricultural Awareness program priorities were recorded and communicated to extension specialists and county extension agents via the quarterly Agricultural Literacy Network newsletter.

Comments/Educational Program Impact: Feedback from County Extension Agents

Below are quotations by extension agents who participated in workshops and training sessions hosted by Dr. Vestal. These comments are provided as indicators of relevance, quality, leadership and educational value of Dr. Vestal's programs.

- Excellent in-depth training, applicable in county program and very relevant to the current times and needs.
- Sounds like a very satisfying opportunity to participate in the growth and development of volunteers. I'm excited!
- Excellent training and very educational.
- This forum gave me the opportunity to learn about the latest research in irradiation and interact with others on Extension's role in disseminating the information.
- Tour of facility was excellent and opportunity to interact with manager and learn more about irradiation was excellent. Dr. Vestal and Dr. Dainello did an excellent job in coordinating this event.
- This training was very good, including the general sessions and the tours.
- The training has stretched my vision.
- The most helpful parts of the training for me included ideas about the AgriFood Council; Economic Impact Report, Managing Volunteers and Fund-raising.
- This was a very worthwhile training session.
- I've got it, because I am going to make this work!
- Good that we can choose the parts we need and add others later.
- Thanks for the training and sparking new ideas!
- The workshop has given me a new look and a new perspective on ways to look at my job as a county agent and in an urban setting.
- The best training I've attended in my 20 years as an agent.
- Excellent training! Right on target! I am especially interested in the Ag Impact brochure and the Ag Fair concept.
- The concept involved with the program has reminded me of the importance of involving key leaders, marketing, and educating about agriculture and agribusiness.
- The information gained on working with people will certainly be utilized in our county.
- Many of these techniques can and will be used with our traditional audiences to improve those programs and delivery systems.

Feedback Comments from Extension Specialists

Listed below are quotations by extension specialists who attended workshops and training sessions hosted by Dr. Vestal. These comments are provided as indicators of relevance, quality, leadership, and educational value of Dr. Vestal's programs.

"The time spent in reaching a greater depth of understanding of the research and technology transfer effort was well worth my time. The extension component of this program is critical to the future expansion and acceptance of this process tool by producers and consumers. The organization of the program was excellent in both delivering and receiving information. I have a high expectation that the feedback that was exchanged during the 2-days will be incorporated into positive enhancements and outcomes."

Trevor Suslow, Ph.D.
Extension Vegetable Specialist
UC Cooperative Extension

"This training has opened more knowledge of e-beam, shared education methods. Interchange of information on methods and exchanges at meal functions, icebreakers and engagement of audience was excellent. Partnering was welcomed and encouraged and promoted. Very open to ideas, criticism and encouraged interaction. Excellent session and sharing!"

Doug Sanders, Ph.D.
Vegetable & Food Safety Specialist
North Carolina Cooperative Extension

"This training established a broad base network of potential cooperators to assist education efforts regarding e-beam technology. It enabled me to get a good indication of the type of information needed to advance e-beam acceptance both from an educator and clientele standpoint. The training enabled me to gain an insight into the pros and cons of e-beam technology."

Frank Dainello, Ph.D.
Extension Horticulturists
Texas AgriLife Extension Service

"This training was very valuable to me because I was able to learn about ongoing research in food irradiation. I believe this is an important aspect of food safety with valuable implications for fruits and vegetables. Thank you very much for the opportunity to attend this forum. I really enjoyed it and feel that it was very beneficial to me. I would be interested in additional contact with your group."

Amanda Scott
Extension Assistant Food and Nutrition
Texas AgriLife Extension Service

"First, the program was an amazingly thorough introduction to E-Beam technology and its potential applications. The program was amazing, because I knew nothing about it, but now see many ways to use it, and because my knowledge of radiation physics allows me to appreciate its potential in national food processing practice. The facility, the staff, and the A&M organization related to the E-Beam project appear to me to be equally as capable of partnering with us in E-Beam work as others parts of A&M have been on past collaboration-in other words, I 'feel good' about working together."

Dennis Osborne, Ph.D. J.D.
Extension Assoc. Horticulture,
North Carolina Cooperative Extension

“Working with the vegetable industry in the Texas High Plains, I can envision how this type of training can help to inform county agents, specialists, producers and consumers of the benefits of food irradiation. The knowledge I gained from this training meeting is important. I believe that a usable packet for presentations through the county level will greatly aid in consumer understanding for the benefits to food safety. This meeting definitely gave me some new concepts to think about and I was grateful to be involved. It was well prepared and informative.”

Russ Wallace, Ph.D.
Extension Vegetable Specialist
Texas AgriLife Extension Service

“The information received during these 24 hours was invaluable to me as a Food Science Specialist. I received an update on accelerator technology and how it might enhance the quality and safety of food products. My interest is fruit and vegetable quality and safety, so this information was right on target. Thanks for a great program.

Al Wagner, Ph.D.
Extension Program Leader for Horticulture
Texas AgriLife Extension Service

Evidence of Performance and Demand for Programs 2001-2008

The following list of science-based presentations are provided as indicators of the frequency and scope of program development and educational programs prepared and implemented in service to consumer organizations, science educators, professional societies and industry stakeholders. These presentations involved development of audio visuals, handout materials, CDROM distribution, web assisted learning or experiential learning activities derived from research-based principles and concepts, including quantitative data and qualitative findings.

International Presentations

Apr 19, 2005	Daejeon, Korea	<i>Biotechnology Education through Bridging Research Scientists and High School Science Teachers</i> , Korean Research Institute of Biosciences and Biotechnology
Nov 30, 2004	Sacramento, CA	<i>Quality, Nutrition and Safety: Effects of Irradiation on Foods</i> , California Farm Bureau Federation and USDA-FAS, Food Irradiation Policies and Possibilities.
Nov 30, 2004	Sacramento, CA	<i>Industry Perspective: E-Beam Food Irradiation</i> , California Farm Bureau Federation and USDA-FAS, Food Irradiation Policies & Possibilities
Apr 16, 2004	Jakarta, Indonesia	<i>Update on eBeam Microbial Intervention and Shelf-life Preservation</i> , Indonesian Cold Chain Food Industry Training Project (via Polycom)
Jun 3, 2003	College Station	<i>Introduction to Electron Beam Food Irradiation</i> , La Universidad Autónoma de Guadalajara (UAG) Food Science Faculty
Apr 24, 2003	College Station	<i>Texas AgriLife Extension Service Biotechnology Education and Social Science Research</i> , European Union Policy Center Multi-national Conference
Apr 15, 2003	College Station	<i>Strategies for Extension Biotechnology Education</i> , Korean Research Institute of BioScience and Biotechnology (Yuseong-gu, Daejeon, Korea) and Texas A&M Department of Agricultural Economics
Mar 27, 2003	McAllen	<i>Produce Irradiation as a Quarantine Treatment</i> , Fruit and Vegetable Shippers of the Texas and Mexico Rio Grande Valley

Mar 5, 2003	College Station	<i>Animal Biotechnology Science, Policy and Bioethics, International 4-H Youth Exchange: Greek Delegation</i>
Feb 26, 2003	Raleigh, NC	<i>Countermeasures to Quarantine/Phytosanitary Applications Electron Beam Technology for International Trade of Fruits and Vegetables; USDA-APHIS, North Carolina State University Centennial Campus</i>
Apr 16, 2002	Santa Fe, NM	<i>Electron Beam: 21st Century Food Safety, American Nuclear Society Annual Meetings</i>
Aug 12, 2002	College Station	<i>Diffusion of Innovations through Texas Extension Education in Texas, Mexican Agribusiness Delegation</i>
Aug 8, 2002	College Station	<i>Consumer Acceptance of Food Irradiation, FAO Group Fellowship for Food Regulatory Professionals (14 countries)</i>

National and Regional Presentations

Aug 29, 2008	Louisville, KY	<i>Introduction to 6-State FAZD County Animal Security and Health Pilot Project, 1862 and 1890 State Extension Directors, Associate Directors and Programs Leaders attending the Southern Region National Program Leaders Network Annual Meetings.</i>
Jan 8, 2008	Clemson, SC	<i>Extension Agents and Specialists: Commitments Supporting the State Veterinarian in Emergencies, Southeast Regional Animal AgroSecurity Conference, USDA/ Extension Disaster Education Network.</i>
Jan 8, 2008	Clemson, SC	<i>How Extension Functions as a State Emergency Management Agency in Texas! Southeast Regional Animal AgroSecurity Conference, USDA/ Extension Disaster Education Network.</i>
Oct 28, 2007	Ft. Worth, TX	<i>Introduction to 6-State FAZD County Animal Security and Health Pilot Project, Extension Program Leaders and County Extension Agents from Arkansas, Kentucky, Montana, North Carolina, Tennessee and Texas.</i>

Apr 3, 2007	Las Cruces, NM	<i>Defining Extension's Role in Emergency Management, Southwest Regional Animal AgroSecurity Conference, USDA/Extension Disaster Education Network.</i>
Mar 29, 2007	Harrisburg, PA	<i>Defining Extension's Role in Emergency Management, Northeast Regional Animal AgroSecurity Conference, USDA/Extension Disaster Education Network.</i>
Jan 30, 2007	Napa, CA	<i>Introduction to Crisis Communications/Media Relations Made Easy, Animal & Public Health Risk and Crisis for Communications Workshop, National Center for Food Protection and Defense/National Center for Foreign Animal and Zoonotic Disease Defense, Department of Homeland Security University Centers for Excellence.</i>
Nov 1, 2006	Nashville, TN	<i>Building Capacity to Deliver Disaster Education, National Extension Disaster Education Network Annual Meeting.</i>
Nov 6, 2007	Hilo, HI	<i>Playbook for Extension in Emergencies,, National Extension Disaster Education Network Annual Meeting.</i>
Apr 2, 2007	Las Cruces, NM	<i>Extension's Role in Emergency Management, Southwest Regional Extension Disaster Education Network Animal AgroSecurity Conference</i>
Mar 28, 2007	Harrisburg, PA	<i>Extension's Role in Emergency Management, Northeast Regional Extension Disaster Education Network Animal AgroSecurity Conference</i>
Oct 30, 2006	Nashville, TN	<i>Extension's Role in Emergency Management, National Extension Disaster Education Network Annual Meeting</i>
Aug 26, 2006	San Juan, PR	<i>Extension's Role in Emergency Management, Southern Region Program Leaders and Directors</i>
Jul 21, 2005	Las Vegas, NV	<i>Experiential Education Employed to Demystify Food Irradiation as a Viable Technology for Food Industry Professional, American Society for Horticultural Science Annual Conference</i>

Jul 19, 2005	New Orleans, LA	<i>Advances in Food Irradiation Technology Symposium: Consumer and Producer Education on eBeam Irradiation</i> ; Institute of Food Technologist Annual Meeting and Food Expo
May 24, 2005	Chicago, IL	<i>Food Irradiation Basics</i> , National Restaurant Association Annual Conference
Nov 19, 2004	College Station	<i>Science and Engineering of Electron Beam Technology</i> , Chief Scientific Officers The Kellogg Company
Oct 26, 2004	Washington, DC	<i>Sanitary and Phytosanitary Applications of Irradiation</i> , Institute of Food Technologists Office of Science Communications and Government Relations.
Oct 6, 2004	New York, NY	<i>How much safer is irradiated meat and poultry?</i> Food Manufacturing Magazine's Process Engineering Expo 2004
Aug 27, 2004	College Station	<i>Food Safety and Physical Sciences of Electron Beam Technology</i> , Legislative Aid to Texas Senator Kay Bailey Hutchison and representatives of Meyers and Associates of Washington, DC
Aug 23, 2004	College Station	<i>Science and Engineering of Electron Beam Technology</i> , University of Arkansas Research and Extension Administrators
Jun 15, 2004	Oklahoma City	<i>MixAlco Process as a Platform Technology for a Multi-state Approach to Enterprise Development of Biomass Support Systems</i> , South Central Region Sun Grant Initiative Conference
Jun 3, 2004	Stillwater, OK	<i>Food Safety and Microbial Intervention Strategies</i> , Oklahoma High School Agriculture Science Teachers Professional Development Conference
Mar 25, 2004	Washington, DC	<i>Phytosanitary Applications of Irradiation using Electron Beam and Isotope Technology</i> , Horticulture & Tropical Fruits Division of USDA-FAS and Plant Protection and Quarantine Division of USDA-APHIS

Nov 19, 2003	College Station	<i>Food Irradiation History, Science and Food Quality</i> , Scientific Status Writers of the Washington DC Office of the Institute of Food Technologists
Apr 21, 2003	College Station	<i>Engineering and Biological Aspects of Radioisotope and Electron Beam Food Irradiation for Quarantine Treatments</i> , USDA-APHIS Plant Protection and Quarantine Division
Jan 22, 2003	College Station	<i>Novel Educational Delivery Strategies on Food Irradiation</i> , Multi-state Virtual Conference Texas A&M University, UC-Davis, USDA-FSIS, Minnesota Beef Council
Jan 14, 2003	College Station	<i>Engineering and Physics of Electron Beam</i> , Texas Food Processors Association
Jan 10, 2003	College Station	<i>Food Safety with Electron Beam Technology</i> , Southwest Meat Association
Jan 9, 2003	Las Cruces, NM	<i>Biotechnology: Opportunities and Challenges</i> , New Mexico Agricultural Experiment Station Science Conference, New Mexico State University
Oct 22, 2002	College Station	<i>Food Industry Adoption of Electron Beam Food Technology</i> , U.S. Food Industry Members of the Institute of Food Science and Engineering Advisory Council
Oct 19, 2002	San Antonio	<i>Food Irradiation with Electron Beam</i> , National Meeting of Las Dames de' Escoffier (Women Influencing Cuisine)
Sep 27, 2002	Lubbock	<i>Phytosanitary Applications of Irradiation for Seed-borne Disease Control</i> , National Grain Sorghum Producers Association
Sep 2, 2002	College Station	<i>E-Beam Irradiation for the National School Lunch Program</i> , USDA Agricultural Marketing Service
Aug 9, 2002	College Station	<i>Research and Commercialization of Electron Beam Food Irradiation</i> , State of Missouri, Department of Agriculture

