

a partial professional experience survey of:

Philip M. Fravel

Education

Ph.D., Career and Technical Education, February 2004
Virginia Polytechnic Institute and State University
Blacksburg, Virginia 24061

M.S., Vocational and Technical Education, December 1997
Virginia Polytechnic Institute and State University
Blacksburg, Virginia 24061

B.S., Agricultural Education, December 1981
Virginia Polytechnic Institute and State University
Blacksburg, Virginia 24061

Employment

Clemson University

Clemson, South Carolina 29634-0312
Department of Agricultural and Biological Engineering
Agricultural Education Program
July 2008 to Present (tenure track position)
100% Teaching appointment- Assistant Professor, Teacher Education Program

Clemson University

Clemson, South Carolina 29634-0312
Department of Agricultural and Biological Engineering
Agricultural Education Program
February 2006 to June 2008 (tenure track position)
75% Teaching appointment- Assistant Professor, Teacher Education Program
25% Research appointment

Clemson University

Clemson, South Carolina 29634-0312
Department of Agricultural and Biological Engineering
Agricultural Education Program
July 01, 2001 to February 2006
50% Faculty Lecturer- Teacher Education Program
50% Associate State Director- Secondary Agricultural Education Programs

Frederick County Public Schools

Winchester, Virginia 22601
August 01, 2000 to July 31, 2001
Instructor of Agricultural Education, Sherando High School, Stephens City, VA
Agricultural Education Secondary Instructor and FFA Advisor
Agricultural Fundamentals, Welding, Advanced Welding and Small Engines

Employment- continued

Virginia Polytechnic Institute

College of Agriculture and Life Sciences

Academic Programs

Blacksburg, Virginia 24061

July 1, 1998 to 31 July 2000

Graduate Research and Teaching Assistant

*Classroom & Laboratory Instructor for the Agricultural Technology Program
and College of Agriculture & Life Sciences Alumni Assistant Coordinator*

Virginia Polytechnic Institute

Agricultural Education Program

Blacksburg, Virginia 24061

July 1, 1996 to June 30, 1998

Graduate Research Assistant

*Revised the Virginia state-wide agricultural mechanics curriculum. Created and produced
related practical instructional materials for agriculture teachers of Virginia.*

Shenandoah County Public Schools

Woodstock, Virginia 22644

Continuous service from July 1, 1982 to June 30, 1996

Instructor of Agricultural Education, Strasburg High School

Agricultural Education secondary and adult education instructor

Advisor to the FFA and Young Farmer organization

168+ days of sick leave accumulated (zero days taken in 14 years)

Frederick County Public Schools

Winchester, Virginia 22604

January 1, 1982 to June 20, 1982

Interim Teacher, full time

Instructor of Agricultural Education, FCMS and REAMS

Teacher of 7th grade science and mathematics

Professional Educational Endorsements:

Post-Graduate Professional License

Endorsements: Secondary School Supervisor

Agricultural Education

Master Trainer, National Safe Tractor & Machinery Operation Program

Activities Associated with Employment at Clemson University:

My current appointment places me in a tenure track position in the Agricultural & Biological Engineering Department, Agricultural Education program. On July 01, 2008, my appointment was transferred from a 75% teaching assignment and a 25% research appointment to a 100% teaching appointment. I teach eight classes, most with instructional laboratories for our pre-service teacher education program. This involves teaching formal classes, supervising student teachers, providing in-service instruction to practicing teachers and trouble-shooting problems and concerns as requested by teachers. I serve on graduate student committees and direct the work of graduate research and project work. I serve as the advisor for the Alpha Gamma Rho agriculture fraternity, Collegiate FFA, and Alpha Tau Alpha honor society. Numerous other duties are completed as required. I also plan and conduct the annual three and one-half day state conference for SC Agricultural Educators and an annual new and beginning teacher institute.

I serve the state-wide program as a consultant for career & technical education facilities, as well as laboratory safety and equipment issues. I have consulted with numerous school divisions and individual teachers concerning new construction and renovation projects. The South Carolina State Department of Education requested that I design educational facilities for their use. These plans were delivered and are currently available to school divisions state-wide for planning purposes.

