

Madelon McCall, Ed.D.
Curriculum Vitae
August 2016

Clinical Assistant Professor
Baylor University
School of Education
Department of Curriculum & Instruction
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PROFESSIONAL EDUCATION

2008	Ed.D.	Baylor University	Waco, TX
		Curriculum and Instruction	
1997	M.S.	Baylor University	Waco, TX
		Biology	
1978	B.S.	Lamar University	Beaumont, TX
		Secondary Education: Minors in Chemistry & Biology	

PROFESSIONAL APPOINTMENTS

June 2015-Present	Baylor University	Waco, TX
Clinical Assistant Professor		
Courses taught:		
Secondary Science Practicum I & II		
Secondary Teaching Associate Practicum I & II		
Chemistry and Life Science		
Administrative Responsibilities:		
Professional Development School University Liaison		
Research and New Program Initiatives		
Curriculum Development & Implementation of Integrated Science 2410 & 2420-courses approved October 2014, implemented fall 2015. Approved IRB for 2015-16.		
Teacher Effectiveness in Secondary and Post-Secondary Schools and Universities, approved IRB for 2015-16.		
Implementation of Co-Teaching as Model for Pre-Service Teacher Field Experiences, approved IRB for 2015-16.		
B.S. in Physics with a concentration in Secondary Physics and Mathematics Education, Partnership with the Department of Physics, approved Spring 2016.		

Fall 2011-June 2015	Baylor University	Waco, TX
Lecturer: Full-Time		
Courses taught:		

Introduction to Secondary Teaching
Secondary Teaching Associate Practicum II
Secondary Science Practicum I & II
Teaching Science in the Secondary School
Graduate Teaching Internship (Strickland Scholars)
Graduate Special Techniques in Secondary Schools (Strickland Scholars)

Administrative responsibilities:

Professional Development School University Liaison to Midway High School
Secondary Certificate Program Coordinator

Research Initiatives

Baylor Waco Partnership for Excellence in Science: Developing J. H. Hines Elementary as a Science Specialty School (2012-13)
Development of Integrated Science 2410 & 2420-courses approved October 2014

PUBLICATIONS

Refereed

2013

Nesmith, S., Park, J., & **McCall, M.** Longitudinal change in science self-efficacy of elementary teachers. In A. L. White, & D. F. Berlin (Eds.), *Initiatives in Mathematics and Science Education with Global Implications*. Columbus, OH: ISBN 0-9727338-5-X

Conference Proceedings

2014

Nesmith, S. M., **McCall, M. J.**, & Park, J. C. Effects of a science content academy on science self-efficacy of elementary teachers [Abstract]. Proceedings of the 2014 International Association for Science Teacher Education Conference, Paper #10113. Retrieved from <http://theaste.org/publications/2014-proceedings/>

1997

McCall, J. Seasonal fire effects on species richness in a mixed-grass prairie of central Texas. In Warwick, Charles (ed.). *Proceedings Fifteenth North American Prairie Conference*, Chicago, IL. Retrieved from <http://images.library.wisc.edu/EcoNatRes/EFacs/NAPC/NAPC15/reference/econatres.napc15.mmccall.pdf>

Non-Refereed Publications

2015

McCall, M., Gasaway, J., & Osborne, L. (December 3). Interview Skills and the PDS Partnership at Baylor University [Web blog post]. Retrieved from <http://napds.org/stories-from-the-field/interview-skills-and-the-pds-partnership-at-baylor-university/>

Manuscripts In Preparation

2016

McCall, M., & Rogers, R. *Teacher Training in Middle and High Schools: Results Of A One-Year Implementation of the Co-Teach Model*.

McCall, M. *Attitudes, Efficacy, and Content: Formulating a Science Course for Elementary Pre-Service Teachers*.

INVITED PRESENTATIONS

2016

McCall, M. (October). *Teaching Elementary Science...I Think I Can?!* School Science and Mathematics Association, Phoenix, AZ.

McCall, M., Rogers, R., Gasaway, J., Cox, H., & Osborne, L. (March). *Implementation of the Co-Teach Model in Secondary Teacher Preparation.* National Association of Professional Development Schools, Washington, DC.

McCall, M., Strange, K., & Rubio, B. (March). *Growing Pains and Gains: School Turn-Around and the PDS Partnership.* National Association of Professional Development Schools, Washington, DC.

2015

McCall, M., & Nesmith, S. (October 31). *Elementary Science Teacher Preparation: The Importance of Breadth and Depth of Content.* School Science and Mathematics Association, Oklahoma City, OK.

McCall, M. (October 14). *No Textbook, No Lecture...No Way!* Baylor Provost Faculty Forum, Waco, TX.

McCall, M., & Nesmith, S. (October 3). *Using Required Targeted Content Courses to Prepare Elementary Education Majors to Teach Science.* Southwest Association of Science Teacher Educators, Denton, TX.

Rogers, R., Cox, H., Bowden, B., **McCall, M.,** & Osborne, L. (March). *Co-teaching: Equity in the PDS Classroom.* National Association of Professional Development Schools, Atlanta, GA.

McCall, M. (February). *Qualities of Effective High School Teachers: Addressing the Pre-Service Teacher Perspective.* Association of Teacher Educators, Phoenix, AZ.

2014

McCall, M., Park, J., & Nesmith, S. (November). *Meeting Their Needs-Science Content Courses for Elementary Pre-service Teachers.* School Science and Mathematics Association, Jacksonville, FL.

McCall, M., Gasaway, J., & Osborne, L. (August). *From Mentee to Colleague: Mentoring Pre-Service Professionals.* Back to School Summit Midway ISD, Waco, TX.

McCall, M., Gloer, S., Wood, R., & Almaguer, D. (March). *Never a Dull Moment: Certificate Changes and the PDS.* National Association of Professional Development Schools. Las Vegas, NV.

