

CURRICULUM VITAE

TRINA J. DAVIS

Assistant Professor and Director of eEducation
Department of Teaching, Learning, and Culture

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PROFESSIONAL INTERESTS

Statewide School Technology and Readiness (STaR) Studies
eLearning Models for Preparing Teachers and Diverse Learners
Technology Applications in K-20 Education
Digital Equity Issues

EDUCATION

Ph.D. Educational Curriculum and Instruction, Emphasis: Educational
Technology. Texas A&M University, May 2005. Dissertation title: *Relationship
of Technology Level of Progress to School District Demographic Variables.*

M.S. Mathematics, Research Area: Nonparametric Statistics, 1999, Prairie View
A&M University, Prairie View, TX.

B.S., Mathematics, Emphasis: Applied Mathematics, 1990, Virginia
Commonwealth University, Richmond, VA.

Certificates

Lifetime certificate in Secondary Mathematics (Grades 6-12), Endorsement in
Gifted and Talented Education.

PROFESSIONAL EXPERIENCE

Assistant Professor, Texas A&M University, College of Education and Human
Development, Department of Teaching, Learning and Culture, 2006-
Present.

Director, eEducation, Texas A&M University, College of Education and Human
Development, Department of Teaching, Learning and Culture, 2000-
Present.

Lecturer, Texas A&M University, College of Education and Human Development, Department of Teaching, Learning and Culture, 2005-2006.

Program Director, Middle School Aerospace Scholars Program Web Development and Online Delivery. Contract with NASA Johnson Space Center. Texas A&M University, 2001- Present.

Director, Partnership for Environmental Education and Rural Health (PEER), Texas A&M University, College of Education and CERH, 1999-2002.

Director, Ocean Drilling Distance Learning Program, Texas A&M University, Colleges of Education and Geosciences, 1999-2001.

Program Coordinator, South Central Regional Technology in Education Consortium (SCR*TEC-TX), Texas A&M University, College of Education, Office of the Dean, 1997-2000.

Technology Coordinator, Waller Independent School District, 1993-1997.

Distance Learning Facilitator, Cultural Connections Project, Waller Independent School District, 1993-1997.

Gifted and Talented Teacher, Jones Intermediate School, Waller Independent School District, 1996-1997.

Mathematics Teacher and Gifted and Talented Teacher, Waller Independent School District, 1992-1996.

Mathematics Instructor, Houston Community College, Northwest Campus, 1992-1995.

Graduate courses developed and taught at Texas A&M University:

EDCI 644 Curriculum Development: Web-based course taught via Bb Vista (Spring 2007). http://www.coe.tamu.edu/~tdavis/edci644_spring07/

EDCI 602 Cultural Foundations in Education: This course has substantial online support materials and resources (Spring 2007).

EDCI 689 Online Materials Development: Web-based course taught via Bb Vista (Fall 2006).

EDCI 619 Teaching and Learning Number and Quantity Concepts: This course has substantial online support materials and resources (Fall 2005). <http://www.coe.tamu.edu/~tdavis/edci619/>

