

**TENNESSEE TECH UNIVERSITY**  
***College of Agricultural and Human Sciences***  
**ANNUAL REPORT 2010-2011**

The following information is a reflection of the accomplishments of the College of Agricultural and Human Sciences for the 2010-2011 Academic year, and for the past five years where appropriate. Units reporting within the College include information from the following:

- School of Agriculture
- School of Human Ecology
  - Tennessee Early Childhood Training Alliance
  - Upper Cumberland Child Care Resource & Referral Center
- School of Nursing
- Oakley Sustainable Agriculture Center

**I. STATUS REGARDING FOLLOWING DELIVERABLES**

**a. ENROLLMENT—Fall Semesters**

	2006	2007	2008	2009	2010
<b>COLLEGE TOTALS</b>	<b>791</b>	<b>860</b>	<b>1000</b>	<b>1054</b>	<b>1101</b>

**b. NUMBER DEGREES AWARDED (Summer, Fall, Spring for each year)**

	2006-07	2007-08	2008-09	2009-10	2010-11
<b>COLLEGE TOTALS</b>	<b>139</b>	<b>141</b>	<b>170</b>	<b>181</b>	<b>2</b>

**c. DEGREE INNOVATIONS**

The three Schools and the Oakley Center have a number of innovative programs as outlines in individual reports in this report. In addition, the College has promoted several “travel-abroad” opportunities that include this current year:

Mexican Adventure II

Prague

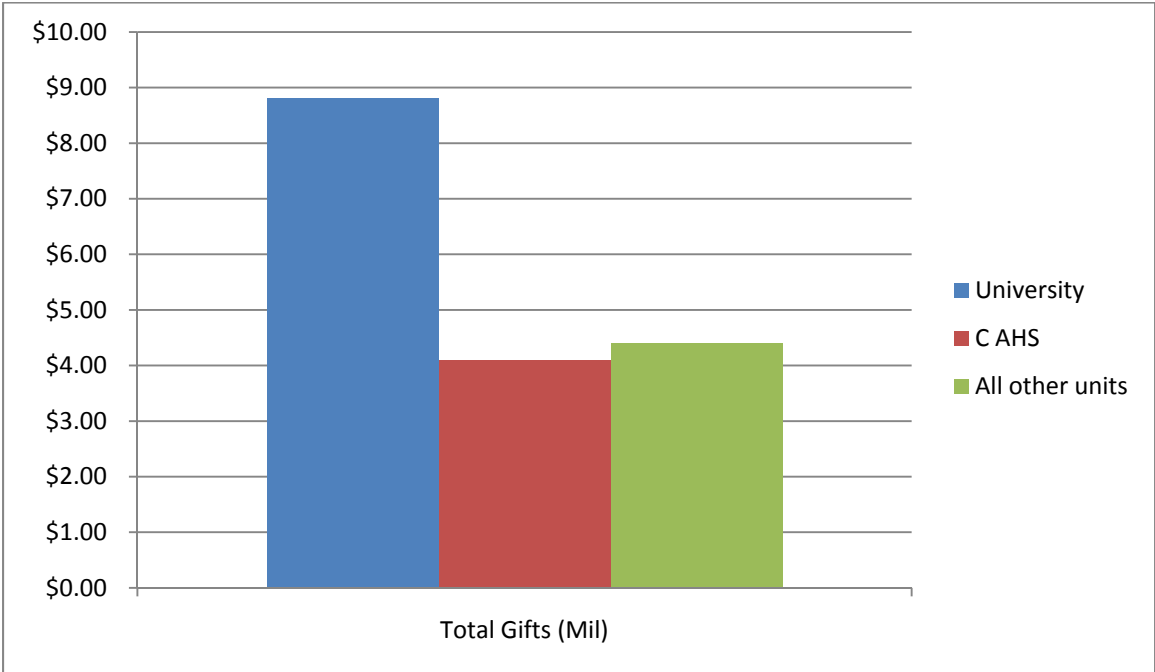
Finland

Planned for 2011- 2012; the three above plus

Paris

Second group with Service-Learning project to Mexico

GIFTS, as reported by University Development:



**TENNESSEE TECH UNIVERSITY  
SCHOOL OF AGRICULTURE  
ANNUAL REPORT 2010-2011**

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**II. STATUS REGARDING FOLLOWING DELIVERABLES**

**a. RETENTION (Fall to Spring and Fall to Fall for First Time Freshmen Cohorts)**

	2006		2007		2008		2009		2010	
	Fall-Spring %	Fall-Fall %	Fall-Spring %	Fall-Fall %	Fall-Spring %	Fall-Fall %	Fall-Spring %	Fall-Fall %	Fall-Spring %	Fall-Fall %
<b>SCHOOL TOTALS</b>	88.64	<b>63.64</b>	88.71	<b>77.42</b>	89.39	<b>68.18</b>	95.24	<b>80.95</b>	<b>92.0</b>	<b>NA</b>

**b. ENROLLMENT—Fall Semesters**

	2006	2007	2008	2009	2010
<b>SCHOOL TOTALS</b>	<b>211</b>	<b>226</b>	<b>257</b>	<b>266</b>	<b>308</b>
Agribusiness Management	37	41	50	51	61
Agricultural Communications	4	4	3	0	2
Agricultural Education	15	19	22	27	34
Agricultural Engineering Technology	30	34	50	52	45
Agritourism**	0	0	0	0	1
Agronomy & Soils	5	8	8	7	4
Animal Science	30	32	26	33	45
Animal Science—Pre-Vet	41	53	67	57	77
Environmental Agriscience	11	7	8	11	9
Horticulture	13	10	7	8	11
Nursery & Landscape Management	15	9	8	7	8
Turfgrass Management	10	9	8	13	11

**\*\*Agritourism has just been initiated, so enrollment numbers are low**

**c. NUMBER DEGREES AWARDED (Summer, Fall, Spring for each year)**

	2006-07	2007-08	2008-09	2009-10	2010-11
<b>SCHOOL TOTALS</b>	<b>46</b>	<b>37</b>	<b>44</b>	<b>48</b>	<b>59</b>
Agribusiness Management	<b>7</b>	<b>8</b>	<b>9</b>	<b>12</b>	<b>12</b>
Agricultural Communications	<b>0</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>
Agricultural Education	<b>4</b>	<b>0</b>	<b>4</b>	<b>3</b>	<b>3</b>
Agricultural Engineering Technology	<b>8</b>	<b>5</b>	<b>12</b>	<b>19</b>	<b>9</b>
Agritourism**	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Agronomy & Soils	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>
Animal Science	<b>5</b>	<b>10</b>	<b>8</b>	<b>6</b>	<b>19</b>

Animal Science—Pre-Vet	<b>1</b>	<b>4</b>	<b>4</b>	<b>1</b>	<b>5</b>
Environmental Agriscience	<b>6</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>
Horticulture	<b>5</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>
Nursery & Landscape Management	<b>3</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>
Turfgrass Management	<b>5</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>3</b>

**\*\*Agritourism has just been initiated, so there are no retention numbers as of yet**

#### **d. DEGREE INNOVATIONS**

**Agritourism**—Proposed Spring 2010—Approved August 2010

- The first offering of ATOU 1120, Introduction to Agritourism, was made this Spring (2011) to 16 students. At the writing of this proposal we have 4 students declared Agritourism and 3 incoming freshmen that have also said this would be their field of choice. We now are focusing on finding the right individual to become our first faculty member in Agritourism.

**Agricultural Engineering Technology**—Proposal for Accreditation—Process began Fall 2010

- It should be noted this is a multi-year process. The curriculum has been changed to meet the criteria for Accreditation, and now must be implanted for the committee to judge its effectiveness. Projected completion of this process would be 2012-13

**Restructuring of School Concentrations**—

- Based on student needs and the ever changing face of Agriculture, the faculty voted to re-vamp several of our concentrations into broader and more inclusive topics. We believe the changes will prove more useful for today's students and a more efficient use of faculty time. The appropriate applications and forms are being completed this summer for submission in Fall 2011. Below is an outline of some of the proposed changes:

##### *Animal Science*

- Restructuring and developing new, concise classes in Large Ruminant Management and Non-Ruminant Management
- Offering combined laboratories for related classes. These would be offered as separate courses and will be designed to provide students with more in-depth experiential learning opportunities

##### *Agricultural Engineering Technology*

- Continue with the implementation of the recently re-vamped coursework for the Accreditation process
- Also move to assist in the development the new and more appropriate laboratory setting at the Tech Teaching Farm.

##### *Plant & Soil Science*

- A completely new concentration combining Agronomy & Soils, Environmental Agriscience, Horticulture, Nursery & Landscape and Turfgrass.
- This new concentration will offer three options—Crop Science; Management; and Environmental Soil Science. Students opting for Crop Science will be able to specialize

in horticulture, organic, or traditional agricultural cropping systems. Those opting for the Management area can specialize in Nursery Management or Turfgrass Management. Finally, the Environmental Agriscience option will serve as a lead-in to one leg of our new masters degree.

### *Agricultural Leadership*

- This new concentration will focus on the development of an emphasis that allows students to study leadership, communication, and the applied sciences of agriculture.

### *Development of a Masters Degree*

- The letter of intent for a Master of Science in Agriculture is currently in process. Projected deadline for submission is July 1, 2011.

