Karen Jo Matsler, Ed.D

kmatsler@uta.edu 817-733-2293

Education Background/Certification	
Argosy University, Doctorate in Curriculum and Instruction	May 2004
University of Sarasota, Education Specialist	Sept. 2003
Texas Tech University, MS (Secondary Education)	1981-1986
Texas Tech University, BSED (Composite Science)	1973-1977
University of Dallas (12 hrs physics graduate credit)	1997, 2006, 2009
Idaho State University (3 hrs graduate credit)	2009
Brigham Young University (2 hours graduate credit)	2008
Colorado. School of Mines (4 hrs physics graduate credit)	1992
Work History	
UTeach Master Teacher, University of Texas @ Arlington	2011-current
President of Education Assessment and Training Inc. (EAT)	2001_current

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UTeach Master Teacher, University of Texas @ Arlington	2011-current
President of Education Assessment and Training. Inc. (EAT)	2001-current
Dallas Baptist University, adjunct professor (Physics, Education)	2000-current
External evaluator for Department of Education Math Science Partnership Grants	(see listing
below in Evaluation Projects)	2007-current
Argosy University, adjunct professor (Curriculum and Instruction)	2006-2013
Southern Methodist University (SMU), adjunct professor (Education)	2011-2013
University of Dallas, Director for Teacher Quality Grants	2005-2009
Co-PI National Science Foundation Grant (Science Education, \$6 million)	2002-2008
K-12 Science Coordinator, Birdville Independent School District	2003-2005
K-12 Science Coordinator, Lancaster Independent School District	2002-2003
Lamar High School, Arlington (physics, physical science, biology teacher)	1989-2002
Atkins Junior High, Lubbock (physical science teacher)	1987-1989
Texas Tech University, Teaching Assistant (science lab instructor)	1982-1983
Hutchinson Junior High, Lubbock (7th hon. Biology teacher)	1980-1982
Lamar High School, Arlington (physics, biology teacher)	1977-1980

STEM Related Experience (volunteer)

OT LIN Related Experience (Volunteer)	
Grapevine-Colleyville ISD STEM Advisory Council	2013-current
Inquiry Institute STEM Task Force (Curriculum Development)	2007-current
FWMSH STEM Institute Presenter and Consultant	2013-current
Fort Worth Museum Board of Directors for Educational Programs	2012-current
National Director for AAPT/PTRA (PTRA)	2012-current
ESC Region XI Instruction Team for STEM/TRC Grants	2007-current
Advisor for Physics MasterTeacher Leader Task Force (AAPT)	2016-current
NSTA Science Scope Publishing Advisory Board	2013-2016
Metroplex Area Science Supervisors, Board of Directors (founder)	2013-2015
Internal Program Evaluator for AAPT/ PTRA Rural Project	2003-2010
Dallas Baptist University Educator Preparation Board	2007-2010
Physics Teacher Resource Agent	2000-current
Texas Physics Assessment Team (TPAT)	2003-2014
Trainer for End-of-Course State Exams (Texas Education Agency)	2010-2015

Professionally Related Experience (volunteer, offices held, committees)

Executive Board for American Association of Physics Teachers (elected)	2016-2019
Perimeter Institute for Theoretical Physics (Perimeter) instructor for Einstein Plus	
Academy for teachers (international program)	2014-2016
Texas Education Agency certified professional development provider	2013-current
Texas Education Certification Standards Committee, TExES	2014
AAPT National nominating committee	2013
AAPT Texas Section Representative (national)	2013-2016