PUBLICATIONS – PROCEEDINGS AND ARTICLES

- Denton, J.J., Davis, T.J., Smith, B.L., Beason, L., Graham, B.D., & Strader, R.A. (2006). Success Ratios for Accelerate Online/OPTIONS An Online Alternative Certification Program. Paper available at <http://eeducation.tamu.edu/> under Reports and Publications.
- Denton, J.J., Davis, T.J., Capraro, R.M., Smith, B.L., Beason, L., Graham, B.D., & Strader, R.A. (2006). Examination of Applicant Profiles for Admission into and Completion of an Online Secondary Teacher Certification Program. Paper available at <http://eeducation.tamu.edu/> under Reports and Publications.
- Roberts, K., Denton, J., Davis, T., Smith, B., Beason, L., & Graham, D. (2006). Comparison of Factor Structure and Conceptual Structure of Intern Classroom Assessment Instrument. Paper available at <http://eeducation.tamu.edu/> under Reports and Publications.
- Denton, J., Davis, T., Smith, B., Strader, A., Clark, F., & Wang, L. (2006). Technology mentor fellowship program: A technology integration professional development model for classroom teachers. *National Forum of Teacher Education Journal* 17E:3. Available online at: www.nationalforum.com
- Denton, J., Davis, T., Smith, B., & Strader, A. (2005) The technology mentor fellowship program (TMFP) model for professional development and sustainability of technology infusion initiatives. *Texas Journal of Distance Learning* [Online serial] 2:2, 69-85. Available online at <http://www.tjdl.org/articles/v2i2/mentor/>
- Denton, J., Davis, T., Smith, B., Beason, L., & Strader, R. (2005). An online professional development model for pre-service teacher education. *Proceedings of E-Learn 2005 World Conference on E-Learning in Corporate, Government, Healthcare, & Higher Education. October 24 – 28, 2005* (pp. 617-624). Chesapeake, VA: Association for the Advancement of Computing in Education.
- Denton, J. J., Davis, T. J., Smith, B. L., Strader, R. A., Clark, F. E., & Wang, L. (2004-05). Net generation undergraduates as technology mentors for teacher educators. *National Forum of Teacher Education Journal* 17E:3. Available at: www.nationalforum.com
- Denton, J., Davis, T., Smith, B., Strader, A., Clark, F., & Wang, L. (2005). Net generation college students as technology mentors for teacher educators. *Proceedings of the Society for Information Technology and Teacher Education. 2005, 16th International Conference.* 3150-3154.
- Denton, J., Davis, T., Strader, A., Durbin, B., & Wang, L. (2004). Has state and federal support changed technology infrastructure and professional development in Texas public schools. *Proceedings of ED-MEDIA 2004*, 5242-5249.

- Denton, J., Davis, T., Strader, A., & Durbin, B. (Winter 2003). 2002 Texas Public School Technology Survey. INSIGHT . 17:3, 13-28.
- Denton, J., Davis, T. & Strader, A. (2001). 2000 Public School Technology Survey. INSIGHT , Summer, 2001. 15:2, 13-23.
- Cifuentes, L., Davis, T., Jolly, D., Klingelhoffer, P., Metcalf, T. (1999). *The model classroom: Helping educators envision the future*. Proceedings of the 6th Annual Distance Education Conference (pp. 43-44). College Station: Texas A&M University, Center for Distance Learning Research. San Antonio, TX.
- Denton, J., Davis, T., Strader, A., Jessup, G., & Jolly, D. (1999). The changing technology infrastructure in Texas public schools. INSIGHT , Summer, 1999, 13:2, 34-38.
- Jolly, D.V., Davis, T., Strader, R.A., Denton, J. (1999). Issues related to technology in teacher education programs and K-12 public schools in Texas. Educational Technology & Society, July, 1999, 2:3, ISSN 1436-452.
- Jolly, D.V., Davis, T., Strader, R.A., Denton, J. (1999). Issues related to technology in teacher education programs and K-12 public schools in Texas. Accepted for publication in the International Forum of Educational Technology & Society.
- Jolly, D., & Davis, T. (1998). A Look at current practice and needs in teacher preparation. Proceedings of the Telecommunications and Multimedia in Education Conference.
- Cifuentes, L., Murphy, K. L., & Davis, T. (1998). Promoting self-esteem, achievement, and multicultural understanding through distance learning. Proceedings of the Association of Educational Communications and Technology Conference.
- Cifuentes, L., Murphy, K. L., & Davis, T. (1998). Cultural connections: Crossing international borders. Proceedings for Global Learning in the 21st Century, Copenhagen, Denmark.
- Cifuentes, L., Metcalf, T., Davis, T. & Gonzales, E. (1997). Cultural Connections: A multimedia distance learning project. Proceedings of the Annual Distance Education Conferences, (pp. 33-35). Corpus Christi, TX.
- Cifuentes, L., Murphy, K. L., & Davis, T., Gonzales, E., & Edmundson, C. (1997). Cultural Connections: A model for K-12 videoconferencing. Proceedings of the Conference on Distance Teaching and Learning, (pp. 33-35). Madison, WI.
- Cifuentes, L., Metcalf, T., Webb-Johnson, G., Murphy, K., & Davis, T. (1996, June). "Walk the footsteps of a stranger: Learning things you never knew

you never knew.” Paper presented at ED-MEDIA/ED-TELECOM '96: World Conference on Educational Multimedia and Hypermedia (pp. 68-73).