Jul 11, 2002	College Station	<i>Electron Beam Food Safety Technology, Mocon, Inc. of Pennsylvania</i>
Feb 19, 2002	West Lafayette, IN	<i>Issues Surrounding Biotechnology and Foods, (Polycom) Food and Nutrition Department</i>
Oct 23, 2001	College Station	<i>Extension Biotechnology Education Initiatives, Institute of Food Science and Engineering Advisory Council</i>
Jun 20, 2001	St. Louis, MO	<i>Communicating Biotechnology by Bridging Higher Education and Community Educators, Council for Agricultural Science and Technology (CAST)</i>
Sep 11, 2000	Austin	<i>Human health, environmental quality, and food and fiber production properties of agricultural biotechnology innovations. Grocery Manufacturers of America State Affairs Committee</i>

Statewide and District Presentations

June 24, 2008	Austin, TX	<i>2008 Hurricane Evacuation and Sheltering Plan: Texas AgriLife Extension Service Resource Commitments, State Operations Center/Governor's Division of Emergency Management.</i>
Jan 25, 2007	Austin, TX	<i>How Extension Functions as a State Emergency Management Agency! Texas Department of Agriculture.</i>
Dec 7, 2007	San Angelo, TX	<i>National Incident Management System Compliance and Emergency Resource Acquisition Protocols, District 7 County Judges and Commissioners Conference. gram Agents-Agriculture and 4-H.</i>
Nov 16, 2007	Austin, TX	<i>2007-2008 Texas Wildfire Prevention and Suppression: Texas AgriLife Extension Service Resource Commitments, State Operations Center/Governor's Division of Emergency Management.</i>
Aug 2, 2007	Amarillo, TX	<i>Texas Animal Health Commission/Texas AgriLife Extension Guidelines for Establishing a Community Animal Issues Committee, Texas Cattle Feeders Association and West Texas A&M University.</i>

Jun 18, 2007	Prairie View, TX	<i>Introduction to 6-State FAZD County Animal Security and Health Pilot Project</i> , Extension Administrators Prairie View A&M Cooperative Extension Program.
May 31, 2007	College Station, TX	<i>State of Texas Hurricane Emergency Management Plan</i> , Texas AgriLife Extension Service County Extension Agents Serving 57 Counties in Tier-1 Hurricane Evacuation and Sheltering Hubs.
Mar 15, 2007	Austin	<i>Texas AgriLife Extension Service Emergency Management Interpretation</i> , State Emergency Management Council Member Agencies
Nov 14, 2006	Austin	<i>National Center for Foreign Animal and Zoonotic Disease Defense Carcass Management Science and Policy Workshop</i> ; State, Federal and local regulatory agencies, Texas livestock and poultry industry stakeholders, and research community.
Sept 27, 2006	Prairie View	<i>Emergency Management Table Top Exercise</i> , Prairie View A&M Graduate Class
May 10, 2006	Prairie View	<i>Emergency Management Training</i> , Professional Development Conference for Prairie View A&M University Cooperative Extension
May 24, 2006	Ft. Worth	<i>Emergency Management Training</i> , Professional Development Conference, Texas AgriLife Extension East Region Emergency Management Training for County Extension Agents
May 22, 2006	Victoria	<i>Emergency Management Training</i> , Professional Development Conference, Texas AgriLife Extension South Region Emergency Management Training for County Extension Agents
May 17, 2006	San Angelo	<i>Emergency Management Training</i> , Professional Development Conference, Texas AgriLife Extension Service West Region Emergency Management Training for County Extension Agents
May 15, 2006	Lubbock	<i>Emergency Management Training</i> , Professional Development Conference, Texas AgriLife Extension North Region Emergency Management Training for County Extension Agents

Jul 20, 2005	Houston	<i>Food Irradiation for Food Safety, Professional Development Conference for Family and Consumer Sciences Teachers</i>
Oct 5, 2004	College Station	<i>Results of Food Safety Education Targeting School Foodservice Directors in 2003-04, Advisory Council, Institute of Food Science and Engineering</i>
Sep 24, 2004	Austin	<i>Issues Regarding USDA Approval of Irradiated Beef for the School Lunch Program, Texas Beef Council School Foodservice Director's Workshop</i>
Aug 12, 2004	San Antonio	<i>Shelf-life Preservation and Microbial Intervention with Electron Beam, Texas Produce Association and International Fresh-Cut Produce Association</i>
Aug 5, 2004	College Station	<i>History, Science and Consumer Acceptance of Food Irradiation, Fruit and Vegetable Industry Professionals and Health Inspectors</i>
Aug 4, 2004	Abilene	<i>Biotechnology Experiential Education Methods, Vocational Agricultural Teachers' Assoc. of Texas</i>
May 13, 2004	Waco	<i>Biotechnology-derived Foods: Safety, Nutrition and Environmental Consequences, Baylor University Department of Family and Consumer Sciences and East Central Dietetics Association</i>
May 6, 2004	College Station	<i>History, Science and Beef Safety Applications of Electron Beam Technology, Texas Agricultural Lifetime Leadership Class and Alumni</i>
Apr 6, 2004	Waco	<i>Food Pasteurization using Electronic Irradiation, Region 12 Educational Service Center School Food Service Directors and Child Nutritionists</i>
Mar 11, 2004	Houston	<i>Nature's Acres: Agricultural and Environmental Awareness, Houston Independent School District Career Technology, Kid's, Kows, and More, and Four State Fair Association</i>
Feb 25, 2004	Houston	<i>Food Pasteurization using Electronic Irradiation, Texas Assoc of School Business Administrators</i>
Feb 2, 2004	College Station	<i>History, Science, and Food Safety Applications of Electron Beam Technology, Texas Education Agency Family and Consumer Science Teachers</i>

Jan 27, 2004	College Station	<i>Food Safety and Physical Sciences of E-Beam Technology, Texas Farm Bureau Board</i>
Jan 23, 2004	Lubbock	<i>Food Pasteurization Using Electronic Irradiation, School Food Service Directors and Child Nutritionists in Educational Service Center Regions 16, 17, 18</i>
Jan 12, 2004	Houston	<i>Food Pasteurization using Electronic Irradiation, Region IV Educational Service Center School Food Service Directors and Child Nutritionists</i>
Jan 6, 2004	College Station	<i>History, Science, and Food Safety Applications of Electron Beam Technology, Mid-winter Meetings of High School Agricultural Science Teachers</i>
Dec 5, 2003	College Station	<i>Food Irradiation with Electron Beam, International Ingredients, Inc.</i>
Nov 20, 2003	College Station	<i>Risks Associated with Foodborne Pathogens and Electron Beam Food Technology, Central Texas Dietetics Association</i>
Sep 23, 2003	College Station	<i>Biology and Physics of Food Irradiation, Food Industry Members of Texas Science Partnership</i>
Sep 18, 2003	College Station	<i>Food Safety in Schools, History and Science of Food Irradiation, Texas Beef Council Statewide Workshop for School Foodservice Directors and Child Nutritionists</i>
Aug 7, 2003	S. Padre Island	<i>Youth Education Curriculum for Food Safety Education, Texas Assoc. of Extension 4-H Agents</i>
Jul 31, 2003	Dallas	<i>Food, Water, and Agricultural Biosecurity Issues: Experiential Education Methods, Biotechnology Teachers' Conference of Texas AgriLife Extension Service, UT-Dallas and Region X Education Services Center</i>
Jul 30, 2003	Wichita Falls	<i>Experiential Food Safety Education Techniques, Annual Meetings of Vocational Agriculture Teachers Association of Texas</i>
Jul 24, 2003	Corpus Christi	<i>Teaching Techniques: Food Safety Risk and Intervention, Texas Education Agency Family Consumer Science Teachers Annual Meetings</i>

Jul 1, 2003	Lubbock	<i>Physics of Electron Beam Food Safety Technology and Consumer Acceptance of Food Irradiation, United Supermarket Quality Assurance Division</i>
Jun 25, 2003	Irving	<i>History of Food Irradiation: Texas Moves Ahead, Texas Beef Council Food Safety Symposium</i>
Jun 20, 2003	Waco	<i>Beef Quality and Safety with Food Irradiation, Independent Cattlemen's Association of Texas</i>
Jun 19, 2003	Fort Worth	<i>Electron Beam: 21st Century Food Safety, Annual Meeting of Texas School Food Service Assoc.</i>
Apr 24, 2003	College Station	<i>Connecting with Peers for Professional Development for Extension Specialists, Texas AgriLife Extension New Employee Orientation</i>
Mar 28, 2003	Weslaco	<i>Mexican Fruit Fly Quarantine Limiting Market: Irradiation as an Alternative Treatment to Methyl Bromide, Texas Citrus Mutual Growers Conference</i>
Feb 23, 2003	College Station	<i>Actions and Strategies for Texas AgriLife Extension Service Food Biotechnology and Food Safety Outreach, Advisory Council of the Institute of Food Science and Engineering, TAES</i>
Nov 18, 2002	College Station	<i>Electron Beam Applications in Beef Quality and Safety, Texas Beef Council Staff Nutritionists and Meat Scientists</i>
Oct 31, 2002	San Antonio	<i>Electron Beam: Food Safety Applications, State Family and Consumer Sciences Conference of Prairie View Cooperative Extension</i>
Oct 25, 2002	College Station	<i>Electron Beam 21st Century Food Technology, Texas A&M University College of Agriculture Development Council</i>
Oct 1, 2002	College Station	<i>Electron Beam Food Safety Technology, Texas Department of Health Manufactured Foods Division</i>
Sep 27, 2002	Lubbock	<i>Research Opportunities using Electron Beam Technology, Texas A&M Research and Extension Center and Texas Tech University Researchers</i>

Sep 24, 2002	Arlington	<i>Electron Beam: 21st Century Food Safety</i> , Texas Food Safety and Biosecurity Symposium, U.S. Food and Drug Administration
Aug 1, 2002	Houston	<i>Food Security/Food Safety</i> , Texas Education Agency Family and Consumer Science Conference
Jul 29, 2002	Austin	<i>Human Dimensions of Food Biotechnology</i> , Texas AgriLife Extension Service Specialists Association
Apr 18, 2002	Dallas	<i>Safety of Biotechnology –derived Foods</i> , Texas Medical Association Annual Meetings
Apr 10, 2002	San Angelo	<i>Biotechnology Innovations Here and Near</i> , Texas AgriLife Extension Service FCS Agent Training
Apr 4, 2002	Galveston	<i>U.S. Regulatory Process for Biotechnology-derived Foods</i> , Texas A&M-Galveston Bioenvironmental Sciences Department
Mar 2, 2002	Houston	<i>Food Biotechnology Innovations Here and Near</i> , Texas Family and Consumer Sciences Professional Development Conference
Feb 5, 2002	College Station	<i>Engaging Research, Teaching and Extension Outreach to Enhance Competitiveness of Life Sciences Grant Writing</i> , Texas A&M University Faculty Forum
Nov 29, 2001	Amarillo	<i>Agricultural Biotechnology Innovations Hear and Near</i> , High Plains Farm and Ranch Symposium
Oct 10, 2001	College Station	<i>Biotechnology: Opportunities and Challenges</i> , Texas AgriLife Extension Service New Faculty Orientation
Oct 1, 2001	College Station	<i>Communicating Biotechnology by Bridging Higher Education Researchers and Community Educators</i> , Monsanto Corporation Nutrition and Biotechnology Division
Sep 25, 2001	College Station	<i>Enhancing Technical Competencies in Electron Beam Food Irradiation</i> , Food and Nutrition Extension Specialists Training
Sep 24, 2001	Houston	<i>Nature's Acres Experiential Education</i> , Houston Independent School District Administrators

Sep 11, 2001	Austin	<i>Scientific Status Summary on Monarch Butterfly and Cryo 9 Bt Gene health and environmental research</i> , Texas Medical Association
Aug 29, 2001	Dallas	<i>Field of Genes</i> , Texas AgriLife Extension Service District 4-H Agent Training
Aug 19, 2001	San Antonio	<i>Biotechnology Innovations Here and Near</i> , Texas Produce Convention
Aug 8, 2001	Amarillo	<i>Biotechnology: The Windows Version</i> , Texas Extension 4-H Agents Association
Apr 9, 2001	College Station	<i>Learning about Biotechnology: The DNA Dance</i> , Texas Science Partnership
Feb 21, 2001	San Antonio	<i>Agricultural Biotechnology Innovations: Here and Near</i> , Bayer Corporation Agricultural Division
Jul 19, 2001	Dallas	<i>Food Biotechnology Innovations</i> , Annual Meeting of Family and Consumer Science Teachers of Texas Education Agency
Jun 28, 2001	Austin	<i>10 Steps to Safety: Regulating Plant Biotechnology in the United States</i> , Texas Medical Association Genetically Modified Foods Task Force
Feb 8, 2001	Dallas	<i>College Biotechnology Instructional Materials and Methods</i> , Community College Teachers Association of Texas
Jan 10, 2001	College Station	<i>Polishing Up Your Message on Biotechnology</i> , Texas A&M System Agriculture Program Conference
Jan 4, 2001	College Station	<i>Enhancing Competitive Research Grants with Extension Education Components</i> , Texas AgriLife Research Institute of Food Science and Engineering Faculty Retreat
Oct 18, 2000	College Station	<i>Understanding Consumer Attitudes and Perceptions Concerning Food Biotechnology</i> , Texas Chapter of the American Society of Agronomy

- Mar 15, 2000 Fort Worth *Understanding Consumer Attitudes and Perceptions Concerning Food Biotechnology, Texas Agricultural Cooperative Council/CoBank Annual Meetings*
- Jan 12, 2000 College Station *Food Biotechnology in the Media, Texas A&M System Agricultural Program Conference Research Session*

County and Local Presentations

- Jun 5, 2008 Rosenberg, TX *My County Has a Plan, Ft. Bend County Emergency Management Conference.*
- Jun 4, 2008 Houston, TX *Introduction to the 2008 State Hurricane Evacuation and Sheltering Plan, County Extension Agents at the Harris County office of Texas AgriLife Extension Service.*
- Oct 11, 2007 San Antonio, TX *How Extension Functions as a State Emergency Management Agency in Texas! County Extension Agents at the Bexar County office of Texas AgriLife Extension Service.*
- Aug 10, 2007 Rio Grande City, TX *Introduction to 6-State FAZD County Animal Security and Health Pilot Project, Star County and 1890 Program Cooperative Extension Program Agents-Agriculture and 4-H.*
- Aug 9, 2007 Edinburg, TX *Introduction to 6-State FAZD County Animal Security and Health Pilot Project, Star County and 1890 Program Cooperative Extension Program Agents-Agriculture and 4-H.*
- June 13, 2006 Dallas *Food, Ag and Water Biosecurity, Biotechnology Educators Conference, Texas A&M Research and Extension Center at Dallas Interpretation*
- Oct 17, 2005 Ft. Bend *Ft. Bend County Table Top Exercise, Texas AgriLife Extension Service Emergency Management Interpretation*
- Aug 2, 2005 Dallas *Food, Water and Agricultural Biosecurity, Biotechnology: Opportunities and Challenges Teachers Conference*