Advisory Committee, Noyce Grant, Texas State University Committee on Physics in Pre High School Education (AAPT) PTRA National Advisory Board (appointed) AAPT e-Mentoring Committee (appointed) UTA Dept. of Education Disposition Committee Science Teacher Association of Texas Legislative Committee (appointed) PTRA Publication Editorial Review Board	2012-2016 2012-2015 2003-2010 2011-current 2011-2012 2011-2012 2003-current
Past President Texas Section AAPT (<u>TSAAPT</u>) American Institute of Physics (<u>AIP</u>), Governing Board Advisory Committee on Physics Education (appointed) President Texas Section AAPT (<u>TSAAPT</u>) (elected) Science Teacher Association of Texas, Executive Board (elected) Secretary Science Teacher Association of Texas (<u>STAT</u>) (elected) AAPT High School National Committee (Physics) (appointed)	2012-2013 2007-2012 2010-2011 2-2006, 2011 2009-2010 2007-2010
President Texas Science Education Leadership Association (TSELA) (elected) Site coordinator for Teacher Expo, APS-DPP Texas Section AAPT Executive Council or Representative Texas PTRA Rural Initiative Director Texas Education Agency Advisory Committee on Assessments Committee Chair, CAST (State Science Teacher meeting)	2008-2009 2008-09 2002-09 2002-2009 2006-2008 2007-08
Panelist reviewer for the National Science Foundation Texas Education Agency Physics Task Force Committee Chair National Science Teacher Association Secretary for Texas Science Education Leadership Association Science Teacher Association of Texas Awards Committee AAPT Committee for teacher mentoring (PhysTEC)	2007 2007 2004-2005 2004-2005 2004 2003-2004
AAPT Committee for teacher mentoring (11ys120) AAPT Committee for Preparation of Pre-service Teachers Regional Director/Coordinator for Urban PTRA Project Arlington ISD school boundary committee (2010 committee) Honors Received	2002-2003 1999-2002 1999-2001
Katherine Mays Award, Outstanding Contributions to Physics Education American Physical Society (APS) Excellence in Education Award American Association of Physics Teachers (AAPT) Outstanding Service Citation Teacher of the Year, Lamar High School RadioShack National American Teacher Award Grand Marshall, Arlington 4 th of July Parade, National Tandy Teacher Award, Honorable Mention	May 2002 Mar. 2000 July 2000, 2004 Feb. 1999
Arlington AWARE Runner Up (Top Teacher in the District Award) Lamar High School Teacher of the Month April 1997, Feb Arlington ISD Wall of Fame	May 1998 . 2001, Jan 2002 2000

Recent Presentations

Texas Section AAPT/APS Spring Conference, Baytown, TX, Invited Speaker, *Engaging Teachers in Professional Development*, and workshop *Mystery of Dark Matter*, March 6-7, 2015

National Science Teacher Association, Chicago, IL, Was Newton Wrong? March 12, 2015.

Assoc. of Texas Professional Educators, Secondary Teacher of the Year (state) 1996

ESC 3, REAL Conference (Regional Excellence through Academic Leadership), Victoria, TX, *Addressing Accountability for both Students and Teachers*, Aug 19, 2015.

Texas Section AAPT/APS Fall Conference, Baylor University, 1) Dark Matter and 2) The Physics of Metallurgy, Environment, and Corrosion. Oct 30, 2015.

Conference for the Advancement of Science Teaching (CAST), Fort Worth, TX, 1) Can You hear me Now? 2) Taking the Leap to Quantum. Nov 12, 2015.

Region 10 Educational Service Center, Critical Concepts in Biology, Dec. 15-16, 2015.

2016

American Association of Physics Teachers, New Orleans, LA, *Corrosion Engineering in Chemistry,* Jan. 11, 2016

FWMSH/PTRA Quantum workshop, Fort Worth, TX, *Principles of Quantum and Technology,* June 13-17, 2016

Lee College/PTRA Quantum workshop, Baytown, TX, *Principles of Quantum and Technology,* June 20-24, 2016.

Perimeter Institute for Theoretical Physics, Waterloo, Canada, facilitator and presenter, *Einstein Plus International Institute*, July 3-12, 2016.

AAPT/PTRA Leadership Institute, Sacramento, CA 1) *Elementary Chemistry* and 2) *Can you control your impulse?* July 13-16, 2016

Birdville Independent School District, Birdville, TX, *Teaching Physics Conceptually*, August 17, 2016. Conference for the Advancement of Science Teaching (CAST), San Antonio, TX, 1) *What is a Black Hole Anyway?*, 2) *Things are a little Quarky*, 3) 30 demos in 60 minutes, and 4) *Understanding Circuits* Nov. 10-12, 2016.