PUBLICATIONS - ERIC DOCUMENTS

Denton, J., Davis, T. & Strader, A. (2001). Report of the 2000 Texas Public School Technology Survey Prepared for the Telecommunications Infrastructure Fund Board and Texas Public Schools. College Station, TX: Texas A&M University, 1998 (ERIC Reproduction Number ED-454-811).

Denton, J., Davis, T., Strader, A., & Jessup, G. (1999). Final Report of the 1998 Texas Public School Technology Survey. College Station, TX: Texas A&M University, 1998 (ERIC Reproduction Number ED-429-751).

Dissertation

Davis, T. (2005). *Relationship of technology level of progress to school district demographic variables*. Unpublished doctoral dissertation. Texas A&M University.

NON-PRINT MEDIA (Significant Educational Design Product)

Software Tool for eLearning Environment

Davis, T.J. (Director and Co-Developer). *eEmpowerment Zone and Integrated ePortfolio System*: comprehensive, web-based elearning, assessment and professional development system designed for diverse communities of learners. Used as the primary delivery system for the Accelerate Online teacher certification program at Texas A&M University (2500 users to date, including 110 Accelerate Online students) <http://empowermentzone.tamu.edu>
<http://empowermentzone.tamu.edu/portfolios/center>

HONORS AND AWARDS

Making it Happen Award. Awarded at the National Education Computing Conference, July 2006.

Academy for Advanced Telecommunications and Learning Technologies, Senator Jack Fields' Scholarship Recipient, 1999-2000.

United States Department of Education, Bilingual and Multicultural Education Doctoral Fellow, Texas A&M University, 1998-2001.

Waller Independent School District, Teacher of the Year, 1996-1997.

Waller Independent School District Educational Foundation Grant Recipient,
1995-1996.

RECENTLY FUNDED PROJECTS

Davis, T.J. (Investigator), Denton, J.J. (Principal Investigator) An On-Line Alternative Certification Program at Texas A&M University. Transition To Teaching Program Local. U.S. Department of Education. November 1, 2003 – October 31, 2007 (\$1,870,260).

Davis, T.J. (Director and Co-Principal Investigator), Denton, J.J. (Principal Investigator) Contract with NASA Johnson Space Center, “Middle School Aerospace Scholars.” January 1, 2002 – October 31, 2005 (\$269,304).

Davis, T.J. (Investigator), Denton, J.J. (Principal Investigator) Subcontract on contract from Baylor University for Houston Endowment grant, Opening Pathways for Teacher Instructional Opportunities in Natural Sciences (OPTIONS) September 1, 2002 - August 31, 2007 (\$292,000).

Davis, T.J. (Knowledge Scout), Denton, J.J. (Project Director). Subcontract for “Knowledge Development for the Technology Integration Community Knowledge Development Catalyst Grant.” University of Missouri (prime contractor) with U.S. Department of Education. September 1, 2001-June 30, 2004. (\$138,030).

Davis, T.J. (Director and Investigator), Denton, J.J. (Co-Principal Investigator), Johnson, L. (Principal Investigator). Environmental and rural health education partnership. National Institutes of Health. September 1, 1999 – August 31, 2002 (\$638,400).

Davis, T.J. (Director and Investigator), Denton, J.J. (Principal Investigator), Baldauf, and J. (Co-Principal Investigator) Telecommunications: A conduit to the earth science frontier. Telecommunications Infrastructure Fund Board. September 1, 1999 – February 2, 2001 (\$351,399).

Davis, T.J. (Investigator), Denton, J.J. (Principal Investigator) The technology mentor fellowship program: a model to support intergenerational learning. U.S. Department of Education. September 24, 1999 – December 31, 2002 (\$1,381,284).

Davis, T.J. (Director and Principal Investigator), Ham, R., & Cifuentes, L. Microsoft Corporation, Teacher Training at Microsoft Program 1999, (\$30,000).