Jun 1, 2005	Abilene	<i>Biotechnology and Genomics: Food, Nutrition and Health Innovations</i> , Taylor County AgriLife Extension and Abilene Kiwanis
Oct 19, 2004	College Station	<i>Environmental Issues and Answers Regarding Agricultural Biotechnology</i> , Texas A&M University Bioenvironmental Science Association
Jul 29, 2004	College Station	<i>Electrical Powered Irradiation for Food Pasteurization and Shelf-life Preservation</i> , Travis County 4-H Youth and Adult Leaders
Jun 22, 2004	College Station	<i>Agricultural Biotechnology: Innovations and Issues</i> , TAMU Agriculture Graduate Student Society
May 7, 2004	College Station	<i>Modification of Phytochemicals in Fresh Fruits and Vegetables using Electron Beam Irradiation</i> , Horticulture Research Teams at Texas A&M University
Dec 2, 2003	College Station	<i>Introduction to Electron Beam Food Technology</i> , Newton High School FFA Career Development Event Team
Nov 18, 2003	Dallas	<i>Food Safety in Schools, History and Science of Food Irradiation</i> , Region X & Region XI School Foodservice Directors and Child Nutritionists
Nov 17, 2003	Beaumont	<i>Food Safety with Irradiation</i> , Jefferson County 4-H Council and Adult Leaders Association
Nov 17, 2003	Beaumont	<i>Electron Beam 21st Century Food Technology</i> , Beaumont Westbrook High School Family and Consumer Sciences & Ag Sciences Students
Nov 12, 2003	El Paso	<i>Food Safety in Schools, History and Science of Food Irradiation</i> , Region 19 School Foodservice Directors and Child Nutritionists
Oct 23, 2003	Tyler	<i>Electron Beam 21st Century Food Safety</i> , Smith County Extension Program Council
Oct 20, 2003	College Station	<i>Introduction to Electron Beam Food Technology</i> , FFA Career Development Event Teams of Dickenson and Salado High Schools and Texas A&M Food Service Administrators

Oct 17, 2003	College Station	<i>Biotechnology Research at Texas A&M University, West Texas A&M University Graduate Students</i>
Oct 8, 2003	Wharton	<i>Biotechnology: Biochemistry for Tummys, Wharton County Public Schools Ag Science Fair</i>
Sep 29, 2003	Houston	<i>Food Safety in Schools, History and Science of Food Irradiation, Region IV School Foodservice Directors and Child Nutritionists</i>
Sep 22, 2003	College Station	<i>Introduction to Electron Beam Food Irradiation, James Madison High School FFA Agricultural Issues Career Development Event Team</i>
Sep 4, 2003	Texarkana	<i>Novel Agricultural Awareness Educational Methods and Delivery Strategies, Red Rive County-Four State Fair Association</i>
Aug 6, 2003	Harlingen	<i>The Water Equation: Public Education Experiences in San Antonio, Rio Grande Valley Water Summit Planning Committee</i>
Aug 4, 2003	Edinburg	<i>Food Safety Technology Update, Texas AgriLife Extension Service-Hidalgo County</i>
Aug 5, 2003	Mercedes	<i>Processing Ground Beef with Electron Beam, H&H Foods, Inc.</i>
Apr 16, 2003	Houston	<i>Science, Public Policy & Regulation of Agricultural Biotechnology, Houston League of Women Voters</i>
Apr 3, 2003	Goliad	<i>Agricultural Awareness using Miniature Cotton Gin Demonstration Module, Texas AgriLife Extension Service Agent and Volunteer Training</i>
Jan 21, 2003	Victoria	<i>Biotechnology Innovations: Here and Near, Golden Crescent Veterinary Ranch Symposium</i>
Dec 13, 2002	College Station	<i>Consumer Issues and Acceptance of Food Irradiation, San Antonio James Madison High School Ag Science Students and Faculty</i>
Oct 29, 2002	Liberty	<i>Electron Beam 21st Century Food Safety, Four-County Beef Cattle Short Course</i>

Sep 6, 2002	Amarillo	<i>Modeling the Dallas Biotechnology Teacher Conference</i> , Texas Education Agency and Amarillo Educational Organizations
May 3, 2002	Houston	<i>Texas AgriLife Extension Service Curriculum Enrichment Programs</i> , Houston Independent School District Nature's Acres Project Group
Sep 13, 2001	Victoria	<i>Biotechnology Issues and Innovations</i> , Victoria County Master Gardeners
Sep 9, 2001	College Station	<i>Biotechnology and Society</i> , Christ United Methodist Church
Jun 5, 2001	Dallas	<i>Biotechnology: The Windows Version</i> , Biotechnology Teacher's Conference
Jun 21, 2001	College Station	<i>Introduction to Biotechnology</i> , Brazos County Chapter of the National Association of Federal Retired Persons

Grants and Contracts:

Dr. Vestal pursues public and private financial support and partnerships for research, teaching and Extension. He fosters long-term relationships with private businesses, corporations, philanthropic individuals and organizations in support of the Fund for Excellence in Agricultural Education, an annual campaign he originated in 1997. He collaborates with the AgriLife Development Office and the Texas A&M Foundation to make appropriate personal contacts with prospective donors.

The following is a list of grants, gifts and contracts secured through Dr. Vestal's leadership and collaboration. This section is provided as an indication of program relevance, creativity, diversity of collaboration and dedication to cross-disciplinary research and outreach activities.

Externally Funded Grants and Contracts

<u>Duration</u>	<u>Title</u> <i>(outreach component in italics)</i>	<u>Sponsor</u>	<u>Total Funding</u>	<u>Vestal Share</u>	<u>Role</u>	<u>Other Collaborators</u>
2008-09	<i>FAZD Zoonosis Public Health Curriculum and Outreach Program for Minority Operators and Underserved Populations of Animal Owners.</i>	U.S. Department of Homeland Security	\$ 50,400	\$ 50,400	PI	Texas A&M University at Kingsville
2008	<i>FAZD 6-State County Animal Security and Health Network Pilot</i>	U.S. Department of Homeland Security	\$ 76,900	\$ 76,900	PI	Cooperative Extension Programs in Arkansas, Kentucky, North Carolina, Montana, Tennessee, and Texas
2008	<i>FAZD Media Crisis Communications School</i>	U.S. Department of Homeland Security	\$99,500	\$ 99,500	PI	Purdue, Arkansas Pine Bluff and Prairie View Cooperative Extension Programs
2007-08	<i>Investigate the feasibility and benefit of establishing a nationwide Foreign Animal and Zoonotic Disease (FAZD) education and emergency communications network (EECN)</i>	U.S. Department of Homeland Security	\$364,000	\$364,000	PI	5 1890 LGUs 1 1994 LGU
2005-07	<i>Field Guide on Best Practices and Guidelines for Management of Contaminated Plant and Animal Materials</i>	TSWG	\$ NA	\$21,000	Project Mgr	S. Muhktar, W. B. Shimm
2005-07	National Center for Foreign Animal and Zoonotic Disease Defense	U.S. Dept of Homeland Security	\$18M	\$98,000	PI	R. Smith, C. Boleman, E. Smith
2005	<i>U.S./Korea Biotechnology Bioethics Conference Planning (Travel Grant)</i>	Korean Research Institute for Biosciences	\$ 2,100	\$ 700	Co-PI	Rick Nader Fuller Bazer

2005	Government Relations Committee (Travel Grant)	Institute of Food Techno- logists	\$ 2,700	\$ 2,700	Co-PI	Cory Bryant Brian Neimira
2004	<i>Framework of Equivalency Conference for Foreign Trade of Irradiated Produce</i>	USDA- FAS	\$ 1,000	\$ 1,000	PI/Project Mgr	
2003/05	National Center for Electron Beam Food Research, <i>supporting outreach and communications</i>	USDA- CSREES	\$ 251,000	\$ 102,000	Co-PI/Project Mgr	S. Pillai and M. McLellan
2003-06	Improving Safety of Complex Food Items with Electron Beam Technology w/ Educator and Food Industry Training	USDA- CSREES	\$ 1,060,000	\$ 263,000	Co-PI/Project Mgr	R. Moreira and E. Castell-Perez
2003	<i>Biotechnology Innovations and Issues. New Mexico Agricultural Experiment Station</i> (Travel Grant)	New Mexico State University	\$ 700	\$ 700	Co-PI	
1997/04	<i>Fund for Excellence in Agricultural Education Annual Campaign</i>	Agriculture and Food Industry	\$ 55,000	\$ 55,000	PI/Project Mgr	
1997	<i>American Seed Trade Association Forum on Agricultural Biotechnology</i> (Travel Grant)	Crosbyton Seed Company	\$ 1,000	\$ 1,000	Co-PI	
1997/98	<i>Processing the Fabric of Our Lives</i>	Texas Cotton Ginners Association	\$ 10,000	\$ 10,000	PI/Project Mgr	D-9 D-4 D-2 Medina Co.
1992/2004	<i>Texas AgriFood Master Program</i>	AgriFood Education Council, Inc.	\$ 503,000	\$ 503,000	PI/Project Mgr	Bexar Co.
1992	<i>FoodSafe point of purchase education</i>	HEB Grocery Company	\$ 30,000	\$ 15,000	CoPI/Project Mgr	J. Denton
1991/94	<i>Texas AgriFood Master Program</i>	Agriculture and Food Industry	\$ 37,000	\$ 37,000	PI/Project Mgr	H. Holdsworth
1989	<i>Cotton Price Risk Management and Marketing Blitz</i>	Agriculture Finance Businesses	\$ 5,000	\$ 5,000	PI/Project Mgr	Hockley Co. Agribusinesses
1983-88	<i>Beef Cattle Genetic Improvement Marketing Strategies</i>	Crosby County AI Breeders Association	\$ 49,000	\$ 49,000	PI/Project Mgr	Mickey Givens
1983	<i>Beef Cattle Artificial Insemination and Palpation School</i>	Crosby County AI Breeders Association	\$ 32,500	\$ 32,500	PI/Project Mgr	Bob Adams

1982	<i>Estrous Synchronization Regimes using Prostaglandin F2A in Beef Cattle</i>	F. Moore and D. Vestal Ranchers	\$2,500	\$ 2,500	PI/Project Mgr	Vestal Cattle Co. Frank Moore Farms
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Internally Funded Contracts and Grants

<u>Duration</u>	<u>Title</u> <i>(outreach component in italics)</i>	<u>Sponsor</u>	<u>Total Funding</u>	<u>Vestal Share</u>	<u>Role</u>	<u>Other Collaborators</u>
2007-08	Emergency Management Professional Development and Program Implementation	AgriLife Extension	\$ 11, 650	\$ 11,650	PI	
2007-09	Emergency Management Graduate Extension Assistant	AgriLife Extension	\$ 28,766	\$ 28,766	PI	
2005	<i>U.S./Korea Biotechnology Bioethics Conference Planning</i> (Travel Grant)	TAMU VP for Research	\$2,200	\$2,200	Co-PI	Rick Nader Fuller Bazer
2004	National Agricultural Biotechnology Council (Training/Travel Grant)	COALS	\$1,128	\$1,128	TAMUS Representative	Fuller Bazer
2004	Biotechnology Industry Organization Annual Meeting (Training/Travel Grant)	TAES/ Animal Science	\$600	\$600	TAMUS Representative	Fuller Bazer
2003	Educational Materials Grant: Electron Beam 21 st Century Food Technology, Self-study Guide	TAES	\$ 5,000	\$ 5,000	PI/Project Mgr	S. Pillia, P. Van Lannen
2003	Student Worker Grant	TAES	\$ 6,160	\$ 6,160	PI/Project Mgr	S. Pillai
2002	Texas Medical Association Report on Genetically Modified Foods (re-printing)	TAES/COALS Bazer	\$750	\$750	TAMUS Representative on TMA Task Force	
2002	Explore the Genetic Frontiers, TCE/TAES Publication	TAES/Center for Nutrition, Health & Food Genomics/ Walzem	\$ 5,000	\$ 5,000	PI/Project Mgr	
2002	Food Irradiation Training for Texas AgriLife Extension Service FCS Agents	TAES/ Center for Food Safety	\$1,000	\$1,000	PI/Project Mgr	B. Thompson, F. Dainello
2001/02	Biotechnology Teacher Workshop	TAES/ Institute of Food Science and Engineering	\$6,000	\$6,000	PI/Project Mgr	D. James
1992/94	Texas AgriFood Masters Program	TAEX/ Carpenter	\$10,000	\$5,000	Co-PI/Project Mgr	R. Devin

Unfunded Proposals

<u>Duration</u>	<u>Title</u> <i>(outreach component in italics)</i>	<u>Sponsor</u>	<u>Total Funding</u>	<u>Vestal Share</u>	<u>Vestal Role</u>	<u>Collaborators</u>
2003	eBeam Technology for Sea Food Safety in Oysters, <i>Food Industry Training</i>	State of Texas-ATP	\$ 214,284	\$ 80,000	Co-PI	J. Schwarz Hillman Oysters Unisource, Inc.
2003	<i>Educating Fruit and Vegetable Growers and Processors on eBeam Food Safety Technology</i>	SureBeam, Inc.	\$ 97,060	\$ 97,060	Co-PI/ Project Mgr	F. Dainello
2003	<i>Educating Food Service Professionals on eBeam Food Safety Technology</i>	SureBeam, Inc.	\$ 49,920	\$ 49,920	Co-PI/	B. Thompson
2003	<i>Food Regulatory Professional's Training on Phytosanitary Applications of Food Irradiation</i>	Argon National Laboratory	\$ 110,00	\$ 110.00	PI/ Project Mgr	G. Hallman, ARS
2003	<i>Educating Texas' Consumers on eBeam Food Safety Technology</i>	SureBeam, Inc.	\$ 46,240	\$ 46,240	Co-PI	B. Thompson
2003	<i>USDA-FSIS Food Irradiation Inspector Training Grant</i>	USDA-FSIS	\$ 111,179	\$ 111,179	PI	S. Pillai J. Maxim L. Braby
2003/04	<i>Irradiation Rule Discussion and Phytosanitary Applications Irradiation Certification Course</i>	USDA-FAS	\$ 376,663	\$ 376,663	PI	G. Hallman L. Braby J. Maxim L. Zettler
2003/04	<i>ISGA-SOS Circuitry and Salinity-Tomato Plant Genome Project-Enhancing Technical Competencies of Extension Educators Regarding Plant Genomics</i>	National Science Foundation	\$2.3 M	\$ 490,471	Co-PI	J. Zhu, U. AZ M. Binzel
2003-06	<i>Communicating Biotechnology by Bridging Higher Education Scientist, Extension Educators and Secondary Science Teachers in Texas</i>	Council for Biotech Information	\$1.8 M	\$1.8 M	Co-PI, Project Mgr	B. Higginbotham D. James
2002	<i>Biotechnology Workforce Development</i>	National Science Foundation ATE	\$ 1.2 M	\$ 50,000	Collaborator	Montgomery College Austin Community College
2002/04	<i>Electron Beam Food Safety Research to Eliminate Pathogens in Oysters-Food Service Industry Training</i>	Sea Grant Gulf of Mexico Oyster Improvement Program	\$ 214,000	\$ 80,000	Co-PI	J. Schwarz
2001/05	<i>Communicating Biotechnology by Bridging Higher Education Scientists and Community Educators</i>	USDA-IFAFS	\$ 4.1M	\$ 4.1M	Co-PI/ Project Mgr	M.R. McLellan D. James C. Santerre, Purdue