## III. COLLABORATIVE EFFORTS

- **QEP—Basement Mural---**Dr. Janice Branson and Dr. Pat Coleman  
“Agricultural Communication using Visual Media”—This project included both art and agriculture students. The mural runs the length of the north-south hall in South Hall’s basement. While depicting agricultural scenery on the top part of the mural, the bottom 1/3 shows typical soil profiles for various forms of topography. Students and faculty have worked diligently on this project all year.
- The use of service learning projects often results in greater connections with the community at large. The School of Agriculture boasts a variety of service-learning opportunities, two that are directly related to courses are:
  - AnS 1200, Introductory Animal Science—Students are required to work in small groups of two or three and spend a period of five weeks volunteering with a local business or agricultural producer on projects relating to animals as approved by the instructor.
  - AED 3210, Professional Leadership—In this course students are required to complete 20 hours of volunteer work with the organization or cause of their choosing (once approved by faculty).

## IV. PROGRAMS AND PROJECTS

- AED 4950, International Experience 2011--Prague. Travel course developed to provide insight into the world of international agriculture—includes two weeks in Prague. (Frazier & Best).
- Initiated the drive to create an acceptable laboratory setting for Agricultural Engineering Technology by repurposing the defunct Dairy loafing shed, calf parlor and milking parlor buildings.
- Submitted approved proposal for conversion of 9.4 acres of the Tech Farm (surrounding the Shipley Barn) into an 1830s Heritage Farmstead, to serve as laboratory for Agritourism. (Foster)
- Initiated recruitment efforts for the Nursery Landscape faculty position

- Initiated recruitment efforts for the Agritourism faculty position
- Submitted proposal for Animal Science faculty position

## V. HIGHLIGHTS OF KEY AREAS

### a. FACULTY RESEARCH

- **Awarded grants**
  - **\$11,598.00** – Higher Education Grant, Tennessee Department of Education (Frazier)
  - **\$9,562.00**—Study of effect of genetic variability and the use of an organically approved miticide for control of Varroa in honey bees. (Greene & Baier)
  - **\$99,940.00** (2008-2010)—Compost and drip irrigation effects on soil and water quality, soil carbon/nitrogen ratios, earthworms and crop yield in organic vegetable plots. (Stearman, Best, Baier, Branson, Young, Greene.)
  - **\$210.00**—Dean’s Faculty Development Funds. Presentations for Winter Education Seminar, Tennessee Nursery & Landscape Association, Pigeon Forge (Airhart)
  - **\$6,721.00**—Cookeville Urban Forestry—Inventory, Ordinance Compliance. TN Division of Forestry, Urban & Community Forestry Program. TTU Office of Research. (Airhart)
  - **\$3000.00**—Crossville Urban Forestry—Inventory, Tree Health Evaluation. TN Division of Forestry, Urban & Community Forestry Program. Awarded by Service Contract to Coorts Memorial Arboretum. (Airhart)
  - **\$500.00**—Planting non-vegetated riparian zones in Cookeville Urban Growth Boundary Map. TN Wildlife Resources Agency. (Airhart)
  - **\$29,949.00**—Demonstration of Strawberry Production Methods for Early Market—Specialty Crop Block Grant—Innovative Specialty Crop Project, USDA Specialty Crop Block Grant, Tennessee Department of Agriculture. (Best)
  - **\$5000.00**—An Economic Analysis of Yield and Quality Differences Associated with Two Different High-Tunnel Techniques for Heirloom Tomatoes. TTU Faculty Research Grant. (Best)
  - **\$147,077.00**—Compost Center and High Tunnel Construction and Management for Farmers, Tennessee Department of Agriculture (Stearman & Best)
  - **\$5000.00**—Soil Carbon and Nitrogen Relationships in Composted Organic Vegetable Plots. TTU Faculty Research Grant (Stearman)
  - **\$3,035.00**- Coordination of the Arboretum Certification Program, Tennessee Urban Forestry Council (Airhart, Arboretum)
- **Published Abstracts**
  - Dodson, R., Stearman, G. K., & Branson, J. (2010). Compost and cover crop management in organic vegetable production. American Society of Agronomy Annual Meeting, Long Beach, CA.

- Hoch, J., Stearman, G.K., Branson, J., & Dodson, R. (2010). Conservation tillage and compost treatments affect on soil quality and organic vegetable yield. American Society of Agronomy Annual Meeting, Long Beach, CA.
- Branson, J., Stearman, G.K., & Dodson, R. (2010). Effect of compost rate on soil organic matter content. American Society of Agronomy Annual Meeting, Long Beach, CA.
- **Poster/Oral Paper Presentations**
  - Dodson, R., Stearman, G. K., & Branson, J. (2010). Compost and cover crop management in organic vegetable production. American Society of Agronomy Annual Meeting, Long Beach, CA. (Poster)
  - Hoch, J., Stearman, G.K., Branson, J., & Dodson, R. (2010). Conservation tillage and compost treatments affect on soil quality and organic vegetable yield. American Society of Agronomy Annual Meeting, Long Beach, CA. (Poster)
  - Branson, J., Stearman, G.K., & Dodson, R. (2010). Effect of compost rate on soil organic matter content. American Society of Agronomy Annual Meeting, Long Beach, CA. (Poster)
- **Articles in Refereed Journals**
  - Murphrey, T., Arnold, S., **Foster, B.** & Degenhart, S. (2010). Verbal Immediacy and Audio Technology Use in Online Course Delivery—What do agricultural education students think? Western Region AAAE Proceedings, V. 29. Great Falls, MT . American Association of Agricultural Educators
- **Articles in Discipline Magazine or Non-refereed Journals**
  - Foster, B. (2010). Teaching in a Shrinking World. *The Agricultural Education Magazine* (82) 5. March/April 2010.
- b. BOOKS PUBLISHED**

*Not applicable*
- c. INNOVATION RESULTING IN SAVINGS, EFFICIENCY AND/OR IMPROVED OUTCOMES**
  - Restructuring of Farm Management Systems to improve student involvement in experiential education.
  - Utilizing faculty and staff teams to better utilize teaching farm facilities.
- d. FACULTY, STAFF AND STUDENT AWARDS**
  - i. Faculty & Staff Awards**
    - Dr. James Baier, TTU Outstanding Teaching Faculty Award
    - Dr. Janice Branson, Distinguished Alumnus Award from the Biosystems Engineering and Soil Science Department at the University of Tennessee.

- Dr. Janice Branson, National Association of College Teachers of Agriculture (NACTA) Teaching Award of Merit
- Dr. Jed Young, Outstanding Committee Member, Tennessee Nursery Association
- Dr. Bruce Greene, SOA Outstanding Faculty Member
- Dr. David Frazier, Tennessee Honorary FFA Degree
- Mrs. Tawnya Moss, Tennessee Honorary FFA Degree
- Mrs. Tawnya Moss, TTU Ambassador of the Month for April

#### ii. **Student Awards**

- James Flatt elected Southern Region Vice-President for the National FFA Association at the National Convention in Indianapolis, Indiana in October.
- Becca Hardin elected National Delta Tau Alpha (Agricultural Honorary) President in March.
- Holly Dickens elected National Delta Tau Alpha Eastern Vice-President.
- TTU Team (Holly Dickens, Joseph Summers & Joseph Martin) won National DTA Quiz Bowl
- Tennessee FFA Alumni Convention Collegiate Events Competition winners:
  - Animal Science Interview—Andy Ligon, 1<sup>st</sup> place
  - Agribusiness Interview—Chelsea Doss, 1<sup>st</sup> place
  - Agricultural Education Interview—Whitney Judd, 3<sup>rd</sup> place
  - Agricultural Processing Interview—Kaleb Hodges, 3<sup>rd</sup> place
  - Extemporaneous Public Speaking—Matthew McClanahan, 1<sup>st</sup> place
  - Prepared Public Speaking—Alyssa Fee, 1<sup>st</sup> place
  - Prepared Public Speaking—Amanda Scott, 2<sup>nd</sup> place
- At the Tennessee FFA Annual Convention in Gatlinburg two of our students were elected as state officers for 2011-2012:
  - Alyssa Fee, Western Region Vice-President
  - Elissa McLerran, State Secretary
- Summer Internships awarded to TTU SOA students:
  - Colby Paul, Governor Haslam's office, Nashville
  - Becca Hardin, Farm Bureau state office in Columbia
  - Farmers Cooperative
    - Justin Hill, Overton County
    - Matt Craighead, Putnam County
    - Zach Jolly, White County
  - Holly Dickens, USDA Rural Development
  - Patrick Johnston, The Beef Connection (Tennessee & Kentucky)
  - Amanda Allen, Farm Credit Services

#### e. **COMMUNITY SERVICE ACTIVITIES**

- Farm Days with Tennessee Farm Bureau (all faculty and staff)