INSTRUCTIONAL DEVELOPMENT

- Davis, T. (2003). Designed prototype for online instructional modules for the Accelerate Online secondary teacher certification program, Texas A&M University.
- Davis, T. (2003). Designed and developed the *Online Resource Applications* module for the Accelerate Online secondary teacher certification program, Texas A&M University.
- Davis, T. (2003). Designed and developed the *eCommunication Tools and Applications* module for the Accelerate Online secondary teacher certification program, Texas A&M University.
- Davis, T. & Spencer, K. (2003). Designed and developed the *TrackStar I: Finding Online Lessons* module for the Accelerate Online secondary teacher certification program, Texas A&M University.
- Davis, T. & Spencer, K. (2003). Designed and developed the *TrackStar II: Preplanning an Online Lesson* module for the Accelerate Online secondary teacher certification program, Texas A&M University.
- Davis, T. & Spencer, K. (2003). Designed and developed the *TrackStar III: Developing an Online Lesson* module for the Accelerate Online secondary teacher certification program, Texas A&M University.
- Davis, T., Jessup, G. & Spencer, K. (2000). Designed and developed *Choosing Science eClips* video library and *Developments in Science Resource* for middle school learners. National Space Biomedical Research Institute, Texas A&M University.
- Davis, T. & Spencer, K. (2000). Designed and developed the *Web Design I: Developing an Online Portfolio* module for the Technology Mentor Fellowship Program, Texas A&M University.
- Davis, T. & Spencer, K. (2000). Designed and developed the *Web Graphics I* online module for the Technology Mentor Fellowship Program, Texas A&M University.
- Davis, T. & Spencer, K. (2000). Designed and developed the *Web Graphics II* online module for the Technology Mentor Fellowship Program, Texas A&M University.
- Davis, T. (2000). Designed and developed the *Web Graphics III* online module for the Technology Mentor Fellowship Program, Texas A&M University.
- Denton, J., Davis, T. & Georgis, G. (2000). Designed prototype and developed space-related science online modules, *Energy: It's Everywhere*, *EM Radiation in Everyday Life*, and *Radiation: Where Does It Come From?*, for middle school learners. National Space Biomedical Research Institute, Texas A&M University.

Davis, T. & Spencer, K. (1999-2000). Designed prototype for earth science online modules for middle school learners. Ocean Drilling Distance Learning Program Development, Texas A&M University.

Hunter, J., Davis, T., Spencer, K., & PEER Development Team (1999-2002). Designed prototype and co-developed environmental health science (Water Quality) online modules for middle school learners. Partnership for Environmental Education and Rural Health, Texas A&M University.

Klemm, W., Davis, T., Spencer, K., & PEER Development Team. (1999-2002). Designed prototype and co-developed environmental health science (Cell Biology) online modules for middle school learners. Partnership for Environmental Education and Rural Health, Texas A&M University.

PROFESSIONAL LEADERSHIP AND SERVICE

National and International

Proposal Reviewer, National Science Foundation, Advanced Technological Education Grant Competition, Washington, DC, November 30 – December 2, 2005.

Facilitator and Presenter at the Mayor of Philadelphia's Digital Leadership Caucus held in conjunction with the National Education Computing Conference. Philadelphia, PA, 2005.

Board of Directors Member, re-elected to the International Society for Technology in Education (ISTE) 2005-2007, elected Executive Board of Directors – Treasurer, 2005-2006. [Membership 13,000, Reach 80,000].

Periodicals Task Force Chair, International Society for Technology in Education (ISTE) 2005-2006.

Finance Committee Chair, International Society for Technology in Education (ISTE) 2005-Present.

Conference Committee Member, International Society for Technology in Education (ISTE) 2005-Present.

Board of Directors Member, elected to the International Society for Technology in Education (ISTE) 2003-2005, elected Executive Board of Directors, Treasurer 2004-2005.

Policy Committee Co-Chair, International Society for Technology in Education (ISTE) 2003-2005.

Co-Chair and Planning Committee Member, International Society for Technology in Education (ISTE) Minority Leadership Symposium, National Educational Computing Conference, San Antonio, TX, 2002.