						J. Smith, TX Tech
2001/05	Critical and Emerging Issues: BSE and Prion Protein Gene – <i>Implementation of National Beef Industry Educational and Planning Conferences</i>	USDA-IFAFS	\$4.9M	\$ 858,000	Co-PI	J. Piedrahita G. Adams A. Vedlitz J. Sacchettini M. Westhusin
2001	MGET: Animal Biotechnology and Genomics – <i>TAMU G7-G8 Internships Placements with Texas AgriLife Extension Service AGNR Agents and Extension Outreach and Curriculum Development on Animal Biotechnology and Genomics</i>	USDA-IFAFS	\$2.2M	\$ 41,000	Collaborator	J. Womack F. Bazer J. Derr J. Kantz J. Piedrahita S. Safe M. Westhusin

PROFESSIONAL IMPROVEMENT ACTIVITIES (1995-2008)

Texas Homeland Security Conference

San Antonio, TX Dec 3-6, 2007
San Antonio, TX Nov 29-Dec 1, 2006

Southern Region Network for Program Leaders Conference

Louisville, KY Aug 28-30, 2007

Texas Cattle Feeders Association

Amarillo, TX Sep 4-6, 2007 High Plains Food Animal Industry 2007 Conference

Texas Agriculture Forum

Austin, TX June 9, 2008

Executive Summit on Business Continuity in Emergencies

Austin, TX Feb 22, 2007

Texas Forest Service Incident Command System

Granbury, TX April 28, 2008
Granbury, TX Feb 5, 2008

Governor's Division of Emergency Management Workshop

Austin, TX	June 24-25, 2008	State Hurricane ROC Drill
Galveston, TX	June 5-6, 2008	Texas Hurricane Conference
Austin, TX	Nov 16, 2007	Wildfires Workshop
Austin, TX	June 4-7, 2007	State Hurricane Exercise
Tyler, TX	Apr 17, 2007	Tyler Hub Hurricane Exercise
Corpus Christi, TX	Apr 11, 2007	Corpus Christi Hub Hurricane Exercise
Austin, TX	Apr 24, 2007	State Hurricane Exercise Planning
Austin, TX	Mar 8, 2007	SOC Planning
Austin, TX	Feb 15, 2007	SOC Planning
Austin, TX	Oct 1, 2006	SOC Planning
San Antonio, TX	Nov 29, 2006	SOC Planning

National EDEN and Foreign Animal and Zoonotic Disease Defense

EDEN	Clemson, SC	Jan 8-10, 2008
EDEN	Hilo, HI	Nov 5-9, 2007
EDEN	Las Cruces, NM	Apr 2, 2007
EDEN	Harrisburg, PA	Mar 26, 2007
Risk Mgmt	Nappa, CA	Jan 24, 2007
Producer Education	Lubbock, TX	Oct 7, 2006
Carcass Disposal	Austin, TX	Nov 14, 2006
Carcass Disposal	Washington, D.C.	Dec 4, 2006
EDEN	Nashville, TN	Oct 31, 2006

Texas A&M AgriLife Faculty Conferences

College Station, TX – Jan 8-11, 2007
College Station, TX – Jan 9-12, 2006
College Station, TX – Jan 10-13, 2005
College Station, TX – Jan 6-7, 2004
College Station, TX – Sep 11, 2003
College Station, TX – Jan 7-10, 2003
College Station, TX – Aug 12-15, 2002
College Station, TX – Jan 8-10, 2002
College Station, TX – Jan 9-11, 2001
College Station, TX – Jan 11-13, 2000
College Station, TX – Jul 14-16, 1999
College Station, TX – Jul 7-10, 1998
College Station, TX – Jan 13-16, 1998
College Station, TX – Apr 21-24, 1997
College Station, TX – Oct 28-31, 1996
College Station, TX – Apr 22-25, 1996
College Station, TX – Oct 30-Nov 2, 1995

Texas Extension Specialists Association Annual and State Board* Meetings

Fredericksburg, TX – Jul 31 – Aug 2, 2005
Galveston, TX – Jul 25-27, 2004
Brownwood, TX – Dec 9-10, 2003*
San Antonio, TX – Jul 28-30, 2003
Brownwood, TX – Apr 29-30, 2003*
Brownwood, TX – Dec 10-11, 2002*
Austin, TX – Jul 29-31, 2002
Brownwood, TX – May 7-8, 2002*
Brownwood, TX – Dec 4-5, 2001*
Corpus Christi, TX – Jul 22-25, 2001
San Antonio, TX – Jul 31-Aug 2, 2000

Institute of Food Technologists Annual Meetings* and Government Relations Meetings

Chicago, IL July 28-29, 2007*
 Chicago, IL – Oct 24-25, 2006
 Orlando, FL – July 19-24, 2006*
 Washington, D.C. – May 2-3, 2006
 Chicago, IL – Oct 22-23, 2005
 Chicago, IL – May 23, 2005
 New Orleans, LA – Jul 16-19, 2005*
 Washington, D.C. – Oct 26, 2004
 Chicago, IL – Oct 23-23, 2004
 Las Vegas, NV – Jul 14-17, 2004*
 Chicago, IL – Oct 25-26, 2003
 Chicago, IL – Jul 12-16, 2003*
 Chicago, IL – Oct 26-27, 2002
 Anaheim, CA – Jun 15-18, 2002*
 New Orleans, LA – June 23-28, 2001*
 Dallas, TX – Jun 10-14, 2000*

NASULGC LEAD 21

Indianapolis, IN – Jun 11-15, 2006
 Kansas, City, KS – Oct 18-21, 2006
 Washington, D.C. – Feb 26-Apr 2, 2007

National Agricultural Education Research Conference

San Antonio, TX – May 27-29, 2005
 Orlando, FL – Dec 11-13, 1999
 New Orleans, LA – Dec 8-10, 1998
 Las Vegas, NV – Dec 8-10, 1997

Texas AgriLife Teachers Conference: Biotechnology Opportunities and Challenges

Dallas, TX – Jul 22, 2006
 Dallas, TX – Aug 2, 2005
 Dallas, TX – Aug 1, 2004
 Dallas, TX – Jul 31, 2003
 Dallas, TX – Jul 27, 2002
 Dallas, TX – Jun 5, 2001

Floating Classroom Curriculum and Experiential Education Review.

Matagorda Bay, TX –Nov 12, 2002

Silliker Food Safety & Quality Solutions

International HACCP Certification Program

New York, NY – Jun 21-23, 2005

National Restaurant Association Annual Meetings & NRA Show

Chicago, IL – May 23-24, 2005

National Association of State Universities and Land-Grant Colleges
National Futuring Conference
Roanoke, VA – May 15-18, 2005

Texas Food Processors Association Annual Meetings
San Antonio, TX – Apr 26-27, 2005

Association for International Agricultural and Extension Education
San Antonio, TX – May 26-28, 2005

National Agricultural Biotechnology Council Annual Meetings
Toronto, OT – Jun 12-14, 2004
Orlando, FL – May 11-13, 2003

University of Texas at Dallas
Strategic Partnership for Research in Nanotechnology.
Dallas, TX – Nov 19, 2004.

National Academies Board on Agriculture and Natural Resources,
Global Challenges for Guiding and Managing Biological Technologies
Washington, DC – Oct 26-27, 2004

Food Update Foundation Annual Meetings
Miami, FL – Apr 25-27, 2004

USDA-FAS Horticulture & Tropical Fruits and USDA-APHIS Plant Protection &
Quarantine Divisions
Framework of Equivalency for Phytosanitary Applications of Irradiation.
Washington, DC – Mar 24, 2004

Texas A&M Galveston Seafood Safety Laboratory
Seafood Safety Laboratory Tour
Galveston, TX – Jul 16, 2004

Texas Association of Extension 4-H Agents
Amarillo, TX – Aug 3, 2001
S. Padre Island, TX – Aug 2-3, 2003

Intertech USA
Food Irradiation 2002.
Dallas, TX – Feb 13-14 2002

University of North Carolina Keenan-Flagler Graduate School of Business
Executive Certification Program: Management of Innovation in Agribusiness.
Chapel Hill, NC – Feb 5-8, 2002

Texas Agricultural Summit Initiative

- Austin, TX – Mar 2005 *Entrepreneurship Summit*
- Austin, TX – May 2002 *Agricultural and Food Biosecurity*
- Austin, TX – Sep 1999 *Biotechnology for Food, Fiber, and Health*
- Dallas, TX – Dec 1995 *Food Safety, Health and Nutrition*
- College Station, TX – Nov 1993 *Forces Shaping the Future of Ag & NR in Texas*

Pew Initiative on Food and Biotechnology

- Biotech in the Barnyard*
- Dallas, TX – Sep 26, 2002

U.S. Food and Drug Administration & Texas Department of Health

- Food Safety and Food Biosecurity Symposium*
- Dallas, TX – Sep 27, 2002

Hillman Shrimp and Oyster Food Processing Plant

- Seafood Safety and Industry Tour*
- Dickens, TX – Nov 19, 2002

International Food Information Council

- Biotechnology Media Relations.*
- Denver, CO – Dec 12-13, 2002
- News Journalists Knowledge, Attitudes and Perceptions Regarding Food Biotechnology*
- College Station, TX – Nov 7, 1997

Southern Association of Agricultural Scientists

- Agricultural Education and Agricultural Communications Sections*
- Fort Worth, TX – Jan 28-29, 2001
- Louisville, KY – Jan 31-Feb. 1, 2000
- Memphis, TN – Feb 1-2, 1999

Texas Medical Association

- Task Force on Safety of Genetically Modified Foods*
- Austin, TX – Jun 20, 2001
- Austin, TX – Sep 11, 2001
- Austin, TX – Nov 8, 2001
- Austin, TX – Jan 22, 2002
- Austin, TX – Feb 17, 2002
- Austin, TX – Mar 5, 2002
- Dallas, TX – Apr 17-18, 2002

Council of Agricultural Science and Technology

- CAST Biotechnology Communicators.*
- St. Louis, MO – Mar 21, 2001

Iowa State University

Extension's Role in Biotechnology Education.

Ames, IA – Oct 10-12, 2000

Southern Region Program and Staff Development Conference

Multi-state Planning.

Atlanta, GA – Apr 26, 2000

PROFESSIONAL AFFILIATIONS

Association for International Agricultural and Extension Education 2005-present

Bryan/College Station Chamber of Commerce Agribusiness Council 1996-present

National Association of Epsilon Sigma Phi 1985 – present

Texas Alpha Zeta member of Epsilon Sigma Phi 1985 - present

Texas Extension Specialists Association (TCESA), 2000-present

Institute of Food Technologists (IFT), 2000-present

Alamo Section of Institute of Food Technologists, 2000-present

The Greater San Antonio Chamber of Commerce Economic Analysis Panel 1990-1994

Downtown Rotary Club of San Antonio 1990-1994

National Association of County Agricultural Agents (NACAA), 1978-94

Texas County Agricultural Agents Association (TCAAA), 1978-94

RESEARCH ACTIVITIES (AgriLife Extension Program Evaluations)

2005 – present – 0% AgriLife Research Appointment

1994 – 2005 – 25% AgriLife Research Appointment

1977 – 1994 – 0% AgriLife Research Appointment

Program Statement:

Extension and outreach programs are incomplete if program outcomes are left unmeasured. Dr. Vestal performs applied educational research to evaluate his outreach programs for AgriLife Extension to add value and direction to his efforts and contribute to the body of knowledge in Extension education. Certain metrics are essential to one's program evaluation; therefore, Dr. Vestal employs the concepts and principles of agricultural education, especially those found in the tenets of *diffusion theory* and the *social processes of technological change*. This educational research has added value to the experience his students received when taking *AGED 640 Methods of Technological Change* (taught 2003-2006) as well as all Extension audiences. Dr. Vestal's investigations contribute to the knowledge-base of agricultural and extension education through descriptive and experimental research that aims to:

- determine benchmarks for point-in-time and longitudinal program impact evaluation.
- describe target audiences in terms of knowledge, attitudes, perceptions and behavior regarding biotechnology, food science and agricultural awareness.
- measure effectiveness of education methods, delivery strategies and modules.
- identify exemplary educational delivery strategies that enhance learning and advance adoption of innovative technologies or methods.
- disseminate findings of exemplary teaching, learning, and change process research and methods among food and agricultural communicators, educators and leaders.

Summary of Major Achievements:

Early Detection/Rapid Response: Connecting Underserved Livestock and Fowl Owners with Veterinary Information, Degenhart, S. H., Koch, J. and Vestal, T.A., (2007-08).

The potential for a major foreign animal disease to occur in the U.S. is a serious threat. It is believed that the 2003 Exotic Newcastle Disease (END) outbreak, which decimated California's poultry industry, was introduced from Mexico into a backyard flock and spread geographically for nearly six months before diagnosis and detection occurred. Early detection and reporting by underserved livestock and fowl owners could have significantly mitigated the resultant damage from the California END outbreak.