National Network for Education Renewal (NNER), Arlington, TX, Building a Successful Science and Mathematics Teacher Preparation Program. Nov

Current Projects funded by Math Science Partnerships, National Science Foundation and/or Teacher Quality Grants (Department of Education):

Idaho State University, STEM PD for Eastern Idaho Elementary Teachers, 2007-2017 University of Texas @ Dallas, NOYCE, 2010-2017

Evaluator for Completed Education and Professional Development Projects:

University of West Georgia, SMITE, elementary and middle school science teachers, 2013-2017 Frostburg University, TOPPS, Maryland Higher Education Commission, 2007-2015 University of Texas @ Dallas, STEP, 2010-2017

Lee College, Program for Physics Faculty, Advanced Technological Education (ATE) 2010-2015 University of Arkansas, Opportunities in Physics & Physical Science, 2008-2011

George Washington University, Acts II Institute, 2008

University of West Georgia, TIPPS, 2007-2013

North Carolina (Belmont Abbey, UNCG, UNCP, UNCC), 2008-2010

American Association of Physics Teachers, PTRA, 2003-2008

Towson University MPIRE, Maryland Higher Education Commission, 2011-2013 American Association of Physics Teachers, PTRA, 2003-2008

Professionally Related Publications

Non-published classroom texts and other materials

Matsler, K., Mader, J. (2012), Comprehensive Conceptual Curriculum for Chemistry

Matsler, K., Story, S., (2010), Games to Prepare your Students for TAKS.

Olenick, R., Mader, J., Matsler, K., (2009) *Comprehensive Conceptual Curriculum for Physics*. University of Dallas, Dallas, TX

Matsler, K. (July 2005) *Teaching Electricity. Manual for AAPT/PTRA*. American Association of Physics Teachers.

Matsler, K. (July 2005) *Teaching Inquiry. Manual for AAPT/PTRA*. American Association of Physics Teachers.

Matsler, K. (2004) CASTLE: Teaching Electricity and Magnetism, A Manual for Leaders.

American Association of Physics Teachers.

Mader, J., Matsler, K., & Winn, M. (2000) Comprehensive Conceptual Curriculum for Physics Curriculum. American Association of Physics Teachers.

McCullough, R., Matsler, K., Borst, R. (2003, 2004). *Use of Technology in the Physics Classroom*, AAPT/PTRA.

Dissertation

Matsler, K. (2004). Assessing the impact of sustained, comprehensive professional development on rural teachers as implemented by a national science teacher training program. A dissertation approved by Argosy University, Sarasota, FL

Published texts and materials

- Amann, Mader, Matsler, Nelson (2012). AAPT/PTRA—A Part of the Solution. The Physics Teacher, Vol. 49, Dec. 2011, pp. 560-563.
- Olenick, Matsler, Mader. (2007) Comprehensive Conceptual Curriculum for Physics, University of Dallas, Department of Physics
- Steinberg, M., Wainwright, C., Morse, R., Matsler, K. (2004) *Using CASTLE in the high school curriculum*. Posted on PASCO website as resource for teachers.
- Olenick, R., Mader, J., Matsler, K., Winn, M. (2000). *C*³*P* 2000+. University of Dallas, Department of Physics.
- Olenick, R. et. al (1997). *Comprehensive Conceptual Curriculum for Physics*. University of Dallas, Department of Physics and TLTG, Austin, TX
- Matsler, K. (Feb 1992). Catch the spirit—activities for Olympics. Learning '92

Current Professional Memberships

American Association of Physics Teachers (AAPT)

American Evaluation Association (AEA)

National Science Education Leadership Association (NSELA)

National Science Teachers Association (NSTA)

Science Teachers Association of Texas (STAT)

Texas Association of Physics Teachers (TSAAPT)

Texas Science Education Leadership Association (TSELA)