- Putnam County Soil Conservation District Tree Sale (Branson)
- Tennessee FFA Board of Directors, Board of Trustees, State FFA Officer Selection Nominating Committee, National FFA Officer Candidate Selection Committee (Frazier)
- Tennessee FFA Goodwill Luncheon (all faculty)
- Tennessee Farm Bureau/TTU School of Agriculture Collegiate Debate (Frazier)
- Tennessee FFA Career Development Event hosts for Dairy Products, Floriculture, Nursery/Landscape (Frazier, Branson, Airhart, Young)
- Presentations for high school FFA members and/or secondary level agricultural education teachers (12 in-state, 3 out-of-state) (Frazier)
- Dual enrollment/Dual Credit workshop for teachers (Greene and Byler)
- Hosted the “Heartland Apicultural Society” annual Conference (Greene)
- Assisted in the development of the Putnam County Beekeeper’s Association (Greene)
- Hosted the Tennessee Tech SOA Agriscience Quiz Bowl preliminaries (at Hyder-Burks) and final rounds at Tennessee Farm Bureau Young Farmers Annual Meeting (all faculty)
- Beekeeping presentation for the City of Cookeville (Greene)
- Hosted the Tennessee Organic Production Network Conference in conjunction with the University of Tennessee in Cookeville (Stearman, Dodson)
- “Picking, planting, pruning young trees,” Master Gardener Training Seminar, **two presentations** for the Chattanooga Association of Landscape Professionals, Chattanooga and Cumberland County Extension Services Country Store, Crossville. (Airhart)
- “New ideas on elemental nutrition,” Chattanooga Association of Landscape Professionals and UT Extension. Green Express Horticulture short course. (Airhart)
- “Picking, planting & pruning trees,” and “New ideas on elemental nutrition,” **two presentations** for Tennessee Nursery Landscape Association Winter Seminar, Pigeon Forge, TN. (Airhart)
- Landscape Tree Maintenance,” Sequatchie County Master Gardener Training Session, Sequatchie-Bledsoe Community College. (Airhart)
- Using Horticulture Competencies to prepare students for Career Development Events, Career and Technical Education Conference, MTSU, Murfreesboro. (Airhart)
- “Elemental Nutrition for Trees, Revisited.” Tennessee Green Industry Field Day, Nursery Research Center, McMinnville. (Airhart)

- Tennessee Tech Garden Club Auction—plant donations and identification assistance. (Airhart)
- District FFA Agricultural Mechanics Career Development Event (Baier, Frazier)
- Faculty Advisor to Students for Cummins Falls Committee
- Liaison to Farm Bureau Farm Days for “Ag in the Classroom” at Hyder-Burks Pavilion. March 16-17, 2010
- Presentation for Tennessee AgriLeadership 20/20 regarding Organic Program (with Randy Dodson). January 21, 2010.
- Attended and aided with booth set-up for *Ag Day on Capitol Hill*, April 13, 2010.
- Attended Farm Bureau Women’s Meeting, Feb 2010

**TENNESSEE TECH UNIVERSITY  
SCHOOL OF SCHOOL OF HUMAN ECOLOGY  
ANNUAL REPORT 2010-2011**

The following information is a reflection of the accomplishments of the School of Human Ecology for the 2010-2011 Academic year, and for the past five years where appropriate.

**VI. STATUS REGARDING FOLLOWING DELIVERABLES**

**a. RETENTION (Fall to Spring and Fall to Fall for First Time Freshmen Cohorts)**

	2006		2007		2008		2009		2010	
	Fall-Spring %	Fall-Fall %	Fall-Spring %	Fall-Fall %	Fall-Spring %	Fall-Fall %	Fall-Spring %	Fall-Fall %	Fall-Spring %	Fall-Fall %
<b>SCHOOL TOTALS</b>	<b>95.45</b>	<b>90.91</b>	<b>79.17</b>	<b>45.83</b>	<b>100</b>	<b>80</b>	<b>93.10</b>	<b>75.86</b>	<b>95.0</b>	<b>NA</b>

**b. ENROLLMENT—Fall Semesters**

	2006	2007	2008	2009	2010
<b>SCHOOL TOTALS</b>	<b>214</b>	<b>202</b>	<b>194</b>	<b>175</b>	<b>201</b>
Child Development & Family Relations	22	33	58	31	36
Family & Consumer Sciences Education	22	19	13	14	17
Food, Nutrition, & Dietetics	69	68	54	57	68
Housing & Design	56	43	36	43	44
Merchandising & Design	45	39	33	30	34

**c. NUMBER DEGREES AWARDED (Summer, Fall, Spring for each year)**

	2006-07	2007-08	2008-09	2009-10	2010-11
<b>SCHOOL TOTALS</b>	<b>45</b>	<b>47</b>	<b>52</b>	<b>39</b>	<b>45</b>
Child Development & Family Relations	5	8	13	7	14
Family & Consumer Sciences Education	6	4	5	5	1
Food, Nutrition, & Dietetics	11	15	18	15	12
Housing & Design	12	15	8	6	10
Merchandising & Design	11	5	8	6	8

**d. DEGREE INNOVATIONS**

**Child Life** – Proposed Spring 2010—Approved Spring 2010 to offer in Fall 2011

- The curriculum for the Child Life (CL) option within the Child Development and Family Relations concentration was approved. Refinement of this curriculum is planned to occur in 2011/12.
- Instructional supplies were procured for the CL degree program.

#### **Family and Consumer Sciences Education –**

- The curriculum for the Family and Consumer Sciences Education was revised to meet the state mandated residency for teachers in training and approved by the UCC.
- Because there are a number of students entering the HEED (FACS) program who hold B.S. degrees, five HEED graduate courses were developed and approved. This innovation allows the student to earn a graduate degree in curriculum and instruction, qualify for a FACS teacher's license, and receive updated content information.

#### **Child Development and Family Relations; Family and Consumer Sciences Education; Food, Nutrition, and Dietetics; Housing and Design; and Merchandising and Design Concentrations -**

- To provide opportunity for students to build a stronger HEC concentration program and thus be more competitive in the job market, the curricula in Human Ecology were revised to allow a greater choice of HEC coursework.
- The faculty studied the presentation of the HEC core around foundational concepts of the discipline rather than topical/content driven courses. New courses, curriculum changes, and the impact upon each concentration will be presented at the first fall 2011 faculty meeting.

#### **Development of a Masters Online Degree**

- Three additional courses are being developed Summer 2011 and the curriculum will be presented for approval to the faculty at the first fall 2011 faculty meeting. The letter of intent and other paperwork are being prepared during Summer 2011.

### **VII. COLLABORATIVE EFFORTS**

- *Courses and Curriculum*
  1. Melinda Swafford and Lee Ann Jolley collaborated with the College of Education in the development of two new graduate level courses in Human Ecology (HEC 7600 Family Theories and Issues Impacting Families and HEC 7200 Theories and Applications in Child Development) for the Exceptional Learning doctoral program
  2. Melinda Anderson collaborated with School of Nursing for use of the simulation labs in the HEC dietetics (DPD) program.
  3. Melinda Anderson collaboration with EXPW to add Wellness Course to the General Education requirements.
  4. Jerri Winningham and Sue Bailey developed articulations for each of the five SOHE concentrations and the three community colleges (RSCC, MSCC, and VSCC).
- *Space Renovation*

Standards sets for housing and interior design programs by the Council for Interior Design Accreditation include spaces for exhibiting student projects and for research and teaching lighting. In 2008/09, JW 201 was renovated for an exhibition gallery. In 2009/10, Drs. Jeff Plant and Sue Bailey, the TTU Facilities and Maintenance, and Williams Electrical Supplies collaborated on incorporating lighting in this same space. The goal was to design a comprehensive lighting area where lighting terminology and efficient lighting techniques for residential and commercial space are taught. The installation was completed in summer of 2010. During 2009-11, Plant and Liz Mullens with TTU students conducted the first lighting research project.

- *Community Partners*
  1. Thirty-nine SOHE senior students participated in Service Learning Courses (internships, field experiences and student teaching) with 52 community agencies and businesses.
  2. The SOHE collaborated with the UT-K to conduct the annual 4-H Design Camp. Eighty 4-Hers and 18 volunteers and agents guided the students through three days of an intensive exploration of design. Dr. Bailey gave presentations on design and human ecology and recruitment to TTU.
  3. \$1,000, Project Hometown Help, Baxter Rural Health Care Clinic, Middle Tennessee Natural Gas. (Grant held in the Clinic)
- *Grant Collaboration (TTU)*
  1. \$11,889, Howard, M. (PI) and Swafford, M. (Support Personnel), Healthy Start for Upper Cumberland Families and Young Children, Stephens Center (grant held in the College of Education)
  2. \$55,539, Dainty, H., (PI) Jackson, E., & Swafford, M. (Support Personnel) TDE Special Education Summer Institute Grant Strand II (grant held in the College of Education)
  3. Anderson, M. and Campus Recreation Center. Collection of Wellness Profile Data from University 1020 Courses, , 2009-present
  4. Anderson, M., Jackson, B., and Campus Housing, Dorm Scales Project, August 2010-present

## VIII. PROGRAMS AND PROJECTS

- **SOHE Strategic Goal: students will engage in professional development and will exhibit professionalism in educational and career environments –**
  1. Nine students and one guest participated in the CoverNY Fashion Study Tour led by Dr. Lizabeth Mullens. Professor Lee Ann Jolley and Adjunct Professor Rebecca Norwood went on the tour.
  2. Fifteen students participated in the Mexican Adventure led by Dr. Jeff Plant in January 2011. Students had the opportunity to learn colonial architecture, archeology and Mexican culture during the nine-day stay in and around Puebla, Mexico City, and the Port of Veracruz.
  3. During May 2011, nine students under the leadership of Dr. Lizabeth Mullens studied the inside of the fashion industry in Los Angeles, CA, including the California Market Center, Fashion Institute of Design and Merchandising, and designer Yotam Solomon.