In order to address a Department of Homeland Security Food and Agriculture Infrastructure Protection initiative aimed at identifying best-practices for underserved livestock and fowl owner identification and communication, Dr. Vestal planned and administered an investigation funded by the National Center for Foreign Animal and Zoonotic Disease Defense (FAZD). Three multi-county clustered focus groups (rural, urban and suburban clusters) consisting of a purposive sample of county Extension agents (CEA) and local feed retailers were exercised to accomplish the program objectives. Transcripts of each focus group meeting were sent to participants for review and approval. Analysis of focus group transcripts was conducted using the constant comparative method to determine themes in focus group responses.

Based on the results of the focus groups, a hypothesis has been formed that a national network linking the Department of Homeland Security (DHS), Department of Agriculture (USDA), Cooperative Extension Programs (CEP), local feed retailers and their customers through the existing CEP network could be activated to serve and mitigate risks to the nation's agricultural infrastructure.

A 6-state (AR, KY, NC, MT, TN, & TX) County Animal Security and Health Network (CASHN) pilot study was performed in 2007-08 involving 43 generally rural counties and 108 feed retailers, for a project mean of 2.5 feed retailers per county. Feed retailers reported an average of 318 non-commercial livestock and poultry owners (NLPO) frequented their establishment each week. Results from seminars targeting individual non-commercial livestock and fowl owners also indicated only 5% (n = 176) visited the veterinarian two to three times a month or more. Whereas 42% (n=1478) of individuals indicated visiting a feed store two to three times a month or more. State Veterinarian-initiated alert messages averaged 2.1 days (49.8hrs) to reach feed retailers through the CASHN system. CASHN would provide state veterinarians' the potential to reach 795 NLPO per county through local feed retail establishments within one work week of a message receipt.

Effectiveness of Train-the Trainer Curriculum for Foreign and Emerging Animal Diseases,
Degenhart, S.H. and Vestal, T.A., (2007).

Dr. Vestal planned and administered an experimentally designed investigation to measure the impact of an educational curriculum entitled *Foreign and Emerging Animal Diseases Handbook: Train-the-Trainers Curriculum*. This curriculum was intended for County Extension Agents (CEAs) to educate individual livestock owners in biosecurity and the early detection and reporting of Foreign and Emerging Animal Diseases (FEAD). The curriculum was divided into eleven chapters and covered topics such as: *Epidemiology of Foreign and Emerging Diseases; Foreign Animal Diseases; Emerging and Endemic Animal Diseases; Biosecurity Best Management Practices, and State of Texas Foreign and Emerging Animal Diseases Response Plan*.

Regional Extension Specialists attended an in-depth, one-day workshop to receive curriculum training. Within four weeks these Specialists conducted curriculum training for their regional CEAs. CEAs were then expected to include stakeholder FEAD curriculum training in their yearly plans of work. Pre and post-curricula knowledge tests were administered at both Specialist and Agent trainings. Objectives of these tests were: 1) determine if curricula increased participants' knowledge of FEAD and 2) determine if location (i.e. trainers) significantly affected the rate of change in CEA knowledge pre to post- FEAD curriculum.

Analysis indicated a statistically significant ($\alpha = 0.05$) increase in overall mean knowledge pre to post-FEAD curricula for both Specialists and CEAs. Specialists and CEAs pre-FEAD curricula knowledge was close (1.4 percentage point difference), but Specialists demonstrated a much greater (16.3 percentage points) increase in knowledge than CEAs (6.3 percentage points). This may be due to Specialists' immediate accountability for training CEAs, whereas CEAs were not held immediately accountable to teach the curricula. Repeated Measures analysis indicated that location of training (i.e. difference in trainers) did not have a significant effect on rate of change of CEAs' knowledge.

Experimental Design to Measure of Outcomes in Biotechnology Education 1998

Dr. Vestal planned and administered an experimentally designed investigation to measure the impact of an educational publication entitled, “Biotech Foods: The First Harvest,” on three constructs—knowledge, attitudes and perceptions of news journalists. Using an investigator-designed instrument the study compared responses of journalists who had been exposed to the publication to a control group. The journalists worked for newspapers organizations in metropolitan markets in the United States. The findings are published in the *Journal of Agricultural Education* (Vestal & Briers, 2000) and *HortScience* (Vestal & Briers, 1999) to ensure dissemination to both social and biological science communities. These findings were also published in proceedings of research meetings (Vestal & Briers, 1999) and were presented at numerous agricultural research and stakeholder meetings during 1998-2001.

Descriptive Research: Needs Assessment for Biotechnology Education 2001-2003

To improve understanding of the educational needs of county extension agents throughout Texas, Dr. Vestal initiated a survey. Opinion leaders among county extension agents were targeted; therefore, the delegates registered to attend the annual meetings of Texas Association of Extension 4-H Agents, Texas County Agricultural Agents Association, and Texas Extension Association of Family and Consumer Sciences completed an instrument designed to assess the professional development needs of county extension agents. To understand these needs, the inquiry described the technical competencies, attitudes, and perceptions regarding food and agricultural biotechnology. The findings of this survey were used by Dr. Vestal to plan appropriate professional development programs for county extension agents and to publish a series of five consumer education brochures called “Explore the Genetic Frontiers” (Vestal, et al, 2002-03).

Program Impact: Food Safety Workshop for Extension FCS Agents 2001-2004

To measure educational effectiveness of teaching strategies used during a March 2002 workshop Dr. Vestal and Dr. Britta Thompson designed pre-/and post-test instruments aimed at measuring changes in participant knowledge, attitudes and perceptions. It was discovered that certain delivery strategies used during the workshop were more effective at enhancing the extension agents’ (a) scientific and technical competencies through laboratory settings at the Electron Beam Food Research Facility, (b) communications competencies through interactive digital video, radio, and press workshops, and (c) understanding of consumer and food marketing issues through seminars on public issues research and case studies of quality assurance experiences in industry. These findings were published in the *Journal of Food Science Education* (Thompson, Schlielack & Vestal, 2004).

Program Impact: Professional Development Workshops on Food Safety 2003-2005

Dr. Vestal assembled a team of extension specialists and food scientists to measure the impact of two educational workshops targeting family and consumer science teachers and produce industry professionals. The findings and contrasts from the pre-test, post-test and post-test follow-up indicate that the Feb and Aug 2004 workshops significantly improved participants’ teaching and communications competencies regarding safety of food irradiation and beliefs about their knowledge of the technology compared to those held before the workshop. Changes in teaching and communications behavior were revealed supporting the theory regarding the relationship between technical competencies and what educators teach. To disseminate the

findings of these educational strategies among other food science educators, two refereed journal articles (1) *Family and Consumer Sciences Research Journal* (Phelan, et al, 2005) and (2) *Journal of Family and Consumer Sciences Education* (Thompson et al, 2005) are currently in review. Additionally, an abstract was submitted and accepted for publication in *HortScience* (Vestal et al, 2005) and a professional paper was presented at the American Society of Horticulture annual meetings in Las Vegas in July 2005.

Measurement of Outcomes in Agricultural Awareness - 1995-1998

An Agricultural Science Fair event features a dozen educational stations/modules designed to supplement fourth-grade curriculum based on Texas Education Agency's essential knowledge and skills requirements. Educational modules are designed specifically for instructors to guide pupils through lessons that experientially explore various facets of the State's food, fiber, forestry, and natural resources systems. Pre-/and post-test instruments are employed by fourth grade teachers to benchmark and measure knowledge gained from concepts presented during Agricultural Science Fair events in six counties. Data collected from 2,600 and 2,900 students, during 1995 and 1998 respectively, document the educational effectiveness of the student experiences contrasting rural, suburban, and urban environments. This educational research was conducted over a four-year period by numerous graduate students (Pullen, L., Skaggs, J., & Blackburn, D.A.) under the supervision of Dr. Vestal. The results were published the *Journal of Extension* (Blackburn, 1999).

Assistance to Junior Faculty and Graduate Students 1999-2005

Dr. Vestal continually provides ideas and research assistance to junior faculty and graduate students to help them develop grant proposals and papers for professional and research meetings. Dr. Vestal directed the research of three graduate students as chair and 16 graduate students as committee member or committee chair. Additionally, he hosted one International Atomic Energy Agency Fellow (NRI post-doc) from Turkey who transcribed food safety and food irradiation educational materials to make a series of eleven MS PowerPoint presentations.

TEACHING ACTIVITIES

2006 – present – 0% College of Agriculture and Life Sciences Teaching
1994 – 2006 – 25% College of Agriculture and Life Sciences Teaching
1977 – 1994 – 0% College of Agriculture and Life Sciences Teaching

Program Statement:

Although Dr. Vestal does not currently hold a teaching appointment he continues to advise and teach both undergraduate and graduate students who seek academic credit for self directed studies and Extension internships related to his field of work in AgriLife Extension. He is currently investigating the formation of an AgriLife Extension work group to design a formal academic program that will provide practical field experience for students interested in Extension as a profession.

Dr. Vestal's primary objective has been to teach social science principles and theories of extension education to influence team building, leadership and educational delivery strategy skills. His influence on undergraduate and graduate students has greatly enhanced the department's ability to prepare young professionals for leadership, education, and management positions in agricultural and educational organizations. He incorporated his rural and urban extension experiences into two undergraduate courses that introduced students to a diversity of agricultural education skills and careers pathways. In 2003-2008 Dr. Vestal's teaching objectives remain congruent with his primary objectives but became more specialized toward graduate teaching on the tenets surrounding "diffusion theory," more specifically, how one becomes an effective agent of change in a social system. Dr. Vestal's interests in diffusion theory and technology transfer are integral to his extension education and service activities at the departmental, college, state, national, and international levels.

Dr. Vestal redesigned a capstone graduate course, *AGED 640 Methods of Technological Change*. The course introduces future change agents to the processes by which technological innovations are adopted and diffused among people with emphasis on the dynamics of the change process. He attracted a diversity of students from several colleges across campus. He redesigned *AGED 301 Topics in Agricultural Leadership and Education* for students who wish to enter careers relating to human capacity building in food, agricultural, and natural resources systems. He developed a curriculum for a new experiential education course *AGED 489 Special Topics in AgriFood Industry Leadership*. This course engaged teams of undergraduates with community, school, and agribusiness leaders to sharpen student leadership, team building, and extension education skills.

Dr. Vestal has served as guest lecturer in Veterinary Anatomy and Public Health, Food Microbiology, Human Nutrition, and Agricultural Journalism classes. He serves as a graduate faculty member in Agricultural Leadership, Education and Communications at Texas A&M University and Agricultural Education and Communications at Texas Tech University. He also serves on the intercollegiate graduate faculty of Food Science and Technology at Texas A&M University.

Chronological Listing of Courses Taught and Enrollment:

AGED Course	Enrollment by Academic Year												Sub Total
	'96	'97	'98	'99	'00	'01	'02	'03	'04	'05	'06	'08	
489 AgriFood Industry Leadership	25	28	24										79
301 AI Leadership & Education				122	408	244							774
640 Methods of Technological Change								11	14	13	8		46
485 Directed Studies		2	1	1		8			1			2	16
685 Directed Studies					1		2	1		2			6
Total													921

Description of Classes Taught:

AGED 640 2003-2006 Course title: *Methods of Technological Change*

Much of Dr. Vestal's professional career in Texas AgriLife Extension Service can be characterized by the discipline described in the textbook used in this course, *Diffusion of Innovation*, 5th ed (Everett M. Rogers, 2003). He required that his graduate students investigate and study differences and relationships among cultural, social, and technological change. Students gain an understanding of the theoretical processes by which technological innovations are adopted and diffused among people, and the dynamics of the change process. They learn that relative rate of adoption is defined by characteristics of innovations and the characteristics the social system in which the innovation is being introduced. Graduate students interested in a professional career as a change agent with emphasis on technological and social change have been drawn to this course from numerous departments and colleges across Texas A&M University.

Dr. Vestal uses a variety of methods to engage adult learners by developing subgroups/communities of learners for discussion of diffusion theory experiences with practical applications. Within a class period, Dr. Vestal attempts many delivery strategies and encourages students to participate and share their views and life experiences. He uses lecture, on-line modules, and exercises, visuals, readings, student presentations, group activities, role-play, case studies, scenarios, and Q&A sessions to deliver material in class. Dr. Vestal incorporates the use of various instructional technologies into the class, including Internet, web course tools, web sites, streaming media, and video. His classes may sometimes be under an oak on the campus greenways or on tour of a technology-oriented research facility.

Dr. Vestal's students are evaluated based on both individual and group work. Students take examinations based on a synthesis of lecture, readings, classroom presentations, and work in groups.

AGED 640 Course Objectives

Upon completion of AGED 640, graduate students will...

- understand the differences and the relationships existing among cultural, social, and technological changes.
- understand the processes by which technological innovations are adopted and diffused among people.
- understand the dynamics of the change process.
- know how to apply methods of planning and implementing technological change.
- know how to administer event implications and consequences networking and futuring exercises to anticipate and predict the consequences of planned change.

AGED 301 1999-2001 Course title: *Topics in Agricultural Leadership and Education*

Dr. Vestal's special interest in this course was to reach students who planned to enter a career in the broad fields of leadership and education in agriculture. The course introduces undergraduates to seven primary contextual applications (career pathways) of agricultural educators, leaders, and communicators including: (1) Extension Education, (2) Agricultural Communications, (3) Agricultural Science Teaching, (4) International Agricultural Development, (5) Leadership Education, (6) Distance Education/ Technology Assisted Learning, and (7) Technological Change.

AGED 301 students are introduced to six contemporary knowledge bases advocated by agricultural educators. These knowledge bases include: (1) Planning and Needs Assessment, (2) Learner-centered Instructional Design, (3) Educational Delivery Strategies, (4) Research, Measurement and Analysis, (5) Evaluation and Accountability and (6) Planned Change.

Dr. Vestal uses a variety of methods to deliver material and engage students. He uses various delivery strategies and encourages students to participate and share their views. He uses lecture, student presentations, student discussion groups, group activities, role-play, on-line threaded discussions, case studies, and question-and-answer sessions to deliver material in class. He incorporates the use of various instructional technologies into the class, including Internet, web course tools, web sites, and streaming video.

Dr. Vestal's students are evaluated based on both individual and group work. Students take examinations based on a synthesis of lecture, readings and team work in one of the seven career pathways mentioned above.

Prior to this course, many students have little knowledge of a specific career pathway; therefore, sharing principles, theories, techniques, and applications for the seven contextual applications and essential knowledge bases needed to succeed liberates the students in career choice and adoption of their own guiding principles.