My duties at Clemson University for the first five years of my employment were divided between the teaching faculty and state staff responsibilities for Agricultural Education. 50% of my assignment involved teaching and advising in the pre and post service aspects of the Agricultural Education and agricultural mechanization & business programs. I served as the Associate Director for Agricultural Education for the remaining 50% of my appointment. My primary duties were to visit and assist teachers in the Piedmont and Mid-state regions, which spanned one-half of the state. The duties included formal and informal evaluations, curriculum assistance, coordination of student youth work through the FFA, facility improvement and building plan consultation and other duties as required or requested by teachers. Adult program supervision and teacher in-service were integral components of this appointment. Five-year program evaluations based on state standards was an annual portion of my duties.

Department Service and Committee Memberships

Agricultural Education Undergraduate Curriculum Committee
Agricultural Education Graduate Curriculum Committee
Agricultural Mechanization & Business Curriculum Committee
ABE Department Safety & Regulatory Compliance Chairman
ABE Department Research Mechanics Laboratory Supervisor
ABE Department Teaching Laboratory Supervisor
McAdams Hall Laboratory Renovation Chairman
CAFLS Dean's Search Committee-2003
McAdams Hall Space Committee
South Carolina FFA Advisory Committee
SCAAE Teachers' Association Advisory Committee
SC Secondary Agricultural Education Program Review Committee
NCATE Review Compliance Committee
McAdams Hall Building Security Co-Coordinator

Clemson University Graduate Student Committees

John S. Asbil, in progress, Chair
Timothy Keown, in progress, Chair
Thomas Willingham, in progress, Chair
J. Brandon Stiglbauer, in progress
M. Blake Berry- 2007, Chaired
Anna Jenkins- 2007, Chaired
Stewart Lee, 2007
Nichole Massey- 2006, Chaired
Alana Willingham, 2006
Ernest Schoonover- 2005
Barbara Kristen Clinton, 2004
Richard Varnadoe, 2003
Erin R. Strickland, 2003, Chaired
Gordon Mikell- 2003
Christopher Corzine, 2002
Jenny Collins-Smith- 2002
Darren Atkins- 2002
Calvert Sherard- 2002
Halicine VanBrink- 2002
George Beasley, 2002

Research, Published Articles, Presentations and Materials:

- "School Demonstration Gardens: A Historical Concept with Renewed Applications as a Teaching Tool with SAE Opportunities"*, P. M. Fravel, M. Blake Berry. Presented, NAAE Conference, Las Vegas, NV, December 2007. Peer rated excellent.
- "Obstacles Confronting Career/Program Success and Satisfaction of Beginning and Mid-Range Agricultural Educators"*, P. M. Fravel, K. R. M. Walker. Presented ABE Department Research Colloquium, November 2007.
- "Southern Region Agricultural Educators' Conference"*, Mobile, AL, Co-Chaired with Thomas Dobbins. February 2007.
- "ABE Department Student Research Colloquium"*, Co-Chaired the first student research colloquium hosted by ABE, Fall 2006.
- "National Safe Tractor & Machinery Operation Program"*, a comprehensive agricultural Safety program and curriculum material set for use by Agricultural Educators. Summer Teachers' Conference, July 2005.
- "Principles of Applied Electrical Concepts"*, P. M. Fravel- 2005 Summer Teachers' Conference. Clemson University. July 2005.
- "Noxious Weed Seed Identification Set"*, a 40 vial set of noxious native weed seeds for use By practicing agricultural education teachers. Summer Teachers' Conference, July 2004.
- "A History of Agricultural Education in South Carolina with an Emphasis on the Public School Program"*. Ph.D. Dissertation, February 2004.
- "Small Engine Maintenance for High School Programs"*, New and Beginning Teacher Institute, Clemson University, April 2004.