Planning Committee Member, International Society for Technology in Education (ISTE) Minority Leadership Symposium. National Educational Computing Conference, Chicago, IL, 2001.

Member, International Society for Technology in Education (ISTE) Minority Leadership Committee. National Educational Computing Conference, Atlantic City, NJ, 1999.

Speaker, National Summit on the Evaluation of the Effectiveness of Technology Integration for Teaching and Learning. United States Department of Education, Office of Educational Research and Improvement, Washington, D.C, 1999.

United States Department of Education, Challenge Grant Evaluation Team, 1997.

State and Regional

Appointment to the Texas Education Agency, Educational Technology Advisory Committee, 2005-2008.

Appointment to the Texas Education Agency, Educational Technology Advisory Committee, 2000-2003, Co-Chair 2001-2003.

Master Technology Teacher Standards Development Committee, Texas State Board of Educator Certification, 2001.

Prairie View A&M University, Eisenhower Foundation Project SAIL Curriculum Writing Team, Davis, 1996-1997.

Texas Education Agency, Center for Professional Development and Technology, Evaluation Team Member, 1996.

Texas Education Agency, Mathematics TAAS Student Performance Review Team, Davis, 1996.

Texas Education Agency, Mathematics TAAS Item Review Team, 1995.

Schools

Provided *eMath* professional development and curricula development support to 18 mathematics teachers. Lufkin ISD, March 7-8, 2002.

Provided *eMath* professional development and curricula development support to 15 mathematics teachers. Willis ISD, January 17-19, 2002.

Provided *eMath* professional development and curricula development support to 20 mathematics teachers. Henderson ISD, November 2-3, 2001.

Provided *eMath* professional development and curricula development support to 19 mathematics teachers. Waller ISD, July 27-28, 2001.

Waller Independent School District, Carnegie Curriculum Writing Team, 1996-1997.

Texas A&M University

Participated in panel discussion, *Mathematics Teaching Options*. Mathematics Career Fair. Texas A&M University, Fall, 2005.

Designed, developed, and delivered hands-on *TrackStar* workshop to middle school science teachers. Partnership for Environmental Education and Rural Health, Texas A&M University, June, 2002.

Designed, developed, and delivered hands-on *TrackStar* workshop to middle school science teachers. Partnership for Environmental Education and Rural Health, Texas A&M University, June, 2001.

Designed, developed, and delivered hands-on *TrackStar* workshop to middle school science teachers. Partnership for Environmental Education and Rural Health, Texas A&M University, Summer, 2000.

Designed, developed, and delivered *Online Resources/TrackStar* workshop to middle school science teachers. Ocean Drilling Distance Learning Program, Texas A&M University, June, 2000.

Designed, developed, and delivered hands-on *TrackStar* workshop to middle school science teachers. Partnership for Environmental Education and Rural Health, Texas A&M University, June, 1999.

Conducted hands-on workshop, *Online Portfolio Development* at the Texas A&M University, SCR*TEC Technology Intensive '98, Summer, 1998.

College of Education and Human Development

Educational Research Exchange, Proposal Reviewer. Texas A&M University. January, 2007.

Educational Research Exchange, Judge Faculty and Student Posters. Texas A&M University. January, 2007.

Education Research Exchange, Judge Faculty and Student Posters. Texas A&M University. January, 2006.

Presented at informational meeting and luncheon. Education Career Fair. Texas A&M University, Fall, 2005.

Organized, presented, and arranged guest speaker David Jonnassen at faculty development workshop, *The KITE Program and the Role of Stories in Learning: Case-Based Reasoning*. Texas A&M University, November, 2003.

Served on the Model Technology Classroom Development Team, Center for Distance Learning Research, Texas A&M University, 1997.

Department

Invited Speaker at Phi Delta Kappa, Fall Meeting, *Promising Resources for Technology Rich Instruction*. November 8, 2005.