AGED 301 Course Objectives

Upon completion of the course students will be able to

- describe professional career settings (*contexts*) in which agricultural education and leadership are carried out.
- Describe and apply skills (*knowledge bases*) necessary for successful careers in the professional.
- integrate and apply competencies into a working model for careers in agricultural and leadership education.
- assist educational, agriculture and life science organizations determine their sense of purpose, deal with change, and improve effectiveness and efficiencies through principles and applications learned in this course.
- use theories, techniques, and applications learned in this course to help agricultural/life science organizations achieve strategic objectives.

AGED 489 1996-98 Course title: *Special Topics in AgriFood Industry Leadership*

Dr. Vestal developed this new course and developed interactive teams of undergraduate students to introduce them to Extension education methods concerning contemporary agriculture and food industry issues. In the class students acquire specific managerial competencies needed to assume leadership roles within educational, communications, agricultural and life science organizations. Students develop their skills in curriculum design and delivery strategies targeting youth audiences.

Students are evaluated based on both individual and group work via examinations based on a synthesis of lecture and readings. Although this course has not yet been added to the regular offerings of the Department, it remains in the portfolio of offerings and ready when called upon again.

AGED 489 Course Objectives:

Upon completion of the course students will be able to...

- understand the educational principles and concepts used by Cooperative Extension.
- identify major leadership challenges currently facing organizations and managers in agricultural and life science organizations.
- identify contemporary food and agricultural issues and create a public forum for education on these issues.
- understand the strategic importance of leadership skills within agricultural and educational organizations.
- use leadership and human resources principles, theories, techniques, and applications to help an agricultural/life science organization achieve its strategic objectives.
- identify and establish collaborative relationship with stakeholders and public educational institutions.

Summary of Teaching Assignments:

(A= Spring; B=Summer; C=Fall)

Academic Year 2008

- 08B ALEC485 *(1hr) Directed Studies in Agricultural Leadership, Education and Communications*
Jeff Lucas, ALEC, Adult Education
- 08B ALEC485 *(3hr) Directed Studies in Agricultural Leadership, Education and Communications*
Dustin Biela, ALEC, Principles of Extension Education

Academic Year 2006

- 06A AGED 640 *Methods of Technological Change*
(3hrs) 8 Graduate Students

Academic Year 2005

- 05A AGED 685 *(3hrs) Directed Studies in Agricultural Education*
Kimber Welch, AGED
Financial Development for Higher Education Fund For Excellence in Agricultural Awareness
- 05A AGED 640 *Methods of Technological Change*
(3hrs) 13 Graduate Students
- 05 A AGED 685 *(3hrs) Directed Studies in Agricultural Education*
Jeff Lucas, AGED
On-line Curriculum Development-Food Safety

Academic Year 2004

- 04A AGED 485 *(3hrs) Directed Studies in Agricultural Communications*
Misty Wilburn, Ag Journalism
Food scientist interviews and science writing
- 04A AGED 640 *Methods of Technological Change*
(3hrs) 14 Graduate Students

Academic Year 2003

- 03A AGED 640 *(3hrs) Methods of Technological Change*
11 Graduate Students
- 03B AGED 685 *(3hrs) Directed Studies in Learner-centered Instructional Design*, Jeff Lucas, AGED
Write and Pilot Test Food Safety Education Curriculum.

Academic Year 2002

- 02A AGED 685 (3hrs) *Directed Studies in Educational Delivery Strategies*
Brian Mosteller, Masters in Biotechnology Program.
Design and content development for food and agricultural
biotechnology education website.
- 02A AGED 685 (3hrs) *Directed Studies: Educational Delivery Strategies*
Emily Seringer, Masters in Biotechnology Program.
Design and content development for medical and
pharmaceutical biotechnology education website.

Academic Year 2001

- 01A AGED 301 (2hrs) *Topics in Agricultural Leadership and Education*
127 Undergraduate Students
- 01A AGED 485 (2hrs) *Directed Studies in Educational Delivery Strategies
and Instructional Design*
Alberto Chapa, AGED
Literature review and design and content development of
extension educational materials on biotechnology.
- 01A AGED 485 (2hrs) *Directed Studies in Educational Delivery Strategies
and Instructional Design*
Ann Jones, AGED,
Literature review and comparative environmental risk
assessments of conventional technologies and
biotechnologies used in production agriculture.
- 01B AGED 485 (3hrs) *Directed Studies*
Festus Resendez, AGED
Literature review and comparative risk assessment
regarding environmental, non-target species and human
health risks of conventional pre-plant incorporated soybean
and corn herbicides vs glyphosate herbicide.
- 01B AGED 485 (3hrs) *Directed Studies in Educational Delivery Strategies
and Instructional Design*
Janet Smaulley and Shannon Zwernamann AGED
Analyze website designs and content of reputable research
organizations. Design and present proposal for a TAES
website for Advanced Technology Advisory Council.

- 01B AGED 485 (3hrs) Directed Studies in Educational Delivery Strategies and Instructional Design.
Carol Hawkins, AGED/Ag Engineering
Design and content development for two Extension education brochures featuring *Glyphosate Herbicide Resistant Crops* and *Biotechnology and Texas' Biggest Crop-Cotton*.
- 01B AGED 485 (3hrs) Directed Studies in Educational Delivery Strategies and Instructional Design
Charles Tom Payne, AGED
Literature review, copy editing and web development for biotechnology education website.
- 01C AGED 301 (2hrs) *Topics in Agricultural Leadership and Education*
117 Undergraduate Students
- 01C AGED 485 (3hrs) *Directed Studies in Educational Delivery Strategies and Instructional Design*
Carol Hawkins, AGED/Ag Engineering
Design and content development for two Extension education brochures featuring U.S. regulatory and labeling environment for plant biotechnology.

Academic Year 2000

- 00A AGED 301 (2hrs) *Topics in Agricultural Leadership and Education*
126 Undergraduate Students
- 00B AGED 685 (3hrs) *Directed Studies*
Cindy Fortson, AGED
Data collection, statistical analysis and reporting scholarly work regarding extension educational programs on agricultural biotechnology.
- 00B AGED 301 (2hrs) *Topics in Agricultural Leadership and Education*
41 Undergraduate Students
- 00C AGED 301 (2hrs) *Topics in Agricultural Leadership and Education*
123 Undergraduate Students
- 00C AGED 301 (2hrs) *Topics in Agricultural Leadership and Education*
118 Undergraduate Students

Academic Year 1999

- 99B AGED 485 (3hrs) *Directed Studies in Educational Delivery Strategies and Instructional Design*
Jamie Sugg, AGED
Educational needs assessment, planning, and delivery strategy for fourth grade agricultural education module entitled "Biscuit Bingo" an experiential education module featuring mathematics and the perils of wheat farming.
- 99C AGED 301 (2hrs) *Topics in Agricultural Leadership and Education*
122 Undergraduate Students

Academic Year 1998

- 98A AGED 485 (3hrs) *Directed Studies in Educational Delivery Strategies and Instructional Design*
Jason Skaggs, AGED
Data collection, statistical analysis and reporting scholarly work regarding Ag Science Fair educational programs in rural, suburban and urban Texas.
- 98A AGED 489 (3hrs) *Special Topics in AgriFood Industry Leadership*
24 Undergraduate Students

Academic Year 1997

- 97A AGED 485 (3hrs) *Directed Studies*
Marla Rudd, AGED
Data collection, statistical analysis and reporting scholarly work regarding Ag Science Fair educational programs in rural, suburban and urban Texas.
- 97A AGED 485 (3hrs) *Directed Studies*
Joy Luedecke, AGED
Data collection, statistical analysis and reporting scholarly work regarding Ag Science Fair educational programs in rural, suburban and urban Texas.
- 97A AGED 489 (3hrs) *Special Topics in AgriFood Industry Leadership*
28 Undergraduate Students

Academic Year 1996

96A AGED 489

(3hrs) *Special Topics in AgriFood Industry Leadership*
25 Undergraduate Students

Student Evaluation of Teaching:

Student evaluations on eight common questions from ten classes taught 1996-2004 (n=457)

1. The instructor seemed well prepared for each class.	4.52
2. The instructor handles the class responsibly.	4.65
3. I would take another course from this professor.	4.36
4. The exams/projects were presented and graded fairly.	4.24
5. The amount of work and/or reading was reasonable.	3.64
6. I believe this instructor was and effective teacher.	4.32
7. Help was readily available for questions and/or homework.	4.47
8. I learned to apply concepts/principles from this course.	4.39
Overall Mean All Course Evaluations	4.32

Rating Scale: 1= Strongly Disagree, 2 = Disagree, 3 = Neutral, 4 = Agree, 5=Strongly Agree

Student Evaluations AGED 640 (3hrs) taught in 2003 and 2004

Scale: 1= Strongly Disagree, 2 = Disagree, 3 = Neutral, 4 = Agree, 5=Strongly Agree

#	Question	2003 11 Students	2004 13 Students	2005 13 Students
1.	The instructor seemed well prepared for each class.	4.80	4.85	4.67
2.	The instructor handles the class responsibly.	4.60	5.00	5.00
3.	I would take another course from this professor.	4.50	4.85	4.67
4.	The exams/projects were presented and graded fairly.	4.50	4.77	4.33
5.	The amount of work and/or reading was reasonable.	4.50	4.31	4.67
6.	I believe this instructor was an effective teacher.	5.00	4.69	4.50
7.	Help was readily available for questions and or homework outside of class.	4.75	4.62	4.50
8.	I learned to apply principles from this course to new situations.	4.75	4.69	4.83
9.	I developed the ability to solve real problems in this field.	4.50	4.85	4.83
10.	I developed greater awareness of societal problems.	4.50	4.54	4.83
11.	I developed skills needed by professionals in this field.	4.75	4.77	4.67
	Overall Means	4.65	4.72	4.62

AGED 640 Selected Student Comments

1. It was an honor to take this class from such an inspirational instructor.
2. Dr. Vestal is very open to dialogue and I look forward to class each week.
3. Dr. Vestal adapted to the students, which is very important to me.
4. I am better prepared to enter the working world because of the knowledge I gained from Dr. Vestal and this class.
5. This class exposed me to other viewpoints and ideas.

Student Evaluations AGED 301 taught in 2000-2001

Scale: 1= Strongly Disagree, 2 = Disagree, 3 = Neutral, 4 = Agree, 5=Strongly Agree

#	Question	2000 (n=158)	2001 (n=176)
1.	The instructor seemed well prepared for each class.	4.11	3.82
2.	The instructor handles the class responsibly.	4.28	4.16
3.	I would take another course from this professor.	3.32	3.10
4.	The exams/projects were presented and graded fairly.	3.48	3.55
5.	The amount of work and/or reading was reasonable.	3.52	2.65
6.	I believe this instructor was an effective teacher.	3.61	3.38
7.	Help was readily available for questions and or homework outside class.	3.96	3.95
8.	I gained a good understanding of the concepts/principles in this field.	3.65	3.55
9.	I learned about career opportunities.	4.12	3.29
10.	The instructor is enthusiastic and enjoys teaching.	4.23	4.12
	Overall Means	3.80	3.24

AGED 301 Selected Student Comments

1. This class did a good job establishing a foundation of the general information of what agricultural education is but one should take it as a freshman or sophomore to see if AGED is truly where their interests lie. Too, bad it is an upper level course.
2. Dr. Vestal did a very good job of sparking my interest in agriculture; I would recommend him to anyone.
3. Hands-on and interactive group meetings were the best and most fun.
4. The amount of work required for the two-hour course exceeds what should be expected.
5. Instructor cares, expresses concern for the students, and is available for help.
6. I would take another class from Dr. Vestal.

Student Evaluations AGED 489 taught in 1996-1997

Scale: 1= Strongly Disagree, 2 = Disagree, 3 = Neutral, 4 = Agree, 5=Strongly Agree

#	Question	1996 (n=25)	1997 (n=27)
1.	The instructor seemed well prepared for each class.	4.80	4.59
2.	The instructor handles the class responsibly.	4.96	4.63
3.	I would take another course from this professor.	4.84	4.37
4.	The exams/projects were presented and graded fairly.	4.88	4.22
5.	The amount of work and/or reading was reasonable.	3.00	3.19
6.	I believe this instructor was an effective teacher.	4.72	4.37
7.	Help was readily available for questions and homework outside class.	4.96	4.59
8.	I Learned to apply principles from this course to new situations.	4.88	4.52
9.	I developed a set of overall values in this field.	4.80	4.41
10.	I developed leadership skills in this class.	4.92	4.52
11.	I learned to value new viewpoints.	4.84	4.48
12.	The instructor seemed enthusiastic about the materials presented.	4.96	4.87
	Overall Means	4.71	4.39

AGED 489 Selected Student Comments

1. It is seldom that you find a teacher with such concern and passion for both the students and the course content/outcome.
2. Mr. Vestal is extremely enthusiastic about this subject and he does a good job of sharing that enthusiasm.
3. This class was a lot of hard work but also a tremendous learning experience.
4. AGED 489 is excellent! I highly recommend this class to those who want to take part in the ag industry.
5. I'm so glad I was able to take this class and get valuable life skills and leadership experience.
6. Mr. Vestal is wonderful; he made me look at aspects of agriculture in a whole new light and to give deep thoughts to important issues.
7. Everyone should take this class just to get the "real world" stuff that you don't get in other classes. I don't think I've ever learned anything more practical or useful!