4. Thirty-nine SOHE seniors were placed in community agencies and businesses during 2010/11. The site supervisors' ratings of the professionalism of the students ranked them between 4.0-5.0 where 5 is the highest score possible.
- **SOHE Strategic Goal: strengthen professionalism & professional opportunities –**
    1. A successful search for a faculty member for the Child Life program was conducted. Ms. Cara Sisk, M.S., CLS, will join the SOHE faculty August 1, 2011.
    2. Each of the faculty members in the SOHE participated in at least one national level professional opportunity during 2010/11. (See Faculty Annual Reports for details)
  - **SOHE Strategic Goal: deploy/engage recruitment & marketing strategies -**

During 2010/11, the SOHE has worked closely with TTU Public Affairs to develop marketing products.

    1. An “Outstanding” bulletin board was installed in SH with the purpose of displaying outstanding alumni, friends, and students (a different student is featured monthly).
    2. Mini brochures and posters were designed around the “Awesome Eagle” promotion. The posters are currently being used for recruitment. The mini brochures will be available in August 2011.
    3. An electronic kiosk at the entrance to the School of Human Ecology is being assembled. The power point driven presentation for the kiosk has been developed and the equipment is being installed during summer 2011.
    4. Power point presentations, again around the “Awesome Eagle” promotion, have been developed for each concentration for recruitment purposes and distributed to faculty.
    5. A SOHE Facebook page was created with the assistance of Matthew Gann and student Tracy LaFevre.
  - **SOHE Strategic Goal: sustain TTU SOHE programs for current and future students and other constituents. –**

The SOHE, with the assistance of Andy Wilson, AVP for University Development, has developed a plan to increase the HEC Enrichment Endowment during the next five years. An enrichment advisory council will provide leadership to the unit in this effort. Contacts for service on the board are being made during summer 2011.

## IX. HIGHLIGHTS OF KEY AREAS

### a. FACULTY RESEARCH

#### Awarded Grants (research and service)

- \$100,000, Anderson, M. (PI) and others, Hydroponics, USDA, Completed final report, June, 2010.
- \$3,000, Anderson, M., PI . Use of Small Group Intervention to Improve Health Behaviors in Rural College Freshmen. SOHE Faculty Grant. (2009-2011)
- \$18,050, Bailey, S., Swafford, M., and Jolley, L., CO-PI, Family and Consumer Sciences Education Grant, TDOE,
- \$408,321, Bailey, S., PI, TECTA Grant, TSU, TDHS,
- \$70,000, Bailey, S., PI< TECTA New Initiative Funds,
- \$555,317, Bailey, S. and Jolley, L., CO-PI TN-CCR&R, Signal Center, TDHS,

- \$3000, Werkheiser, Rachel, Bailey, S., PI, and Elliott, Tommy. Using Algorithms to Confirm Rachel Ray's Thirty Minute Menus. (2009-2011)
- \$6,000, Plant, J. and Mullens, L., CO-PI, Teaching Methods for Lighting. SOHE Faculty Grant (2009-2011)
- \$3,000, Swafford, M. & Jolley, L.A. *Using the intergenerational model, stress, and attachment patterns to identify familial risk factors.* SOHE Grant ( 2010)

#### **Published Abstracts**

- Jolley, L. & Swafford, M. (2010). *Connecting the dots.....Attachment patterns and familial risk factors in parenting.* DVD Research to Practice: American Association for Family and Consumer Sciences Annual Meeting, Cleveland, OH
- Swafford, M. & Jolley, L. (2010). *Using the intergenerational model to identify stress, attachment patterns, and familial risk factors in parenting.* Tennessee Association for Family and Consumer Sciences State Conference Abstract Publication, Pigeon Forge, TN.

#### **Poster/Oral Presentations**

- Bailey, S (2010). *Effective leadership during times of financial uncertainty.* American Association of Family and Consumer Sciences Annual Meeting, Cleveland, Ohio (Invited)
- Bailey, S (2010). *Dual Credit: TTU HEC Courses and TN FACS Classes.* Tennessee Career and Technical Education Annual Meeting. Murfreesboro, TN (Invited)
- Jolley, L. & Swafford, M. (2010). *Connecting the dots.....Attachment patterns and familial risk factors in parenting.* Research to Practice Rounds: American Association for Family and Consumer Sciences Annual Conference and Expo, Cleveland, OH
- Swafford, M. & Jolley, L. (2010). *Using the intergenerational model to identify stress, attachment patterns, and familial risk factors in parenting.* Tennessee Association for Family and Consumer Sciences State Conference, Pigeon Forge, TN
- Jolley, L. (2010). *Attention getting! Excitement building! Creative ideas for facilitating developmentally appropriate play in young children.* Tennessee Career and Technical Education Annual Meeting, Murfreesboro, TN
- Jolley, L. (2010). *Attention getting! Excitement building! Creative ideas for facilitating developmentally appropriate play in young children.* Tennessee Association for Education of Young Children State Conference, Chattanooga, TN
- Burden, G., Townsend, J., Swafford, M. (2010). *Helping student graduate with distinction while jump-starting their post secondary program.* Tennessee's School Counselor Conference, Murfreesboro, TN (Panel member and oral presentation.)

#### **Articles in Refereed Journals**

- Bailey, S., (2010) Handshake May Have a Shaky Future. *Journal of Family and Consumer Sciences*, Volume 102, Issue 1.

- Bailey, S., (2010) In Memory of Irma Nisbet Nixen. *Journal of Family and Consumer Sciences*, Volume 102, Issue 1. (article was solicited by editor and not reviewed, but published in this refereed journal)
- Swafford, M. & Jolley, L.A., (2010). Position paper on corporal punishment in public schools, K-3rd. *Tennessee's Children*. Tennessee Association for Education of Young Children.
- Swafford, M., Wingate, K.O., Zagumny, L. & Richey, D., (2010). Family-centeredness and empowerment in early intervention: Perspectives from families living in poverty and single-parent families. *Exceptionality*. Council for Exceptional Children

#### **Articles in Non Refereed Publications**

- Bailey, S. (2010). *Recipe for Success*. Inspirational Thoughts ...Recipes for Success. Child Care Resource and Referral Tennessee Network.
- Swafford, M., Jolley, L.A., Southward, C.L., (2011). The student dress code debate. *Techniques*. (two articles were published in 2011 – January and February.)

#### **b. BOOKS PUBLISHED**

- Bailey, S. (2010). School of Human Ecology Student Handbook, TTU Printing Services.

#### **c. INNOVATION RESULTING IN SAVINGS, EFFICIENCY AND/OR IMPROVED OUTCOMES**

- Facebook pages developed for the SOHE and the Food, Nutrition, and Dietetics Club allows for more efficient communications and allows friends to communicate.

#### **d. FACULTY, STAFF AND STUDENT AWARDS**

- Sue Bailey, Mace-Bearer, TTU Graduation
- Lee Ann Jolley, One of two CAHS faculty members selected to present a workshop on Innovative Teaching Strategies that Lead to High Student Evaluations.
- Jeff Plant received the Honor Award from the Tennessee Association of Family and Consumer Sciences
- Leah Messengill, HEC senior, placed second in the national level AAFCS student research paper competition
- Rachel Werkheiser won first place in the student research poster event at the Tennessee Dietetics Association Annual Conference

#### **e. COMMUNITY SERVICE ACTIVITIES**

**(Only state and national activities listed. For university, regional, and local service, see faculty annual reports)**

- Melinda Anderson elected President-Elect of the Tennessee Dietetics Association
- Melinda Anderson reviewer for Wiley Publishing



- Sue Bailey, Melinda Swafford, and Lee Ann Jolley serve the Tennessee Department of Education as Family and Consumer Sciences Teacher Educators.
- Sue Bailey served as research reviewer for the AAFCS 2011 Annual Conference
- Sue Bailey reviewer for Pearson Publications; Journal of Family and Consumer Sciences; and TNFACS-ER Website.
- Sue Bailey site visitor for Council for Accreditation – AAFCS
- Sue Bailey member Nominating Committee, Kappa Omicron Nu
- Sue Bailey member Tennessee Early Childhood Higher Education Alliance
- Sue Bailey member Tennessee Pre K-K State Advisory Council
- Sue Bailey member TECTA – State Steering Committee
- Cathy Cunningham reviewer for Jones and Bartlett Publishers
- Lee Ann Jolley reviewer of Development of children and adolescents by Travers
- Lee Ann Jolley reviewer of Adulthood: an introduction by Curl-Langer
- Jeff Plant served as President of the Tennessee Association of Family and Consumer Sciences
- Jeff Plant assisted in the production of *Light for a New Century: AAFCS Centennial Celebration DVD* (2010) for the American Association of Family and Consumer Sciences
- Jeff Plant serves on the State Board of the Tennessee Association of Family and Consumer Sciences
- Jeff Plant serves as an American Association of Family and Consumer Sciences Senator from Tennessee
- Melinda Swafford serves on the University of Tennessee and Tennessee State University Extension Services State Advisory Board
- Melinda Swafford reviewer for the Journal of Family and Consumer Sciences, Tennessee's Children, and TNFACS-ER Website
- Melinda Swafford serves Arc of Tennessee as the Executive Board Member at Large

**TENNESSEE TECH UNIVERSITY  
WHITSON-HESTER SCHOOL OF NURSING  
ANNUAL REPORT 2010-2011**

The following information is a reflection of the accomplishments of Whitson-Hester School of Nursing (WH-SON) for the 2010-2011 Academic year, and for the past five years where appropriate.