PROFESSIONAL ASSOCIATIONS

International Society for Technology in Education
Association of Educational Communications and Technology
American Educational Research Association
National Council for Teachers of Mathematics

CONFERENCE PRESENTATIONS

National & International

Denton, J., Davis, T., Smith, B., Beason, L., Graham, D., & Roberts, K. (2007). Candidate profiles for admission into and completion of an online secondary teacher certification program. Paper presented at annual meeting of the Southwest Educational Research Association on February 8, 2007, San Antonio, Texas.

Denton, J., Davis, T., Smith, B., Beason, L., Strader, A. An Online Professional Development Model for Pre-service Teacher Education. Paper presented at the E-Learn 2005 10th Annual World Conference on E-Learning in Corporate, Government, Healthcare, & Higher Education. Vancouver BC, Canada, October 26, 2005.

- Denton, J., Davis, T., Smith, B., Beason, L., Strader, A. An Online Professional Development Model for Pre-service Teacher Education. Paper presented at the 1st Annual Conference of CREATE, San Antonio, TX.. September 16, 2005.
- Denton, J., Davis, T., Smith, B., Strader, R., & Clark, F. (2005, March). Net Generation College Students as Technology Mentors for Teacher Educators. Paper presented at the Society for Information Technology & Teacher Education, 16th International Conference. Phoenix, AZ, March 5, 2005.
- Davis, T., & Denton, J. (2004, December). Supervision, Authentic Assessment, and Support: Online Learning Communities that Work. Presented at the U.S. Department of Education, Transition to Teaching Project Directors' Meeting, Crystal City, VA.
- Denton, J. Davis, T., Strader, A., Durbin, B. & Wang, L. (2004). Has State and Federal Support Changed Technology Infrastructure and Professional Development in Texas Public Schools. Paper presented at the ED-MEDIA 2004 Conference, Lugano, Switzerland, June 24, 2004.
- Davis, T. (2004, June). Making the Case for Making the Case for Educational Technology. Presented and Moderator at the International Society for Technology in Education (ISTE) Leadership Symposium (Planning Committee), National Educational Computing Conference, New Orleans, LA.
- Davis, T. (2002). Expert Panelist and Co-Chair at the International Society for Technology in Education (ISTE) Minority Leadership Symposium. National Educational Computing Conference, San Antonio, TX.
- Davis, T. (2001). International Society for Technology in Education (ISTE) Minority Leadership Symposium, Planning Committee. National Educational Computing Conference, Chicago, IL.
- Davis, T. (1999). Evaluating the Use of Technology to Improve Teaching and Learning. Presented and Expert Panelist at the U.S. Department of Education, Improving America's Schools Regional Conference, Education Reform Institute, St. Louis, MO.
- Cifuentes, L., Murphy, K. L., & Davis, T. (1998). Promoting self-esteem, achievement, and multicultural understanding through distance learning. Paper presented at the Association of Educational Communications and Technology Conference, Research and Theory Division. Ames: Iowa State University.
- Cifuentes, L., Murphy, K. L., & Davis, T., Gonzales, E., & Edmundson, C. (1997). Cultural Connections: A model for K-12 videoconferencing.

Paper presented at the Conference on Distance Teaching and Learning, Madison, WI.

Davis, T. (1997). Best practices in distance learning at a Texas Middle School. Presented at the Kentucky Educational Technology Conference, 1997.

Davis, T. (1996). Technology integration at H.T. Jones Intermediate School. Presented at the U. S. Department of Education, Improving America's Schools Conference, St Louis, MO.

Cifuentes, L., Clark, S., & Davis, T. (1996, April). From sages to guides: Using technology to promote professional development. Paper presented at the Annual Conference of the American Educational Research Association, New York, NY.

Regional

Denton, J. Davis, T., Smith, B., Beason, L., & Strader, A., The Development and Implementation of a Professional Development Model for Pre-service Teacher Education. Paper presented at the Southwest Educational Research Association Meeting. New Orleans, LA, February 9, 2005.

Denton, J. Davis, T., Strader, A., Durbin, B., & Wang, L. (2004). Technology Infrastructure and Professional Development in Texas Public Schools. Paper presented at the Southwest Educational Research Association Meeting. Dallas, TX, February 5, 2004.