Research, Published Articles, Presentations and Materials: continued

- “Agronomy Curriculum Materials”*- a complete curriculum developed and distributed via a Teacher workshop. Included printed materials, a CD, and various seed sets. Myrtle Beach, January, 2004.
- “Cultivated Crop Seed Identification Set”*, a 40 vial set of cultivated crop seeds for use by classroom agricultural education teachers. 2004.
- “Weed Seed Identification Set”*, a 40 vial set of North American weed seeds for use by classroom agricultural education teachers. Fravel, P. M., Norsworthy, J., 2004.
- “SC State FFA Officer Agricultural Industry 5-Day Tour”*, Co-Chaired with J. W. Parris, July 2003.
- “SC FFA Statewide COLT Conference”*, over 300 FFA members in attendance for the two-day event. Co-Chaired with J.W. Parris, 2003.
- “Factors that Influence African-American Students Not to Enroll in Secondary Agriculture Courses and Not to Pursue Agricultural Related Careers as a Profession”*, Dobbins, T., King, D., Fravel, P., Keels, W., Covington, C., Spring 2002. Presented in Las Vegas, December 2002.
- “Personal Safety on the Home and Farm”*, The South Carolina Young Farmer and Agribusiness Association State Convention, January 2002.
- “Your Potential Involvement in the FFA”*, SC District III FFA Greenhand Conference, N. Myrtle Beach, SC, 2002. Over 100 high school students in attendance.
- “Agricultural Education & the FFA in SC”*, Fravel, P. M. and Stover, F. R. Sr., Agri Biz Magazine, January-June 2002.
- “Agricultural Mechanics Lesson Plans,”* compact disk formatted lesson plans prepared for Clemson University student teachers, January 2000, Revised and distributed 2002-08.
- “An Assessment of Computer Skill Levels Among User Groups on Campus”*, Dobbins, T., Fravel, P., Wood, P., Werth, P., LaBone, E., and J. Hirt, College and University Media Review, Spring 1999.
- “A True Student Exchange Program Between Virginia Tech and University of Orange Free State in South Africa”*, Fravel, P. M., Crunkilton, J. R., and White, J. M. AIAEE Conference, Trinidad, March 1999.

Unfunded Research In Progress

- “Collegiate Agricultural Education Students’ Anxiety Perceptions of Mathematics”*- a longitudinal study started in 2006 and collected annually each fall.
- “Program Satisfaction of Clemson University Agricultural Education Seniors While Student Teaching”*- a longitudinal study started in 2006 conducted annually by focus group process.
- “The Barriers Associated With Job Satisfaction of SC Agriculture Teachers with Five or Less years of Experience”*, A Delphi Study. Spring 2007, 2008.

Research Proposals, Grants and Consulting

- Co-investigator on a funded NSF grant (\$878,750) project to infuse biotechnology into the secondary agriculture programs and construct a 2+2+2 pathway through the high schools, technical colleges and Clemson University.
- Investigated and received two tractors from John Deere for mechanics instruction totaling a value of over \$35,000.
- Investigated and received teaching materials and supplies from the Lincoln Electric Company in excess of \$20,000 over two years.
- Investigated and received grants from Briggs & Stratton for the donation of small engines and related equipment used in the teaching laboratory and for state teachers. Total value in excess of \$91,000 over the past six years.
- Co-Investigator, SC Department of Education Professional Development Grant, Funded, 10% Credit. 2006, 2007, 2008. \$56,190.00 annually.
- P.I., National FFA, RFP- Evaluation of Life Knowledge Materials, \$25,000, unfunded, 2007.
- Southern Coastal AgroMedicine Center Agricultural Safety Curriculum Package, Co-PI, \$14,987, Unfunded, 2002-03.
- Consult with high schools within and outside the state concerning teaching facilities
- Assist programs within and outside the state concerning FFA activities and CDEs.
- Assisted West Virginia University student Annie Hall with her Master's thesis regarding a regional Agricultural Education study, 2007.
- Assisted and consulted with beginning teachers regarding program and instructional concerns.
- Assisted Clemson University Student John Duke with his Ed.D. dissertation regarding agriculture curriculum. 2007-08.
- Annual consultant for the SC Department of Education regarding Agricultural Education teaching and laboratory facilities.

Workshops Conducted:

South Carolina:

Annual Summer Conference for SC Agricultural Educators- 2004, 2005, 2006, 2007, 2008.

I have planned, coordinated and chaired the three and one-half day summer conferences for the annual in-service program for secondary teachers of agriculture.

Annual New & Beginning Teachers Institute- I chair and organize the Clemson Ag Education annual institute for new and beginning agriculture teachers. We have an outstanding national record of retaining teachers in their chosen profession and these workshops have been highly rated. 2001, 2002, 2004, 2007, 2008.

Cooperative Awareness Seminar, I hosted and coordinated the SC Cooperative Council's day-long workshop presentation to Agricultural Education undergraduate students. 2005, 2006, 2007.

Principles of Applied Electrical Concepts- 2005 Summer Teachers' Conference. Clemson University. July 2005. Teachers received classroom instruction on residential and commercial electrification. Participants received an electrical demonstration module and necessary tool kit that I designed. Hands-on instruction and application were incorporated.