Record of Service on Graduate Student Committees:

as of 7/1/08

Student Status	<u>M.Ed.</u>		<u>M.Ag.</u>		<u>M.S</u>		<u>Ph.D.</u>		<u>Ed.D.</u>		<u>Total</u>
	Ch.	Srv.	Ch.	Srv.	Ch.	Srv.	Ch.	Srv.	Ch.	Srv.	
Subtotals			1	3	1	5		5	1		16
Grand Total											16

Record of Graduate Student Advising:

<u>Ph.D. & Ed. D. Students</u>	<u>Degree</u>	<u>Dept</u>	<u>Since</u>	<u>Role</u>	<u>Graduated</u>
Judith White	Ph.D.	AgEd	2004	Member	2006
Elizabeth Gregory	Ph.D.	AgEd	2004	Member	Current
J. Brad Davis*	Ed.D.	AgEd	2001	Co-Chair	2006
Connie Sheppard	Ph.D.	EHRD	2000	Member	2002
Jeff Howard	Ph.D.	AgEd	2002	Member	2001
Marquita Sulak	Ph.D.	AgEd	1998	Member	2000

Note: * Doc@Distance Texas A&M
and Texas Tech

MS Students

Dustin Biela	M.Ag	ALEC	2008	Chair	Current
Ellen Kay Tom	M.Ag	ALEC	2007	Member	2008
Stephen L. Bahr, II	M.Ag	Ento	2006	Member	2007
Masha Pashpashnova	M.Ag	ALEC	2004	Member	2006
David Magana	MS	AgEco	2004	Member	2005
Tyann Blessington	MS	Hort	2003	Member	2005
Mark Bedgood	MS	AgEd	2002	Member	2004
Jeff Lucas	MS	ALEC	2002	Chair	2008
Summer Felton	MS	AgEd	1998	Member	2001
Dee Anne Blackburn	MS	AgEd	1997	Member	1999
Lucinda Pullen	MS	AgEd	1995	Member	1996

PUBLICATIONS AND PROFESSIONAL OUTPUT (1990-2007)

** graduate student doctoral degree

* graduate student master degree

Peer-reviewed Journal Articles

Laminack*, J., Dainello, F., Degenhart, S.H., **Vestal, T. A.**, & Wingenbach, G. (2008).

“Reducing Food Irradiation Outrage: Appealing to One’s Affective Domain, *Journal of Extension* (#06152RIB accepted for August 2008 publication).

Mukhtar, S., Boadu, F.O., Yanhong, H. J., Shim, W., **Vestal, T. A.**, Wilson, C. L. (2007).

Managing Contaminated Animal and Plant Materials: Field Guide on Best Management Practices. Technical Support Working Group for Antiterrorism and Consequence Management. U.S. Department of Agriculture and U. S. Environmental Protection Agency, Washington, D.C.

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Laminack*, J., Dainello, F., **Vestal, T. A.**, & Wingenbach, G. J. (2006). Experiential education employed to demystify food irradiation as a viable technology for food industry professionals. *HortTechnology*, 16(2), *Journal of The American Society For Horticultural Science*.

Phelan**, K. C., Thompson, B., **Vestal, T. A.**, & Wingenbach, G. (2005). The relationship between knowledge, attributes, and demographic variables of family and consumer sciences teachers regarding food irradiation. *Family and Consumer Sciences Research Journal*, American Association of Family and Consumer Sciences.

Thompson, B., Phelan**, K. C., **Vestal, T. A.**, & Wingenbach, G. (2005). Family and consumer sciences teachers’ changes in knowledge and attitudes about food irradiation. *Journal of Family and Consumer Sciences Education* (accepted Fall/Winter 2006).

Thompson, B. M., Schlielack, J. F., & **Vestal, T. A.** (2004). Seeing is believing: Effective components of a professional development training for county Extension educators on an innovation perceived as risky. *Journal of Food Science Education*, 3(4)54-58.

Vestal, T.A., & Briers G.E. (2000). Exploring knowledge, attitudes, and perceptions of newspaper journalists in metropolitan markets in the United States regarding food biotechnology. *Journal of Agricultural Education*, 41(4)134-144.

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Blackburn*, D. A. (1999). Ag science fairs: The next wave in agricultural literacy. *Journal of Extension*, 37(4) [on-line] retrieved June 11, 2005 at <http://joe.org> (note: this graduate student failed to submit supporting authors – Vestal, T. A., Skaggs*, J & Pullen*, L.)

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Degenhart, S. H. and Vestal, T.A. (2007). A Practical Method to Address Science and Policy of Disposal of Mass Animal Mortality” DHS Science and Technology Directorate Office of University Programs, 2007 Homeland Security Science and Technology Stakeholders Conference May 2007, Washington, D.C.

Vestal, T. A. (2005). Consumers and producers education on electron beam irradiation. (abstract accepted as IFT Tech Program Paper # 26873). Paper presented July 19, 2005 at *Institute of Food Technologists Annual Meeting and Food Expo*, New Orleans, NO [on-line] retrieved May 22, 2005 at http://ift.confex.com/ift/2005/techprogram/paper_26873.htm

Vestal, T. A., Dainello, F., Wingenbach, G., & Laminack*, J. (2005). Experiential education employed to demystify food irradiation as a viable technology for food industry professionals. (abstract accepted as ASHS-101577-OFG-04 in *HortScience*, Paper presented July 21, 2005 at American Society for Horticulture Science, Las Vegas, NV

Vestal, T. A., (1999). Biotech foods: The first harvest. A special report for news journalists. [Article featured on front cover and inside front cover] *Journal of Applied Communications* 83(2)1.

Vestal, T. A., & Briers, G. E. (1999). Knowledge, attitudes, and perceptions of journalists for newspapers in metropolitan markets in the United States regarding food biotechnology. *HortScience* 43(3)516. Paper presented July 14, 1999, Minneapolis, MN

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- Vestal, T. A.** (2005). Advances in food irradiation technology symposium: Consumer and producer education on electron beam irradiation.” In *Proceedings of Institute of Food Technologist Annual Meeting and Food Expo*, Jul 16-20, 2005 New Orleans, LA
- Vestal, T. A.** (2005). Food irradiation basics. In *Proceedings of National Restaurant Association Annual Conference*, May 20-24, 2005, Chicago, IL
- Vestal, T. A.** (2004). Quality, nutrition and safety: Affects of irradiation on food. In *Proceedings of California Farm Bureau Federation and USDA-FAS Food Irradiation Policies and Possibilities*, Nov 30, 2004, Sacramento, CA [on-line] retrieved May 29, 2005 at <http://www.cfbf.com/issues/foodIrr.cfm>
- Vestal, T. A.** (2004). “Industry perspective: Electron beam food irradiation. In *Proceedings of California Farm Bureau Federation and USDA-FAS, Food Irradiation Policies & Possibilities*, Nov 30, 2004, Sacramento, CA [on-line] retrieved May 29, 2005 at <http://www.cfbf.com/issues/foodIrr.cfm>
- Vestal, T. A.** (2004). How much safer is irradiated meat and poultry? In *Proceedings of Process Engineering Expo 2004, Food Manufacturing Magazine*, Oct 6, 2004, New York, NY [on-line] retrieved Oct 7, 2004 at <http://reedbusinessinteractive.com/tech/index.asp>
- Vestal, T. A.** (2004). MixAlco process as a platform technology for a multi-state approach to enterprise development of biomass support systems. In *Proceedings of South Central Region Sun Grant Initiative Conference*, Oklahoma State University, June 14-15, 2004, Oklahoma City, OK
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- Vestal, T. A.** (2003). History of food irradiation: Texas moves ahead. In *Proceedings of Texas Beef Council Food Safety Symposium*, Jun 25, 2003, Irving, TX
- Vestal, T. A.** (2003). Biotechnology: Opportunities and challenges. In *Proceedings of New Mexico Agricultural Experiment Station Science Conference*, New Mexico State University, Jan 9, 2003, Las Cruces, NM
- Vestal, T. A.** (2002). Electron Beam: Food Safety Application. In *Proceedings of State-wide Conference of Family and Consumer Sciences*, Prairie View Cooperative Extension, Oct 30-31, 2002, San Antonio, TX

- Vestal, T. A.** (2002). Electron beam: 21st century food safety. In *Proceedings of Texas Food Safety and Biosecurity Symposium*, U.S. Food and Drug Administration, Sep 24, 2002, Arlington, TX
- Vestal, T. A.** (2002). Consumer acceptance of food irradiation. In *Proceedings of FAO Group Fellowship for Food Regulatory Professionals*, Institute of Food Science and Engineering, Texas A&M University, Aug 5-8, 2002, College Station, TX
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- Vestal, T. A.** (2002). Electron beam: 21st century food safety.” In *Proceedings of American Nuclear Society Annual Meetings*, American Nuclear Society, April 16-20, 2002, Santa Fe, NM
- Vestal, T. A.** (2001). Scientific status summary on monarch butterfly and Cryo 9 Bt gene health and environmental research. In *Proceedings of Texas Medical Association Task Force Meetings on Safety of Genetically Modified Foods*, Texas Medical Association, Sep 11, 2001, Austin, TX
- Vestal, T. A.** (2001). 10 steps to safety: Regulating plant biotechnology in the United States. In *Proceedings of Texas Medical Association Task Force Meetings on Safety of Genetically Modified Foods*, Texas Medical Association, Jun 28, 2001, Austin, TX
- Vestal, T. A.** (2001). Communicating biotechnology by bridging higher education and community educators. In *Proceedings of Council for Agricultural Science and Technology*, Council for Agricultural Science and Technology, Jun 20, 2001, St. Louis, MO
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- Mukhtar, S., Boadu, F.O., Yanhong, H. J., Shim, W., **Vestal, T. A.,** Wilson, C. L. (2007). *Managing Contaminated Animal and Plant Materials: Field Guide on Best Management Practices*. Technical Support Working Group for Antiterrorism and Consequence Management. U.S. Department of Agriculture and U. S. Environmental Protection Agency
- Vestal, T. A., Dainello, F., Thompson, B., Phelan, K, Denny, S., and Lavergne, C. (2004).** *The I's have it*. Texas AgriLife Research, (brochure).
- Vestal, T. A., Dainello, F., Phelan, K, Denny, S., and Lavergne, C. (2004).** *E-Beam ingenuity and innovation*. Texas AgriLife Research and Texas AgriLife Extension (educational display)
- Vestal, T. A., Boecker, S., Edelman, J., Gergini, T., Hawkins, C., Hinnant, T., and O'Neill, K. (2003).** *Explore the genetic frontier: What is biotechnology*. Texas AgriLife Extension Service Publication # L-5407, The Texas A&M University System, available at <http://tcebookstore.org>

- Vestal, T. A.** (2003). *Explore the genetic frontier: 10 steps to safety of regulating plant biotechnology*. Texas AgriLife Extension Service Publication # L-5420, The Texas A&M University System, also available on-line at <http://tcebookstore.org>
- Vestal, T. A.,** Cooper, M., Douglas, N., Gibson, J., Kopecki, C, Lehrman, J, Searight, R., and Hawkins, C. (2002). *Explore the genetic frontier: Developing crops resistant to glyphosate*. Texas AgriLife Extension Service Publication # L-5411, The Texas A&M System, available at <http://tcebookstore.org>
- Vestal, T. A.,** Boecker, S., Edelman, J., Gergini, T., Hawkins, C., Hinnant, T., and O'Neill, K. (2002). *Explore the Genetic Frontier: Biotechnology and Cotton-Texas' Biggest Crop*. Texas AgriLife Extension Service Publication # L-5408, The Texas A&M University System, available at <http://tcebookstore.org>
- Vestal, T. A.,** & Hawkins, C. (2002). *Explore the Genetic Frontier: Labeling Foods Derived from Biotechnology*. Texas AgriLife Extension Service Publication # L-5410, The Texas A&M System, available at <http://tcebookstore.org>
- Vestal, T. A.,** & Park, D., (2002). *Electron Beam: 21st Century Food Science*. A joint publication of the Institute of Food Science and Engineering of Texas AgriLife Research and Texas AgriLife Extension Service, Department of Agricultural Education. TCE publication # SP 157, available at <http://tcebookstore.org>
- Vestal, T. A.** (1998). *Biotech food the first harvest: A special report for journalists*. Texas AgriLife Research and Texas Agricultural Extension Service, Department of Agricultural Education, TCE Publication #MKT-3130, available at <http://tcebookstore.org>
- Vestal, T. A.,** Skaggs, J., & Blackburn, D.A., (1995). *Where agriculture comes alive*. Texas AgriLife Extension Service, available at 979-862-3013 (brochure).
- Vestal, T. A.** (1995). *The Texas AgriFood masters' expansion and management guide*. Texas AgriLife Extension Service Publication B6021, available at 979-862-3013.
- Vestal, T. A.** (1995). *The Texas AgriFood Masters Tool Chest*. Texas AgriLife Extension Service Publication B6022, available at 979-862-3013.

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- Wingenbach, G.J., Thompson, B.L., Phelan, K. C., & **Vestal, T. A.** (2004). *Family and Consumer Science Teacher Education Post-Post Follow-up Research Instrument* (web portal for research) – CSREES-USDA: National Integrated Food Safety Initiative. Department of Agricultural Education, Texas A&M University, retrieved February 5, 2004 at <http://www.ag-communications.org/surveys/>

Wingenbach, G.J., **Vestal T. A.**, & Dainello, F. (2004). *Food Industry Professional and Cooperation Extension Education Post Workshop Research Instrument* (web portal for research) – CSREES-USDA: National Integrated Food Safety Initiative. Department of Agricultural Education, Texas A&M University, retrieved August 2, 2004 at <http://www.ag-communications.org/surveys/>

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Vestal, T. A., & Briers, G.E. (1998). *Food Biotechnology: A Questionnaire for Professionals in Journalism*. Department of Agricultural Education, Texas A&M University

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Vestal, T. A. (2005). *Food Pasteurization with Electronic Irradiation (short course handbook)*. Texas AgriLife Extension Service and Texas AgriLife Research, College Station, TX

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Vestal, T. A., & Batchelor, B. (1991). *Texas AgriFood Master Volunteers*. (curriculum) Texas Agricultural Extension Service, San Antonio, TX.