Denton, J. Davis, T., Smith, B., Beason, L., & Wang, L. (2004). Does an On-line Alternative Certification Program Attract Candidates with Strong Academic Credentials? Paper presented at the Southwest Educational Research Association Meeting. Dallas, TX, February 5, 2004.

Denton, J., Davis, T., Strader, A., Clark, F. & Jolly, D. (2003). Technology Professional Development of Teacher Education Faculty by Net Generation Mentors. Paper presented at the Southwest Educational Research Association Meeting. San Antonio, TX, February 14, 2003.

Davis, T. & Shepperson, J. (2003, February). Texas STaR Chart, Tool for Assessing School Technology and Readiness. Presented at the Texas Computer Education Association (TCEA) State Conference, Austin, TX.

Denton, J., Davis, T., Smith, B., & Clark, F. (2002). On-Line Alternative Certification Program for Secondary Science Teachers. Paper presented at the U.S. Department of Education's 2002 PT3 Grantees' Meeting. Washington, D.C. July 27, 2002.

Davis, T., Strader, A., Clark, F. & Denton, J. (2002). The eEmpowerment Zone Portal: Resources and Strategies that Support Field-Based Education. Electronic

- presentation at the U.S. Department of Education's 2002 PT3 Grantees' Meeting. Washington, D.C. July 26, 2002.
- Denton, J., Smith, B., Davis, T., Strader, A., Clark, F. & Jolly, D. (2002). The Technology Mentor Fellowship Program [TMFP]. Paper presented at the annual meeting of the Southwest Educational Research Association, Austin, TX. February 15, 2002.
- Davis, T. & Denton, J. eEmpowerment Zone: On-line Learning System. PT3 Annual Grantees meeting (2001). Washington DC. August 4, 2001.
- Denton, J., Davis, T., & Strader, A. (2001). Preliminary Report of the 2000 Texas Public School Technology Survey. Telecommunications and Infrastructure Fund Board (TIFB), Austin, TX, March, 2001.
- Davis, T. (2000). Developing Web-based Science Lessons Using TrackStar. Presented at the Texas A&M University, Partnership for Environmental Education and Rural Health (PEER) Intensive, 2000.
- Denton, J., Davis, T., Strader, A., Jolly, D., Jessup, G. Instructional Technology Infrastructure and Staff Development in Texas Schools and in Teacher Education Programs of Institutions of Higher Education. Southwest Educational Research Association Meeting, January 29, 2000.
- Davis, T. (1999, February). SCR*TEC says Y2K (Yes 2 kids) and SCR*TEC presents: Creating web enhanced instruction. Presented at the Nineteenth Annual Texas Computer Education Association State Conference, Austin, TX.
- Davis, T. (1999, February). SCR*TEC Intensive '98 projects and Intensive '99 opportunities. Presented at the Nineteenth Annual Texas Computer Education Association State Conference, Austin, TX.
- Davis, T. & Jolly, D., (1998, February). SCR*TEC resources, tools and professional development model. Presented at the Texas Center for Educational Technology Conference, Austin, TX.
- Cifuentes, L., Metcalf, T., Clark, J., Davis, T., & Clark, S. (1996, January). Personal growth through multimedia development. Paper presented at the Third Annual Distance Education Conference, Dallas, TX.
- Cifuentes, L., Metcalf, T., Murphy, K. L., Gonzales, E., & Davis, T. (1996, November). Connecting adolescents via telecommunications. Paper presented at the 45th Annual Texas Educational Technology Conference, Austin, TX.

COLLABORATIVE EDUCATION AND OUTREACH EFFORTS

SCR*TEC – South Central Regional Technology in Education Consortium

Davis, T.J. (Program Coordinator and Investigator), Denton, J.J. (Project Director) Texas Regional Technology Consortium - subcontract University of Kansas from U.S. Department of Education, October 1995-2000 (\$1,085,000). This five university consortium led by the University of Kansas with TAMU's College of Education as the Texas partner targeted instructional applications of the World Wide Web during its infancy in public education. The primary outcome of this effort were 350 to 400 Texas Technology Directors (ESC and district) and public school teachers from all 20 ESC Regions in the state became pioneers in instructional applications using web resources, especially TrackStar with their students (estimated 40,000 across the project) TrackStar, a tool developed at the University of Kansas continues to be accessed more than a million times each day by teachers with Texas teachers being among the most frequent users.