National Safe Tractor & Machinery Operation Program, a comprehensive agricultural Safety program and curriculum material set for use by Agricultural Educators. Summer Teachers' Conference, July 2005.

Incorporating Agronomy into Your Classroom Program and for CDE Preparation, Winter Teachers' Conference. Myrtle Beach, SC, January 2004. Teachers were provided with a package that I produced which included a seed identification set (40 specimens), a CD for weed identification, instructional masters, and other instructional materials.

Individual Personal Safety for the Home and Farm- 2002 State Young Farmer & Agribusiness Convention- Charleston, SC, January 2002.

Training Your Team for FFA Ag. Mechanics CDE Competition- South Carolina Agriculture Teachers' Conference- Columbia, SC, May 2000.

FFA Agricultural Mechanics CDE, Planned, organized and conducted annually the three regional and the State events for South Carolina FFA- May-June, 2000- 2007.

National Agricultural Mechanics CDE- what to expect and how to prepare for national Competition, South Carolina Agricultural Teachers Conference, July 1999.

National Involvement:

Post-Secondary Agricultural Student Organization- National Board Member- 2003- 07
Clemson University- Curriculum Revision Committee, Agricultural Education Program- 2002-present

Clemson University- Curriculum Revision Committee, Agricultural Mechanization & Business Program- 2002-2005

Clemson University- Curriculum Revision Committee, Biological Instruction and Agricultural Education Program- 2000, 2001

Association for Career and Technical Education Convention- 1997, 1998, 1999, 2004

American Association of Agricultural Educators- 2001-to the present

-session evaluator, 2006, 07, 08

National Agricultural Education Research Meeting- 1997, 1998, 1999, 2002

National Association of Agricultural Educators Convention- 1997, 1998, 1999, 2002
 -Voting Delegate- 1998 NAAE Convention
 National Omicron Tau Theta Honor Society
 -National Historian, 2005-present
 Southern Association of Agricultural Scientist Conference- 1999, 2000, 2005-09
 -Session Facilitator- January 2000
 -Research Session Evaluator- 2005, 2007, 2008
 -Graduate Student Professional Breakfast program Chair- 2007
 -Conference Co-Chair- 2007
 National Association State Supervisors of Agriculture- 2001-2006
 -Resolutions Committee- 2004
 American Association Vocational Instructional Materials- Previous Board Member
 American Association Vocational Instructional Materials- Materials Evaluator
 National FFA Agricultural Mechanics Career Development Event Judge- 96-99, 01-08
 National Competition, Agricultural Mechanics Team Advisor- 1992 and 1994
 National Agricultural Career Show- Virginia Tech Coordinator- 1997
 -Clemson University Coordinator- 2006-08
 National FFA Recruitment Materials Project- secondary school host chapter
 National FFA Building Our American Communities Conference

Memberships / Recognition / Honors:

Nominated and a finalist for the Outstanding Teaching Award- Clemson University
 College of Agriculture, Forestry & Life Sciences, 2007, 2008.
 Historic Pendleton Farmers Society- 2004, nominated and elected to membership
 President's Award for Faculty Excellence- 2003, 2007 Clemson University
 Outstanding Young Alumnus- Virginia Polytechnic Institute, College
 of Agriculture and Life Sciences, 2001-2002.
 Belton-Honea Path High School Honorary Chapter Farmer Award- 2002
 Clemson Collegiate Honorary FFA Tiger Farmer Degree Award- 2002
 South Carolina Association of FFA- Honorary State Degree, 2006
 Virginia Association of FFA- Honorary State Degree, 1991
 Gamma Sigma Delta National Agriculture Honor Society
 Phi Delta Kappa Professional Education Fraternity
 Kappa Delta Pi International Education Honor Society
 -Secretary/Treasurer 1998-99, Interim President- 1999
 Omicron Tau Theta Professional Honorary Society
 -National Historian, 2006-present
 Alpha Tau Alpha Honor Fraternity member and Advisor
 Alpha Gamma Rho National Agricultural Fraternity
 -Adviser, Beta Zeta Chapter, Clemson University
 T. J. Wakeman Graduate Scholarship- 1996 and 1997
 South Carolina Association of Career & Technical Educators
 National Association of Agricultural Educators (old NVATA)
 Virginia Association Agricultural Educators (old VVATA)
 Association for Career and Technical Education (old AVA)
 Teacher of the Year, Strasburg Chamber of Commerce, 1994
 National FFA Superior Chapter Award- seven years