**X. STATUS REGARDING FOLLOWING DELIVERABLES**

**a. RETENTION (Fall to Spring and Fall to Fall for First Time Freshmen Cohorts)**

	2006		2007		2008		2009		2010	
	Fall-Spring %	Fall-Fall %	Fall-Spring %	Fall-Fall %	Fall-Spring %	Fall-Fall %	Fall-Spring %	Fall-Fall %	Fall-Spring %	Fall-Fall %
<b>SCHOOL TOTALS</b>	92.31	<b>82.05</b>	90.83	<b>77.98</b>	98.11	<b>82.08</b>	95.24	<b>84.35</b>	<b>92.19</b>	NA

**b. ENROLLMENT—Fall Semesters**

	2006	2007	2008	2009	2010
<b>SCHOOL TOTALS</b>	<b>366</b>	<b>432</b>	<b>549</b>	<b>613</b>	<b>592</b>
BSN – Upper Division	99	118	160	183	190
Lower Division Nursing Majors	238	286	346	389	361
RODP MSN	29	28	43	41	41

**c. NUMBER DEGREES AWARDED (Summer, Fall, Spring for each year)**

	2006-07	2007-08	2008-09	2009-10	2010-11
<b>SCHOOL TOTALS</b>	<b>48</b>	<b>57</b>	<b>74</b>	<b>95</b>	<b>103</b>
BSN – Upper Division	<b>47</b>	<b>46</b>	<b>67</b>	<b>81</b>	<b>91</b>
RODP MSN	<b>1</b>	<b>11</b>	<b>7</b>	<b>14</b>	<b>12</b>

**d. DEGREE INNOVATIONS**

*Completed*

**Increased Faculty Involvement in Admission Process – February 2011**

- Faculty revisited the process that was being used to admit students. Although the policy stated an option for faculty to review the academic records of students and make admission decisions, the practice had been to admit student solely by ranking Grade Point Averages (GPAs), admitting 48-56 students with the highest GPAs. Due to attrition, based on failures as well as students changing majors after finding that nursing was no longer their desired focus, faculty voted to increase faculty involvement in admission

decisions. Beginning with applicants to enter Fall 2011, members of the Admissions & Credit Committee reviewed the entire academic records of applicants to recommend admission or denial of admission to the Upper-Division Nursing Program.

### **Post-Master's Certificate Programs – Proposed Fall 2010; Approved May 2011**

- There is a high demand in health care settings for nurses with skills sets and credentials in information management, nursing administration, and nursing education. The Whitson-Hester School of Nursing, as part of the Tennessee Board of Regents' Online Degree Program, offers individuals, who possess master's degrees in nursing (MSN) with an area of specialization, the opportunity to develop a second area of specialization via a post-master's certificate program. These certificate programs prepare those who already hold an MSN to meet the growing demand for nurses knowledgeable in the field of information management in healthcare, nursing administration, or nursing education without requiring nurses to complete a second master's degree.

### ***In Process***

#### **Conversion to Five Semesters - Proposed Fall 2010; Approved March 2011; Transition In Process**

- In the Whitson-Hester School of Nursing's (WH-SON) four-semester upper-division nursing program, students must learn the fundamental skills of nursing as well as assessment skills while simultaneously being asked to learn and apply complex disease processes and nursing care in their first medical-surgical course. This complexity has an impact on the students' subsequent learning in the remainder of the clinical courses, particularly in the medical-surgical nursing courses, and causes high levels of stress for students. Revision of the curriculum to be offered over five semesters aligns with a nationwide trend that allows students to begin the upper-division program in the second semester of their sophomore year. The five-semester upper division program will be more conducive to learning, appropriately sequencing increasing complexity.

#### **RN to BSN Completion Program – In Process**

- Currently, the WH-SON offers Registered Nurses who possess either an Associate in Applied Sciences (AAS) or an Associate Degree in Nursing (ADN) the opportunity to complete the Bachelor of Science in Nursing degree (BSN). Enrollment in the current RN-BSN program is minimal and plans have been initiated to revise the program to be offered primarily online and creating a program consistent with the needs of an employed Registered Nurses. Data are being collected from the community to inform these revisions and faculty will begin revising the program Fall 2011.

#### **Online Certificate Programs, Credit and Non-Credit – In process**

- In response to community needs, faculty members are in the process of evaluating the need for specific certificate programs at a variety of levels. Interest from the community has been for programs that address preparation for certification as well as other credit and

non-credit bearing programs. Currently, data are being collected that will allow the faculty to prioritize the type and order of certificate programs that should be developed and offered. Further planning for programs will begin in Fall 2011.

#### **e. COLLABORATIVE EFFORTS**

Collaboration and “interprofessional” linkages are cornerstones of nursing education. Faculty members in the WH-SON work in partnerships and along with colleagues within the University, professional organizations and the community. The following are selected collaborative efforts with additional collaboration evident in faculty scholarship, innovative practices, and community service.

#### ***University Collaboration***

**Study Abroad – 2010** – Dr. Melissa Geist, Assistant Professor of Nursing, TTU’s Study Abroad Program, and Colleagues from TTU

- Working with Tennessee Technological University’s (TTU’s) Study Abroad Program, Dr. Melissa Geist, Assistant Professor of Nursing, Dean C. Pat Bagley, College of Agriculture and Human Sciences, Dr. Jed Young, School of Agriculture, Dr. Jeff Plant, School of Human Ecology, and Dr. Marketta Laurila, Chair of the Department of Foreign Language, traveled with twenty-one students to multiple cities in Mexico. The trip served as a cultural immersion trip for students who had not previously traveled internationally. The ten-day travel included experiences in Mexico City, Puebla, Taxco, and Cholula. In addition to serving as a faculty member, Dr. Geist served as the nurse consultant and health director for the group.

**University Health Fair – April 2011** - Ann Hellman, Assistant Professor of Nursing, and Ramona Pennington, Health Promotion Coordinator, Campus Recreation

- As part of the TTU Health Fair, seventeen senior student nurses, supervised by Prof. Ann Hellman, worked in groups to present educational sessions of interest to other students. Students presented the following: 1) “STD’s: What you don’t know can hurt you!” 2) “Smoke, Dip, or Chew – We want to talk to you!” and 3) “Fit or Fat,” addressing the “Freshman Fifteen.” Students supplemented their educational programs with activities that included handouts, Sponge lung, straw and lung display, and measurements of height, weight, and Body Mass Index.

**Teacher Quality Initiative Program (TQI) – 2010-2011** – Dr. Melissa Geist and Prof. Bedelia Russell, Assistant Professors of Nursing, Stephen Robinson, Campus Coordinator for the Learning about Learning Program (LAL), and faculty campus wide.

- LAL addresses a specific aspect of the Tennessee Board of Regents TQI. Faculty selected to participate in LAL are identified leaders and expert teachers who assist in familiarizing

new faculty with “evidence-based” teaching practices, classroom strategies that have been shown to be effective. Dr. Melissa Geist and Prof. Bedelia Russell were selected to participate in TQI. Dr. Geist served as a mentor for five new faculty members, helping them develop interactive lectures, using “How People Learn” design principles. Prof. Russell, selected to work with LAL, mentored four new faculty members in the Whitson-Hester School of Nursing, providing invaluable assistance as they acclimated to the faculty role and developed as effective teachers.

### ***Community Collaboration***

#### **Development Council, Whitson-Hester School of Nursing.**

- Community involvement is crucial for the growth, development, and sustainability of the WH-SON and its programs. Many of the initiatives that support the students, faculty, and programs of the School are the direct result of the support extended by the community. A collaborative relationship with the members of the WH-SON Development Council is a key aspect of this support. Dean Pat Bagley, Dr. Sherry Gaines, Director of the WH-SON, Mr. Jim Brock, Development Officer, Dr. Kim Hanna, alumnus and faculty member of the WH-SON, as well as other alumni and community leaders work together to secure support for student scholarships, faculty development, and programmatic needs. This year, the Development Council allocated seventy-six nursing scholarships totaling approximately \$100,000.

**Upper Cumberland Affiliate of the Susan G. Komen Foundation** – Prof. Rachel Hall & Prof. Barbara Jared, Upper Cumberland Affiliate of the Susan G. Komen Foundation for the Cure.

- Prof. Barbara Jared served as a Board member for the Upper Cumberland Affiliate of Susan G. Komen Foundation (term ended September 2010). Currently, Prof. Rachel Hall serves on the Grants Development and Oversight Committee of the Upper Cumberland Affiliate of the Susan G. Komen Foundation. As part of Prof. Hall’s involvement, she represented the Foundation at a conference held in Dallas, TX. The conference “How to Develop the Community Profile” was of interest to the Affiliate as it collects data needed to improve breast cancer screening and prevention in the Upper Cumberland Region.

**Highlands Health Care Initiative** – Dr. Sherry Gaines, Director of the Whitson-Hester School of Nursing, staff from the Regional Health Department, staff from The Highland Initiative of Tennessee, and other Community leaders.

- In January 2011, Dr. Sherry Gaines was invited to serve as a member of the newly established Highlands Health Care Committee, comprised of members from the Regional Health Department and other community leaders. The purpose of the committee is to address health care opportunities in the Upper Cumberland Region, identifying needs and

solutions to improve the health of the Region's residents. This entity is closely aligned to the Highlands Workforce Development and Education Committee, whose members actively work on regional educational opportunities. The Highland Initiative of Tennessee oversees both committees.