Texas Public School Technology Surveys – 1998, 2000, 2002

Three small grants from TAMUS, TAMU-College of Education, and the Texas Infrastructure Fund Board with funding from SCRTEC were used to conduct public school district technology surveys on the integration of technology in Texas public schools between 1996 and 2002. These surveys evolved from a mail delivery approach to ALL ISDs during this six year period. These efforts did inform and influence the distribution of \$ 900,000,000 in state funds from the Telecommunications Infrastructure Fund Board to public schools throughout the state for technology infrastructure.

Web-based Instructional Resources for Middle School Science Students & Parallel Professional Development Programs for Science Teachers & Interdisciplinary Teams

Davis, T.J. (Director and Investigator), Denton, J.J. (Co-Principal Investigator), Johnson, L. (Principal Investigator). Environmental and rural health education partnership. National Institutes of Health. September 1, 1999 – August 31, 2002 (\$638,400).

Davis, T.J. (Director and Investigator), Denton, J.J. (Principal Investigator), Baldauf, and J. (Co-Principal Investigator) Telecommunications: A conduit to the earth science frontier. Telecommunications Infrastructure Fund Board. September 1, 1999 – February 2, 2001 (\$351,399).

Davis, T.J. (Director and Principal Investigator), Denton, J.J. (Principal Investigator) Contract with NASA Johnson Space Center, "Middle School Aerospace Scholars." January 1, 2002 – October 31, 2005 (\$269,304).

Three different outreach efforts have resulted in the development of 30 web-based instructional units for environmental science, earth science, space life science and the professional development of approximately 200 science teachers impacting

20,000 middle school science students who have used these resources. The collaborations that have occurred from these projects have led to other initiatives that are currently underway.

Preparing Tomorrow's Teachers to Use Technology (PT3) Efforts – Including the Technology Mentor Fellowship Program [TMFP]

Davis, T.J. (Investigator), Denton, J.J. (Principal Investigator) The technology mentor fellowship program: a model to support intergenerational learning. U.S. Department of Education. September 24, 1999 – December 31, 2002 (\$1,381,284).

Davis, T.J. (Knowledge Scout), Denton, J.J. (Project Director). Subcontract for “Knowledge Development for the Technology Integration Community Knowledge Development Catalyst Grant.” University of Missouri (prime contractor) with U.S. Department of Education. September 1, 2001-June 30, 2004. (\$138,030).

These projects were funded by the U.S. Department of Education and have addressed the professional development of teacher educators at TAMU with integrating technology into the teacher preparation of tomorrow's teachers. Over 600 teaching candidates became very proficient users of technology in providing mentor support to 150 faculty members (college and public school teachers working with teaching candidates). These efforts also led to the development of the *I-folio* system, and the *eEmpowerment Zone & Integrated ePortfolio* system which is the instructional delivery system for the *Accelerate Online* teacher certification program.

Accelerate Online Teacher Certification Program for Secondary Science and Mathematics Teachers

Davis, T.J. (Investigator), Denton, J.J. (Principal Investigator) An On-Line Alternative Certification Program at Texas A&M University. Transition To Teaching Program Local. U.S. Department of Education. November 1, 2003 – October 31, 2007 (\$1,870,260).

Davis, T.J. (Investigator), Denton, J.J. (Principal Investigator) Subcontract on contract from Baylor University for Houston Endowment grant, Opening Pathways for Teacher Instructional Opportunities in Natural Sciences (OPTIONS) September 1, 2002 - August 31, 2007 (\$292,000)

Two funded projects with key partners being Baylor College of Medicine and the Houston Independent School District have resulted in an online teacher certification program. This program consists of an online component consisting of more than 35 modules (delivered in the *eEmpowerment Zone*), an early field experience and a year-long paid internship. Now in its fourth year of operation, this program has evolved to include nearly 100 individuals actively pursuing teacher certification in secondary science and/or mathematics.