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Web Sites and Web Pages Developed and Maintained

- Lucas, J., **Vestal, T. A.**, Dainello, F. & Degenhart, S. H., (2006, English & Spanish). Introduction to Microbiological Safety and Fresh Fruits & Vegetables (webpage). Department of Horticulture, Texas AgriLife Extension Service, The Texas A&M University System, retrieved June 3, 2007, at <http://aggiehorticulture.tamu.edu/foodsafety/foodsafetyissues.html>
- Lucas, J., **Vestal, T. A.**, Dainello, F. & Degenhart, S. H., (2006, English & Spanish). Control of microbial growth & food borne disease pathogens in fresh fruits and vegetables (webpage). Department of Horticulture, Texas AgriLife Extension Service, The Texas A&M System, retrieved June 3, 2007, at <http://aggiehorticulture.tamu.edu/foodsafety/foodsafetyissues.html>
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Vestal, T. A., & Thomas, J. (1993). *Impact of Agribusiness in Bexar County* (VHS Video). CBS/KENS-TV5, Hart-Hanks Communications, San Antonio, TX

Vestal, T. A., & Thomas, J. (1991). *Living with Africanized Honeybees* (VHS and Beta Video). U.S. Department of Defense, Fort Sam Houston, San Antonio, TX

Television and Radio Educational Broadcasts

- Vestal, T. A.** (print media interview, Dec 15, 2003). Electron beam food irradiation. Interview with Amy Cosper of *Food Manufacturing* [magazine], New York, NY
- Vestal, T. A.** (broadcast media interview, Nov 19, 2003). Safer food with electron beam food Irradiation [three part series for radio]. Interview with Kirk Lancaster at *Texas Farm Bureau Radio Broadcasting Network*, Waco, TX
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- Vestal, T. A.** (television recording, Oct 29, 2003). Healthier foods: Eliminating transfats. *CBS Evening News with Dan Rather*, New York, NY
- Vestal, T. A.** (broadcast media interview, Mar 17, 2003). Agricultural and food biotechnology [three part series for radio]. Interview with Kirk Lancaster at *Texas Farm Bureau Radio Broadcasting Network*, Waco, TX
- Vestal, T. A.** (live television production, Mar 12, 2001). Safety of genetically modified foods, *KHOU Public Broadcasting System*, Houston, TX
- Vestal, T.A., & Batchelor, B.** (1992-94). Texas Farm-to-Market *CBS/KENS-TV5, Hart-Hanks Communications* [weekly]. San Antonio, TX
- Vestal, T.A., McReynolds, B., & Batchelor, B.** (1990-1994). WOAI Farm and Ranch Show, *WOAI Radio/Clear Channel Communications* [twice per week]. San Antonio, TX
- Vestal, T.A.** (May 1993). Killer bees in Poteet, Texas. [live television feed via satellite] for *CBS This Morning with Paula Zahn and Harry Smith*, New York, NY
- Vestal, T.A.** (May, 1992). Killer bees in San Antonio, Texas. [live television feed via satellite] for *CBS This Morning with Paula Zahn and Harry Smith*, New York, NY

Grant and Contract Reports

- Vestal, T. A., Dainello, F., & Wingenbach, G. J.** (2005). *Improving Safety of Complex Food Items using Electron Beam Technology*, FY 2005 Annual Report of Consumer and Food Industry Outreach Components of 2002-2006 funded USDA-CSREES Integrated Food Safety Initiative Program. Texas AgriLife Research and Texas AgriLife Extension Service, College Station, TX
- Vestal, T. A., Thompson, B. & Dainello, F.** (2004). *Improving Safety of Complex Food Items using Electron Beam Technology*, FY 2004 Annual Report of Consumer and Food Industry Outreach Components of 2002-2006 funded USDA-CSREES Integrated Food Safety Initiative Program. Texas AgriLife Research and Texas AgriLife Extension Service, College Station, TX

Vestal, T. A., Thompson, B., & Dainello, F. (2003). *Improving Safety of Complex Food Items using Electron Beam Technology*, FY 2003 Annual Report of Consumer and Food Industry Outreach Components of 2002-2006 funded USDA-CSREES Integrated Food Safety Initiative Program. Texas AgriLife Research and Texas AgriLife Extension Service, College Station, TX

Vestal, T. A., & Thompson, B. (2002). *Electron Beam Food Safety Technology Training of Extension Family Consumer Science Agents*, FY 2002 Report of Train the Trainer Components of 2002 -2003 funded SureBeam Corporation project. Texas AgriLife Research and Texas AgriLife Extension Service, College Station, TX

Extension Newsletters and Result Demonstration Handbooks

Vestal, T. A. (2001). *TAEX Learning About Biotechnology* [eNewsletter]. Monthly state of the science Newsletter to county Extension agents, Texas Agricultural Extension Service, Department of Agricultural Education, Texas A&M University, College Station, TX

Vestal, T. A., Pullen, L., Klement, A., & Blackburn, D. A. (1994-99). *The AgriFood Master* [quarterly newsletter]. Texas Agricultural Extension Service, Department of Agricultural Education, Texas A& M University, College Station, TX

Vestal, T. A., & Batchelor, B. (1992-94). *Bexar County AgriFood Master* [monthly newsletter]. Texas Agricultural Extension Service, San Antonio, TX

Vestal, T. A., & Batchelor, B. (1990-94). *Bexar Beef Cattle Producer Newsletter* [quarterly]. Texas Agricultural Extension Service, San Antonio, TX

Vestal, T. A., & Batchelor, B. (1990-94). *Bexar Crops Producer Newsletter* [quarterly]. Texas Agricultural Extension Service, San Antonio, TX

Vestal, T. A., Batchelor, B., & Finch, C. (1992). *Extension Handbook of Result Demonstrations*. Texas Agricultural Extension Service, San Antonio, TX

Vestal, T. A., Batchelor, B., & Finch, C. (1991). *Extension Handbook of Result Demonstrations*, Texas Agricultural Extension Service, San Antonio, TX.

SERVICE ACTIVITIES

International Organizations

2008-2009 **Member** – Public Policy & Regulatory Outreach Advisory Panel, Institute of Food Technologists, Chicago, IL

2005-2008 **Member** - Association for International Agricultural and Extension Education, Columbus, OH

2006-2007 **Member** - Management Committee on Science Communications and Government Relations, Institute of Food Technologists, Washington, DC

2006-2007 **Member** - Food Nanoscience Working Group, Institute of Food Technologists, Chicago, IL

2003-2005 **Committeeman**, TAMU Asia/Pacific Initiative with the Korean Research Institute for Biosciences and Biotechnology (KRIBB) - College Station, TX

National Organizations

2008 **Committeeman**, National Animal Emergency Responder Review Group, Federal Emergency Management Agency, Washington, D.C.

2007-2008 **Vice-chair**, National Extension Disaster Education Network Professional Development Committee, Hilo, HI

2007-2008 **Committeeman**, National Extension Disaster Education Network Animal AgroSecurity Committee, USDA-CSREES, Washington, D.C.

2007 **Member**, National Extension Disaster Education Network, Peer Review Committee, Washington, D.C.

2005 – 2007 **Member**, National Extension Disaster Education Network Annual Meeting Committee

2006-2007 **Juror**, U.S. Congressional Award for Science, Institute of Food Technologists, Washington, DC

2006-2007 **Chairman**, IFT Government Relations Committee, Washington, DC

2005-2006 **Chair-elect** – IFT Government Relations Committee, Washington, DC

2005 **Technical Expert** on Food Irradiation at National Restaurant Association Conference, Chicago IL

2004 Government Relations **Committeeman** at NSF Coalition Meeting,
Washington, DC

2004 **Peer Reviewer** of IFT Scientific Status Summary (S-048) Irradiation and
Food Safety, College Station, TX

2003-2005 **Juror** on National Awards Committee, William V. Cruess Award for
Excellence in Teaching

2002-2007 **Committeeman**, IFT Government Relations Committee,
Washington, DC

2000-2007 IFT **Professional Member**, Chicago, IL

USDA-CSREES

1993 Served on **Review Committee** for National Cooperative Extension Guide for
Community Development Programs, Washington, DC

Journal of Agricultural Education

1999-2000 **Peer Reviewer** of Articles, College Station, TX

State & District Organizations

Texas AgriLife Extension & Texas AgriLife Research

2006-2008 **Agency Liaison**, State Emergency Management Council, Governor's
Division of Emergency Management, Austin, TX

2006-2007 **Treasurer**, Texas Alpha Zeta Chapter Epsilon Sigma Phi

2005-2007 **Member**, *eXtension* Institutional Work Team, National eXtension
Initiative, College Station, TX

2003 **Representative** for Texas Water Resources Institute (TWRI), Rio Grande
Valley Water Summit, Harlingen, TX

2002-2003 **Sub-Committee** on Biotechnology Education and Workforce
Development, Governor's Council on Biotechnology Development,
Austin, TX

2002 **Committeeman**, 2003 State Extension Staff Conference, College Station, TX

2002 **Volunteer Host**, Texas Association of County Commissioners and Judges
Annual Meeting in College Station, TX

1999 **Member**, Educational Resource Library Strategic Planning Committee, College
Station, TX

- 1997-1998 **Member**, Texas 4-H Volunteer Screening Policy Committee, College Station, TX
- 1996-1997 **Strategic Planning Expert**, Texas Farm Bureau Texas 2000 Strategic Plan, Waco, TX
- 1995-2007 **Honorary Director**, San Antonio Livestock Exposition, San Antonio, TX
- 1995-1999 **Member**, Environmental Stewardship and Natural Resources Issues Team, Texas Agricultural Extension Service, College Station, TX
- 1995-1996 Committeeman, Agribusiness Strategic Planning Committee, Texas Department of Agriculture, Austin, TX
- 1992-1995 **Superintendent**, Steer and Heifer Sale Committee, San Antonio Livestock Exposition, San Antonio, TX
- 1992-1994 **Member**, San Antonio Community College Scholarship Committee, San Antonio, TX
- 1990-1994 **Member**, Family Fair Committee, San Antonio Livestock Exposition, Inc., San Antonio, TX
- 1990-1994 **Member**, Livestock Committee, San Antonio, Livestock Exposition, Inc., San Antonio, TX
- 1990-1994 **Secretary**, South Texas Farm and Ranch Club, San Antonio, TX
- 1990-1994 **Agribusiness Analyst**, Economic Analysis Panel, Greater San Antonio Chamber of Commerce, San Antonio, TX
- 1989-1990 **Member and Advisor**, Hockley Co. Cotton Marketing Club, Levelland, TX
- 1988 **Advisor**, District 2-South Plains 4-H Adult Leaders Association, Lubbock, TX
- 1984-1988 **Superintendent**, Beef Heifer Division, Panhandle South Plains Fair, Lubbock, TX
- 1983-1988 **Director and Founding Member**, Crosby County A.I. Breeders Association, Crosbyton, TX
- 1982-1988 **Member**, South Plains Boll Weevil Technical Advisory Committee, Lubbock, TX

1981 **Adult Chaperon**, Texas 4-H Youth Delegation to National 4-H Congress, Chicago, IL

1981-1984 **Superintendent**, Dairy Show Division, South Plains Fair, Lubbock, TX

Texas Alpha Zeta Chapter of Epsilon Sigma Phi (ESP)

The Cooperative Extension Professional Organization

2004-2007 **Campus Chapter Director**, College Station, TX

2003-2004 **Chair**, Professional Extension Association Council (PEAC) Galaxy Task Force, Brownwood, TX

Texas AgriLife Extension Service Specialists Association (TCESA)

2003-2004 **Past President and Executive Committee Member**, TCESA Organization, Galveston, TX

2003 **Co-chair**, Professional Extension Associations Council (PEAC), Brownwood, TX

2002-2003 **President and Chair of Executive Committee**, TCESA Organization, San Antonio, TX

2001-2003 **President-elect and Member of Executive Committee**, TCESA Organization, Austin, TX

2001- 2002 **Chair**, Annual Meeting Committee, TCESA, College Station, TX

1996-2007 **Member**, TCESA College Station, TX

Texas Medical Association (TMA)

2004 **Technical Expert**, TMA Council on Scientific Affairs, Food Safety with Irradiation-Electron Beam Technology, Austin, TX

2002 **Technical Expert**, TMA Continuing Medical Education, Biotechnology-derived Foods, Dallas, TX

2002 **Scientific Review and Writing Team**, President's Report on Safety of Genetically Modified Foods, Austin, TX

2001-2002 **Technical Expert**, TMA Task Force on Safety of Genetically Modified Foods, Austin, TX

Texas County Agricultural Agents Association

1987-1988 **Member**, TCAAA Animal Industries Committee, Lubbock, TX

1978-1994 **Member**, Texas County Agricultural Agents Association

Campus, Texas A&M System

Department of Agricultural Education

2005-2007 **Member**, Departmental Promotion and Tenure Committee, College Station, TX

2002 **Member**, Capital Campaign Committee, College Station, TX

2002 **Member**, Graduate Program in Agricultural Education Marketing Team, College Station, TX

2000 **Member**, Doctoral Program Review Team, Agricultural Education, College Station, TX

2001 **Member**, Texas A&M Chapter of Agricultural Communicators in Education, College Station, TX

1999-2000 **Member**, Texas A&M System Agriculture Program's Biotechnology Communications Team, College Station, TX

1999 **Member**, Texas Agricultural Biotechnology Summit Planning Committee, Austin, TX

1996-2005 **Member**, American Assn. for Agriculture Education, College Station, TX

1999 **Member**, Chancellors' Urban Community Development Task Force, Houston, TX

1995-2004 **Logistics Coordinator**, Area and State High School FFA Career Development Competition in Meats Science, College Station, TX

College and The Texas A&M System

2002 **Coordinator**, Convergence of Agriculture, Food, and Health Sciences Symposium, COALS 90th Anniversary Lecture Series, College Station, TX

2002 **Module Coordinator**, FAO-UN Turkish Food Science Fellow-Dr. Erhan Ic, Food Irradiation History Science and Technology, College Station, TX

2002 **Member**, Doctoral Program Review Team, Intercollegiate Graduate Program in Food Science and Technology, TX

1997-1998 **Member**, TAMUS Agriculture Program Food for Life/DuPont Strategies Committee, The Bush School, College Station, TX

1997-99 **Member**, TAMUS Program Urban Directional Emphasis Team, College Station, TX

1996-1999 **Member**, TAMUS Agriculture Program Strategic Communications Team, College Station, TX

1993 **Member**, Texas Agricultural Summit Planning Committee, College Station, TX

1993-97 **Member**, TAMUS Agriculture Program Think Tank, College Station, TX

Community Organizations

2006 **Member**, College Station Independent School District, School Improvement Committee, College Station, TX

2005 **Co-chair**, Capital Campaign Celebration Sunday Event Committee, Christ United Methodist Church, College Station, TX

2003-2005 **Volunteer**, Research Valley Partnership, BCS Economic Development Corporation, Bryan, TX

1995-1997 **Member**, Administrative Ministries Team, Christ United Methodist Church, College Station, TX

1996-2005 **Member**, 1st Bale of Cotton Committee, Bryan/College Station C of C Agribusiness Council, Bryan, TX

1993-1994 **Director**, San Antonio A&M Club Foundation, Inc., San Antonio, TX

1992-1993 **Membership Committee**, Downtown Rotary Club, San Antonio, TX

1992-2004 **Director**, AgriFood Education Council, Inc., San Antonio, TX

1991-1993 **Member**, Downtown Rotary Club, San Antonio, TX

1990-1994 **Member**, San Antonio, A&M Club, San Antonio, TX

1982-1988 **Director**, Crosbyton Chamber of Commerce, Crosbyton, TX