**“Get Fit Highlands” Subcommittee, Highlands Health Care Initiative** – Prof. Shelia Hurley, Assistant Professor of Nursing, Dr. J. P. Barfield, Chairman, Department of Exercise Science, Physical Education, and Wellness, members of the Highland Health Care Initiative and other community leaders.

- In February 2011, the Highlands Health Care Committee established a subcommittee to plan and promote a challenge for residents of the Upper Cumberland Region to engage in fitness activities. Prof. Shelia Hurley and Dr. J. P. Barfield along with Dr. Sherry Gaines represent Tennessee Tech University in this collaborative endeavor. A challenge will be initiated Fall 2011.

**Cookeville Regional Medical Center Foundation (CRMC) and Hospice Fund Hospice Education Seminar – 2010-2011** - Dr. Sherry Gaines, Mr. Gary Curto, Chairman of the CRMC Foundation, Hospice Fund Board Members, Upper Cumberland Hospice Providers

- The CRMC Foundation, Hospice Fund, and the Whitson-Hester School of Nursing are collaborating to raise awareness and understanding about hospice care in general and hospice services in the Upper Cumberland Region. Dr. Sherry Gaines represents the WH-SON, serving as a member of the planning committee at large and the Sub-Committee on Program Planning. The group will hold the first annual Hospice Education Seminar, “Hospice...It’s More than you Think” on October 21, 2011 in the Nursing and Health Services Building. Student nurses and faculty from the WH-SON will participate in the conference. Dr. Gaines is also a member of a fundraising committee, working with Dr. Sid Gilbreath of the Hospice Fund and other community leaders to raise funds to benefit the WH-SON and the Hospice Fund.

#### **f. PROGRAMS AND PROJECTS**

##### **Co-Sponsorship of Community and Professional Conferences**

- Patient Safety Seminar. Conference hosted by Iota Beta Chapter of Sigma Theta Tau. Keynote speakers: Sorrel King, author and patient advocate, Belinda Mandrell, Ph.D., founder of the Josie King Foundation, and Joy Wachs, Ph.D, RN, PHCNS-BC, FAAOHN, researcher at St. Jude’s Children’s Hospital. Primary planners and conference organizers: Prof. Linda McQuiston, President of the Iota Beta Chapter of Sigma Theta Tau and Prof. Ann Hellman, both Assistant Professors in the WH-SON.
- Physiology, Treatment, and Prevention of Breast Cancer. Conference for county extension personnel, community leaders, and nurses to increase awareness of the physiology of breast cancer as well as prevention/intervention. Co-sponsored with the Upper Cumberland Region Susan G. Komen Foundation.

### **Workshops/Presentations to Improve Teaching**

- Workshop for high school teachers in the RETain US summer program. Introduced and trained faculty in the Legacy Cycle. Observed and evaluation teachers' Legacy Cycles (M. J. Geist).
- Presentation to TTU faculty, *HPL Theory and Instructional Design Tools to Engage Learners* (October 2010). (M. J. Geist).

### **Education Consultation/Faculty Development**

- NCLEX-RN preparatory workshops for nursing students nationwide (M. Geist, J. J. Duvall, S. Hurley).
- Faculty development workshops for nursing faculty nationwide, including content on writing test items for NCLEX success, teaching approaches to improve clinical decision making, and curriculum analysis (M. Geist).
- Academic Coaching (J. J. Duvall)
- Online testing. Camtasia presentation to assist WH-SON faculty members with implementation of online testing. (B. H. Russell)

### **g. HIGHLIGHTS OF KEY AREAS**

#### *Community Support*

- **\$4 Million Donation of & Renaming of the School: Whitson-Hester School of Nursing**
  - Fall 2010, Tennessee Technological University received a \$4 million donation from Mr. Larry Hester. Mr. Hester's gift, in honor of his late wife, Jean Whitson Hester, represented the largest single one-time gift commitment in the university's history. The gift reflects the late Jean Whitson Hester's inspiration to "pay it forward" in the spirit of her grandfather, Jere Whitson, who donated farmland on which the TTU campus now sits. Mr. Jere Whitson was one of the original founders of Dixie College, the church-based forerunner of TTU. The endowment includes three components, a scholarship based on academic achievement and financial need, a \$1,000 merit award for academic achievement, and an equipment renewal and modernization fund to assist the School of Nursing in maintaining state-of-the-art training equipment. In recognition of Mr. Hester's support and in honor of his late wife, TTU received approval from the Tennessee Board of Regents to rename the school, the Whitson-Hester School of Nursing.

#### *New Appointments*

- **Appointment of New Director of the Whitson-Hester School of Nursing.**

- On October 1, 2010, Dr. Sherry K. Gaines assumed the position of Director of the Whitson-Hester School of Nursing. Dr. Gaines joined Tennessee Technological University after having served in a variety of faculty and administrative positions at Georgia State University in Atlanta, GA. Dr. Sheila Green resigned as Director of the School spring 2010. Dr. Nancy Granberry, faculty member from East Tennessee State University, served as Interim Director summer 2010 and Prof. Bedelia Russell, as a Special Assistant to the Dean, assumed the responsibilities September 2010.

- **Appointment of Faculty Member as Assistant Dean, College of Agriculture and Human Sciences.**

- Beginning Fall 2011, Dr. Melissa Geist, Assistant Professor of Nursing, was appointed Assistant Dean of the College of Agriculture and Human Sciences. Dr. Geist is an outstanding teacher, scholar, and mentor in the Whitson-Hester School of Nursing. She is recognized for her expertise in the use of Legacy Cycles to promote active learning. Her application of this expertise in nursing is an invaluable contribution. Students consistently rate Dr. Geist as one of the most outstanding teachers in the School. Her appointment as Assistant Dean has allowed an opportunity to expand her mentoring and to apply her leadership skills to support the College, School, and University.

### *Quality*

- **Progress toward goal of a primarily doctoral-prepared faculty.**

- Seven faculty members are actively engaged in doctoral programs and one faculty member has been accepted to begin a doctoral program Fall 2011. Professors Rachel Hall, Ann Hellman, Barbara Jared, and Bedelia Russell are pursuing a Ph.D. in Nursing at East Tennessee State University; Prof. Judy Duvall is pursuing a Doctor of Education at the University of Alabama – Tuscaloosa; and Professors Linda McQuiston and Sharon Thompson are pursuing Ph.D.s in Nursing at Nova Southeastern University and University of Texas-Tyler, respectively. Professors Duvall, McQuiston, and Thompson have completed comprehensive examinations and are now conducting dissertation studies. Prof. Sue has been accepted into the Ph.D. program at Vanderbilt University School of Nursing.

- **NCLEX-RN Performance**

- The NCLEX-RN pass rate for the WH-SON continues to exceed national averages.

### **h. FACULTY RESEARCH AND SCHOLARLY ACTIVITIES**



- **Awarded Grants**

- Geist, M. J. *Mastering medication calculations via access to real-world visual media*. Quality Enhancement Plan, Tennessee Technological University. Funded, \$1,500.
- McQuiston, L., & Hanna, K. *Peer coaching between grading seniors and incoming junior nursing students in the clinical setting*. Internal Research Grant Program, Tennessee Technological University. Funded, \$5,000.

- **Submitted Grants**

- Gaines, S.K., Howard, T., & Piras, S. (2011). *Nursing Workforce Diversity: Reach and Educate to Change Health Care in Middle Tennessee (REACH)*. Nursing Workforce Diversity Program, Health Resources and Services Administration. Requested \$1,073,128 for three years. In review, awaiting review results.
- Geist, M.J., Legacy Cycle Specialist and Senior Personnel. A. Shiraz (P.I.), & Anthony, H. (Co-P.I.). *Engineering & Technology Career Awareness through Legacy Cycles (ETCALC) supported by a Cyberlearning Environment*. Submitted to the National Science Foundation. Requested \$449,883.
- Jared, B. *Implementation of Remote Post-Clinical Conference for Students in Community Health: Clinical Placement in Rural Communities Via Drop.io and online Discussion Board*. Submitted to the Health Information Technology Scholar Program (HITS). Requested \$3,000.
- Jared, B., & Hellman, A. *Pink Embraces Purple Pride: A Campus Model of Breast Health*. Submitted to the Upper Cumberland Susan G. Komen Foundation Large Grant Program. Requested \$25,000.

- **Published Abstracts**

- Duvall, J. J. with Beuk, D., & Turner, V. (July 2010). Project-based Learning and Peripheral Vascular Disease. Proceedings of the Sigma Theta Tau International 21<sup>st</sup> International Research Congress, Orlando, FL. (Refereed).
- Anthony, H., Geist, M.J., Pardue, S., Abdelrahman, M., & Thurber, E. (June 2010). *Legacy Cycle as a Vehicle for Transference of Research to the Classroom*. Proceedings of the 2010 Annual Conference and Exposition of the American Society of Engineering Education. (Refereed).

- **Poster/Oral Paper Presentations**

- Duvall, J. J., Hall, R., & Lee, E. (November 2010). *Developing Clinical Judgment Through Simulation*. Third Annual Tennessee Simulation Conference, Nashville, TN. (Oral Presentation) (Refereed).