Area FFA Proficiency Award Winners- numerous
State Winning and National Finalist- FFA Proficiency Awards- several
Area and State Star Farmers and Star Agribusinessmen finalist and winners- several
State FFA Degree Recipients- numerous
American FFA Degree Recipients- five (others I have taught and advised)
Virginia State FFA Officers- three (others I have taught and advised)
State Winning FFA Senior Agricultural Mechanics Team- 1992 and 1994
State Winning FFA Junior Agricultural Mechanics Team- 2001

Previous Activities Associated with Employment at Virginia Tech:

- 1999-00 I served as an instructor within the Agricultural Technology program and other duties within the college as assigned. I conducted the activities of the College of Agriculture Career Placement Office until that vacancy was filled. A portion of my time was devoted to assisting with the international exchange programs to South Africa and Trinidad Tobago. I reviewed and revised the articulation manual for high school- Ag. Technology articulated programs. I annually plan and help conduct activities associated with the Virginia FFA convention and the annual Virginia Agricultural Education teachers' conference.
- 1998-99 Instructed one class each semester in the Agricultural Technology program. On January 1, 1999, in addition to my teaching duties, I assumed the position and responsibilities of the coordinator for the Virginia Tech Agricultural Alumni Organization and its numerous activities. I also assisted with an International Exchange program involving 11 students from the University of Orange Free State of South Africa. I conducted several workshops and in-services for practicing and student teachers, including hosting Clemson University students for workshops two years.
- 1997-98 Constructed a series of twelve comprehensive instructional units and related individual lesson plans in the agricultural mechanics area to compliment the curriculum revisions made the previous year. The content of these materials were designed for both the novice and advanced instructor of mechanical applications. I produced the materials onto compact disk for distribution to Virginia's Agricultural Education teachers, a first for Virginia Agricultural Education.
- 1996-97 Conducted a total review, revision and reorganization of Virginia's statewide Agricultural Education curriculum for the three-year agricultural machinery option. This process involved the organizing and directing a review panel representing teacher educators, practicing teachers and business/industry representatives. Related D.O.E. Standards of Learning (SOLs) were identified and matched with program competencies.

Workshops Conducted at Virginia Tech:

Junior Agricultural Mechanics CDE- June 2008

Introduction to Small Engines- 1997, 1998 and 1999 pre-student teachers' workshop

Basic Electricity- theory & practice – 1998 and 1999 pre-student teachers' workshop

Training Teams for FFA Agricultural Mechanics Contest Competition-

Fall 1998 Northern Area Agriculture Teachers' meeting

Revised the Virginia Agricultural Mechanics contest to parallel the national contest- 1997

Coordinated the Virginia Junior and Senior Agricultural Mechanics contests- 1996-2000

Coordinated the Virginia Junior Agricultural Mechanics CDE- 2008

Your Future in Agricultural Careers- Fall 1998 Augusta Federation FFA Conference

Surveying and Leveling Instruments- 1996 Virginia Agriculture Teachers Conference

Local Involvement as a Secondary Agriculture Instructor:

State Involvement

Virginia Tech Agricultural Alumni Organization- University Coordinator- 1999

State Council on Higher Education Forum- Roanoke, Fall 1998

Cooperating Teacher for Virginia Tech (student teacher host) 1996

Virginia Student SAE Record Book Revision Committee

Virginia Agricultural Business Curriculum Standing Committee

Virginia FFA State Agricultural Mechanics Contest- Chairman, 1986- 2001

Virginia Vocational Education Check Excellence Program Recognition

Massanutten FFA Federation Advisor, two years

Shenandoah County, Virginia

Superintendent's Advisory Committee

Block Schedule Steering Committee

Student Evaluation Committee

Middle School Agricultural Program Planning Committee

Challenge 2000 Task Force

Tech-Prep Committee

Curriculum Instructional Team

School Year Calendar Committee

Chaired Three Middle School Ag. Education facilities Construction Committee

Strasburg High School

Principal's Advisory Committee

Strasburg High School Academic Committee

School Facilities Committee

10 year School Evaluation (SACS), Chair of the School Plant & Facilities Committee

Vocational Department Chairman

National Honor Society Review Board

Educational In-Services as a Secondary Instructor:

Hazardous Materials and Laboratory Safety

Making Students Life Long Learners

Human Rights Training

Assessment Training

Other Numerous Workshops and Conferences