- Duvall, J. J., Hall, R., & Lee, E. (November 2010). *Use of Simulation as a Capstone Competency Evaluation*. Third Annual Tennessee Simulation Conference, Nashville, TN. (Oral Presentation) (Refereed).
- Duvall, J. J. (August 2010). *Project-based Learning and Peripheral Vascular Disease*. The University of Alabama - Tuscaloosa. (Poster).
- Duvall, J. J. (August 2010). *Use of Private File Sharing Service to Improve the Skill of Hand-Off Report*. The University of Alabama - Tuscaloosa. (Poster).
- Duvall, J. J. with Beuk, D., & Turner, V. (July 2010). *Project-based Learning and Peripheral Vascular Disease*. Sigma Theta Tau International 21<sup>st</sup> International Research Congress, Orlando, FL. (Poster) (Refereed).
- Gaines, S. K. (2010). *State of Nursing Education*. Cookeville Lion's Club, Cookeville, TN. (Invited).
- Gaines, S. K. (2010). *Nursing Education and Vision for the Whitson-Hester School of Nursing*. Cookeville Chapter of the Rotary Club International. (Invited).
- Gaines, S. K. (2011). *Nursing Education Today*. Regional Health Council, Regional Health Department, Cookeville, TN. (Invited).
- Geist, M.J. (2010). *Designing Classroom Environments that Enable Students to Reason, Collaborate, and Communicate*. Tennessee Technological University Center for Manufacturing Research: RETain US. (Invited)
- Geist, M.J. with Anthony, H., Pardue, S., Abdelrahman, M., & Thurber, E. (June 2010). *Legacy Cycle as a Vehicle for Transference of Research to the Classroom*. 2010 Annual Conference and Exposition of the American Society of Engineering Education. (Oral Presentation) (Refereed).
- Green, S., & Hanna, K. (December 2010). *The Scholarship of Accreditation Review: Evidence Based Nursing Practice in the School of Nursing Academic Setting*. Induction Ceremony, Iota Beta Chapter of Sigma Theta Tau International, TTU Whitson-Hester School of Nursing, Cookeville, TN. (Poster) (Invited).
- Howard, T. (December 2010). *Breastfeeding Multiples*. Induction Ceremony, Iota Beta Chapter of Sigma Theta Tau International, TTU Whitson-Hester School of Nursing, Cookeville, TN. (Poster Presentation). (Invited).
- Reeves, S. (November 2010). *Medical-Psychiatric Simulation*. Third Annual Tennessee Simulation Conference, Nashville, TN. (Oral Presentation) (Refereed).
- McQuiston, L., & Hanna, K. (December 2010). *Peer Coaching Between Grading Seniors and Incoming Junior Nursing Students in the Clinical Setting*. Induction Ceremony, Iota Beta Chapter of Sigma Theta Tau International, TTU Whitson-Hester School of Nursing, Cookeville, TN. (Oral Presentation). (Invited).
- Thompson, S. S. (Spring 2011). Keynote address: *New Inductee Challenges*. Induction Ceremony, Iota Beta Chapter of Sigma Theta Tau International, TTU Whitson-Hester School of Nursing, Cookeville, TN. (Invited).

- **Articles in Refereed Journals**

- Duvall, J., & Andrews, D. (2010). Using a structured review of the literature to identify key factors associated with the current nursing shortage. *Journal of Professional Nursing*, 26(5), p. 309-317.
- Piras, S., & Dahlstrom, M. (2010). Get the facts on kidney cancer. *Nursing Made Incredibly Easy*.

- **Review and Content Expert Activities**

- Duvall, J. J. Member, American Association of Critical Care Nurses Continuing Education Review Panel.
- Gaines, S. K. Grant Reviewer, Human Resources and Services Administration (appointed Spring 2011).
- Geist, M. J. Book Review: Adams, M., & Koch, R. (2010). *Pharmacology: Connection to Practice*. Pearson Health Sciences.
- Geist, M. J. American Nurses Credentialing Center (ANCC) Content Expert Panel for Pediatric Nurse Practitioner Certifying Exam.
- Geist, M. J. Book Review: Herman, J., Manning, L., & Zager, L. (2011). *The Eight-Step Approach to Teaching Clinical Nursing*. Duluth, GA: ICAN.
- Geist, M.J. Nominee Review and Selection, TTU's Caplenor Award Committee
- Geist, M. J. Grant Reviewer, TTU Internal Research Grant Program, TTU Research Committee.
- Hall, R. Grant Reviewer, Upper Cumberland Region Susan G. Komen Foundation Large and Small Research Programs.
- Hellman, A. Policy Reviewer (as needed), Genesis House, local domestic violence shelter.
- Russell, B. H. Content Reviewer (four chapters). *Human pathophysiology: Introductory concepts and clinical connections*. Published 2010: F.A. Davis.
- Thompson, S. S. Member, Standards Review Committee. Editor and author for seven of fourteen national standards. 2010 *Scope and Standards of Practice for Professional Ambulatory Care Nursing* (8<sup>th</sup> ed.). American Academy of Ambulatory Nurses.
- Thompson, S. S. Test site reviewer and facilitator for testing new electronic medical record software for McGraw Hill publishers.

- i. BOOKS PUBLISHED/CHAPTERS/CONTRIBUTIONS**

- Duvall, J. J. (2010). Contributor to *NCLEX-RN 101: How to Pass* (7<sup>th</sup> ed.). Rayfield, S, & Manning, L. (Eds). Duluth, GA: ICAN Publishing.
- Geist, M. J. (2010). Contributor to *Nursing Made Insanely Easy* (6<sup>th</sup> ed.). Rayfield, S, & Manning, L. (Eds). Duluth, GA: ICAN Publishing.

**j. INNOVATION RESULTING IN SAVINGS, EFFICIENCY AND/OR IMPROVED OUTCOMES**

***Advisement***

- Faculty at Large & Kristi Burris, Academic Advisor (Staff). Student advisement program for all Lower-Division Nursing Majors, Upper-Division Nursing Students, RN-BSN students, and RODP MSN students declaring TTU as their home school. Approximately, 600 students are advised each semester. Faculty participation in advisement supplements the academic advisor staff position in the WH-SON. Without this advisement by faculty, the one academic advisor in the School would be insufficient, necessitating additional positions. Each faculty member advises 7-8 hours per semester in addition to individual advisement and serving as an NCLEX Advisor throughout the semester.
- Geist, M. & Hanna, K. NCLEX-RN Preparation Plan Review Team. Each student receives an individualized post-graduation NCLEX Enrichment Plan. Individual instruction is provided to assist students in progressing through the plan.
- Faculty at Large. NCLEX-RN Advisement Program. Students are assigned a faculty advisor to assist them in preparing for success on the NCLEX-RN.

***Course and Curriculum Initiatives***

- Duvall, J. J., & Hall, R. Development of two four-hour simulations to supplement hospital clinical experiences for students. Respiratory and cardiac simulations allow students to be challenged in a controlled environment and enhance critical thinking and application of theoretical knowledge. Students work in small teams, allowing them to process information together and with faculty.
- Faculty at Large. Camtasia recordings of classes to allow students to independently review content outside of class.
- Geist, M. Course content revisions: 1) development and implementation of two new Legacy Cycles (Anticoagulants and Fluid and Electrolyte Balance), 2) development and implementation of several “How People Learn” strategies to create “Learner, Knowledge, Assessment, and Community” centered lecture, 3) implementation of new tools for ongoing formative assessment during lecture, and 4) use of SAFETY temple for incorporating top nursing activities in lecture.
- Hanna, K. Established Senior Seminars, offering enrichment activities designed by faculty and external consultants. Implemented in NURS 4451, Leadership and Management in Nursing.

- Jared, B. Implementation of Remote Post-Clinical Conference for Students in Community Health: Clinical Placement in Rural Communities Via Drop.io and online Discussion Board.
- McQuiston, L. Developed “Senior Coaching Program” in which second semester seniors work with first semester junior students during their clinical experiences. Senior coaches assist with transition, assessment, and management of patients care and are supervised by faculty. The program benefits senior students by providing experiences with management, prioritization, and delegation. Junior students benefit from having a peer assist them with organization skills and questions relation to transitioning from lower-division courses to upper-division nursing courses.
- Reeves, S. Developed two medical-psychiatric simulations, providing additional clinical experiences for students in mental health courses. These simulations provide needed content as well as supplementing experiences in clinical facilities, which are increasingly difficult to obtain.
- Russell, B. H. Incorporation of Drop.io into pediatric clinical course. Provides an opportunity for asynchronous post-clinical conferences and student peer evaluation of shift reports.
- Thompson, S. S. Developed “2-minute drills” to teach prioritization and critical thinking in an interactive, active approach. Incorporated a “holistic” Fundamentals lab experience to include basic assessment, medical orders, medication administration, skill practice and documentation.

#### **k. FACULTY, STAFF AND STUDENT AWARDS**

##### **i. Faculty & Staff Awards/Honors/Other Accomplishments**

###### *Awards*

- Duvall, J. J., Recipient, 2011 Anne Floyd Koci Faculty Award for Excellence in Research.
- Geist, M. J., Recipient, 2010 Outstanding Faculty Award for the WH-SON (selected by students).
- Geist, M. J., Nominee, 2011 TTU Outstanding Faculty Award for Teaching.
- Howard, T., Recipient, 2011 Anne Floyd Koci Faculty Award for Excellence in Service.
- Howard, T., Nominee, 2011 TTU Outstanding Faculty Award for Service.
- Jared, B., Recipient, 2010 TTU Outstanding Alumnus Award.
- Russell, B., Recipient, 2011 Anne Floyd Koci Faculty Award for Excellence in Teaching.

###### *New Professional Certifications Attained During the 2010-2011 Academic Year\**

- Maffett, J. H. Family Nurse Practitioner – Board Certified (FNP-BC) (Renewal)
- Russell, B. H. Certified Nurse Educator (CNE) (One of forty certified in Tennessee)

\* Certifications in nursing require faculty to demonstrate expertise beyond basic education. Certification recognizes excellence in nursing practice and knowledge. See Appendix A for a listing of faculty in the WH-SON that includes the certifications that have been earned and are maintained by meeting the requirements of continued professional practice and testing designated by credentialing organizations. Faculty members engage in professional practice an average of one day per week. This practice and continued certification contributes to the quality of the programs offered by the WH-SON, enhances recruitment of students and faculty, and provides services to the community.

***Tennessee Technological University New Graduate Faculty Appointments\****

- Gaines, S. K., Full Membership, Appointed Fall 2010
- Hanna, K. J. Full Membership, Appointed Fall 2010 (previously an Associate Member)
- Jared, B. Associate Membership, Reappointed Fall 2010

\* See Appendix B for a list of faculty who hold current Graduate Faculty Appointments

**ii. Faculty/Student/Partners Awards/Honors/Other Accomplishments**

- Sixteen inductees, Fall 2010, Sigma Theta Tau International Nursing Honor Society, Iota Beta Chapter, twenty students (see Appendix C for a list of inductees).
- Twenty-seven inductees, Spring 2011, Sigma Theta Tau International Nursing Honor Society, Iota Beta Chapter (see Appendix C for a list of inductees).

**iii. Student Awards/Honors/Other Accomplishments**

- Chelsea Nye, Member, Board of Directors, National Student Nurses Association (Elected).
- Chelsea Nye, Middle Regional Director of the Tennessee Association of Student Nurses (TASN). (Elected)
- TTU Whitson-Hester School of Nursing Student Nurses Association Officers

- Chelsea Nye, President (Elected)
- Chris Delk, Vice President (Elected)
- Anna Martin, Elected, Secretary
- Heather Simonis, Elected, Treasurer
- Fall 2010 Whitson-Hester School of Nursing Senior Awards
  - Dustin Moss, Recipient, Highest Academic Achievement Award
  - Elizabeth Strader, Recipient, Dr. Patricia A. Sommer Student Nurse Award
  - Jessica Terrell, Recipient, Upper Cumberland District 9 Tennessee Nurses Association Award
  - Ashley Roberts, Recipient, Student Nurses Association-Tennessee Technological University Student Nurse of the Year Award.
- Spring 2011 Whitson-Hester School of Nursing Senior Awards
  - Kari Null, Recipient, Highest Academic Achievement Award
  - Katherine Cartwright, Recipient, Dr. Patricia A. Sommer Student Nurse Award
  - Christina Mahan, Recipient, Upper Cumberland District 9 Tennessee Nurses Association Award
  - Kristen Perrone, Recipient, Student Nurses Association-Tennessee Technological University Student Nurse of the Year Award.
  - Anna Martin, Recipient, Student Nurses Association Award
  - Angela Houston, RN, Recipient, Registered Nurse Professional Practice Award
- Graduation with Honors – Fall 2010 (see Appendix D for graduation list).
  - Three students graduated magna cum laude (3.7-3.89 GPA): Dustin Moss, Elizabeth Strader, and Ashley Williams.
  - Seven students graduated cum laude (3.5 – 3.65 GPA): Tracie Adams, Jordan Alonge, Natashia Bronner, Kristen Miller, Samantha Harden, Nancy Keaton, and Sarah Oakes.
- Graduation with Honors – Spring 2011 (see Appendix D for graduation list).
  - Four students graduated magna cum laude (3.7-3.89 GPA): Hannah Drake, Leighann Hashe, Kari Null, Tony Poppel
  - Twelve students graduated cum laude (3.5 – 3.65 GPA): Taren Brown, Gracie Burke, Kelly Comer, Sara Erger, Rachel Huddleston, Leah Mullican, Lauren Lampley, Anna Martin, Leah McDonald, Lauren O’Malley, Kristen Perrone, and Erica Williams.
- **Scholarship Awards, Spring 2011 (see Appendix E for list of awards)**

## I. COMMUNITY SERVICE ACTIVITIES

### *External to the University*

- Duvall, J. J. Faculty, Advanced Cardiac Life Support Course, Cookeville Regional Medical Center.
- Duvall, J. J. Ambassador, American Association of Critical Care Nurses Ambassador.
- Duvall, J. J. Ambassador, National League for Nursing Ambassador.
- Geist, M. Workshops on a variety of health topics, Senior Citizens Center, Baxter, TN.
- Green, S. Member, Paramedic Advisory Board and Paramedic Program Admission Board.
- Green, S. Provides mental health services for uninsured through Appalachian Resources, coordinated by Allardt Presbyterian Church.
- Hall, R. Student Organizer, Susan G. Komen Foundation “Race for the Cure.”
- Hall, R. Working with the American Lung Association, offering eight-week classes on smoking cessation to teenagers who are found with tobacco paraphernalia at their schools.
- Hanna, K. Volunteer, Distribution of School Supplies to Needy Children, Care Center, SSBC.
- Hanna, K. Music Ministry within local community, performing and writing songs.
- Howard, T. Member, Putnam County Walk Committee, March of Dimes
- Howard, T. Volunteer, Medical Reserve Corp.
- Howard, T. Member, Fundraising Committee, Upper Cumberland Moms of Multiples.
- Jared, B. Member (14 years), Chair (12 years), White County Board of Education.
- Jared, B. Counselor/Leader, July 2010 Youth Ministry trip to Atlanta, GA.
- Maffett, J. H. Board Member, TTU’s International Community Hospitality Association.
- Russell, B.H. Faculty, Critical Care Course, Hematology, Cookeville Regional Medical Center (Spring and Winter terms).
- Russell, B.H. Member, Parent Advisory Board, Cookeville Regional Medical Center Children’s Center.
- Russell, B.H. Mentor, TTU Alumni Mentoring Program, service to and recruitment of high school students.
- Russell, B. H. Mentor and various volunteer activities (e.g., Ronald McDonald House), Upper Cumberland Alumnae Association – Alpha Delta Pi



- Thompson, S. S. Team Coordinator for Iota Beta Chapter of Sigma Theta Tau, Upper Cumberland breast cancer walk-a-thon.
- Thompson, S. S. Presenter. *Military Nursing in Iraq*. Meeting of the Daughters of the American Revolution, Old Walton Road Chapter, Cookeville, TN.
- Thompson, S. S. Member and Volunteer Fundraiser, Lake Tansi Chapter of Exchange Club for Prevention of Child Abuse.

**TENNESSEE TECH UNIVERSITY  
Oakley Sustainable Agricultural Center  
ANNUAL REPORT 2010-2011**

**\$30,000** grant to support Bolivia Literacy Program thru Rotary International

P.E.T. Care Campus Planning Committee and University point-person, \$3 million budget

Planned “Listening Sessions for Gubernatorial Candidates”

Then- Mayor, now Gov. Bill Haslam

U.S. Rep Zach Wamp

Lt. Governor Ron Ramsey

Planned “Listening Sessions for U.S. Representative Diane Black

Hosted U.S. Representative Diane Black at her first session after her election to discuss “rural healthcare” including representatives from Whitson-Hester School of Nursing, Cookeville Regional Medical Center, Cookeville Chamber of Commerce, and TN Health Department

Serve U.S. Congressman Diane Black as advisor on agricultural issues

**Publications:**

**Books Published:**

Frequently Asked Questions of Beef and Forage Producers, 2<sup>nd</sup> Ed., C.P. Bagley & R.R. Evans

**Refereed Publications**

**Housewright, B.C., R. Skipper, D. Crenshaw, and C.P. Bagley. 2011. Effects of serum levels of copper and zinc on antibody titers of two breeds of stocker calves injected with *Leptospirosis sp.* vaccine and drenched with an organic mineral supplement. TX J Agric and Nat Resour. 23:90-96.**

**Other Publications**

Murillo, J. D., P. Ambulen, T. Hughes, J.J. Biernacki, and C.P. Bagley. 2010. Comparative pyrolysis for one legume and two grass hays. TN Acad. Sci. Oct. 2010

C.P. Bagley, A. Martell-Cheatham and J.H. Bouton. 2011. Quality characteristics of switchgrass as influenced by forage treatments. Proc. Amer. Forage & Grassl. Council. (in print)

**Grants and Contracts:**

Cooperator, grant funded entitled “A Multi-Scale Environmental-Kinetic Study on the Pyrolysis of Sustainable Biomass Feedstock,” **\$5,000** internal grant from Research Office

P.I. on **\$1,800,000** project with TDEC, NRCS, and TnDOT to provide stream bank stabilization, develop wildlife habitats and food plots, and create innovative watering systems for livestock (funded)

P.I. on an **\$85,000** grant with Perdue Farms related to “cake” feeding to livestock at Oakley Farm- in disucssion

P.I. on a grant of **\$150,000** for developing embryo transfer technology and pasture modifications at Oakley Farms (funded)

P.I. with Jim Ligon and Katie Lenhert on **\$35,000** project with Cooperative Research Foundation (CRF) on Selenium supplements for cattle (funded)