McCall, M., Gasaway, J., Merritt, B., & Canuteson, A. (March). *Cashing In: Pre-Service Teacher Professional Development in the PDS.* National Association of Professional Development Schools. Las Vegas, NV.

Nesmith, S., **McCall, M.**, & Park, J. (January). *Longitudinal Change in Science Self-Efficacy of Elementary Teachers*. Association of Science Teacher Educators, San Antonio

2013

McCall, M., Nesmith, S., & de Mesa, M. (May). *The Hows and Whys of Creating a CCRS Continuum in the University Science Classroom*. College and Career Readiness Initiative Faculty Collaborative Culminating Conference, funded by the Texas Higher Education Coordinating Board in Houston, TX.

Park, J., **McCall, M.**, & Nesmith, S. (November). *Science Content Academy for Elementary Teachers: A Reflection on Events*, School Science and Mathematics Association, San Antonio, TX.

Park, J., **McCall, M.**, & Nesmith, S. (October). *Elementary Teachers' Ideas of Density from an Atomic Viewpoint*, Southwest Association of Science Teacher Educators, San Antonio, TX.

McCall, M., Nesmith, S., & de Mesa, M. (April). *Introduction to CCRI*. College and Career Readiness Initiative, Science Faculty Collaborative, Funded by the Texas Higher Education Coordinating Board in Waco, TX.

Park, J., Nesmith, S., & **McCall, M.** (March). *Change in Science Content Knowledge and Self-Efficacy of Elementary Teachers*. International Consortium of Research in Science and Mathematics Education in Managua, Nicaragua.

McCall, M., Gasaway, J., & Osborne, L. (February). *From Green to Gold: Growing a University and Public School Partnership*. National Association of Professional Development Schools, New Orleans, LA.

2012

Nesmith, S., **McCall, M.**, & de Mesa, M. (October 2012). College and Career Readiness Initiative, Science Faculty Collaborative presentation, funded by the Texas Higher Education Coordinating Board in Waco, TX.

McCall, M. (August 2012). *Becoming a Teacher Leader*. Secondary Teacher Summer Summit, Baylor University.

Nesmith, S., **McCall, M.**, & Park, J. (November 2012). *Grappling with Teachers Unnatural Understanding of the Nature of Science*. School Science and Mathematics Association, Birmingham.

McCall, M., Nesmith, S., & Park, J. (August). *Teaching the Essence of Science*. Back to School Summit- Midway ISD in Waco, TX.

2011

McCall, M. (August). *Transformative Assessment*, Back to School Summit Midway ISD in Waco, TX

2008

McCall, M. (February). *Qualities of Effective Secondary Science Teachers: Perspectives of University Biology Students*. Association of Teacher Educators National Conference, San Diego.

1996

McCall, M. (October). *Seasonal Fire Effects on the Species Diversity of Mixed Grass Prairies in Central Texas*. North American Prairie Association National Conference, Chicago.

EXTERNALLY FUNDED RESEARCH

2012 Baylor Waco Partnership for Excellence in Science

ACADEMIC and PROFESSIONAL HONORS and AWARDS

2015-16 Baylor Fellow, Academy of Teaching and Learning, Baylor University, Waco, TX

2015 Summer Sabbatical Award. Baylor University, Waco, TX

2014 University Teaching Grant, Baylor University, Waco, TX

2014 Summer Faculty Institute Award, Academy of Teaching and Learning, Baylor University, Waco, Texas

2013 Quest for Quality Award: Center for Research, Evaluation and Advancement of Teacher Education

TEACHING CERTIFICATIONS

2009 Texas Principal Certification

Principal Grades EC-12

1978 Texas Teacher Certifications:

Secondary Chemistry Grades 6-12

Secondary Biology Grades 6-12

Secondary Physical Science Grades 6-12

Secondary Life-Earth Science Grades 6-12

Secondary General Science Composite Grades 6-12

TEACHING EXPERIENCE

2010-11

Baylor University

Waco, TX

Adjunct Faculty

Courses taught:

Teaching Science in the Secondary School

Special Problems in Secondary Physics Education

2006-11

Midway High School

Waco, TX

Science Instructional Specialist

2006-11

Facilitated TEKS implementation and alignment in core and elective sciences

Professional Development Presenter and Science Professional Development Coordinator
Cross-Curricular Secondary Instruction (district)
Data Driven Decisions (campus)
Transitioning to the New Science TEKS (district)
Transformative Assessment (district)
Best Practices in Math and Science-Using Graphic Organizers for RtI (district)
 On-site science instructional leader/facilitator
 High school strategic planning team and administrative team
 Science TAKS analyst and intervention specialist
 Liaison for vertical alignment of science at the middle school, high school, and district
 Academies of Studies STEM representative

2006-07 **Baylor University** **Waco, TX**
 Internship Secondary Science Part I-IV
 Research assistant to Dr. Betty Conaway

2005-2006 **Baylor University** **Waco, TX**
 Teaching assistant to Dr. Larry Browning- Introduction to Teaching
 Research assistant to Dr. Betty Conaway

2000-2004 **Midway High School** **Waco, TX**
 Chemistry, Environmental Science
 Chemistry Vertical Team Leader (Curriculum Alignment K-12)
 New Teacher Mentor
 Midway Foundation Grant Recipient (5 times)
 Best Buy Grant Recipient

1996-97 **Baylor University** **Waco, TX**
 Graduate assistant to Dr. Walter Holmes, Biology
 Assisted in the teaching of plant taxonomy

1984-85, 1992-93 **Waco Christian School** **Waco, TX**
 Chemistry: Instituted the first chemistry program at Waco Christian School (now Texas Christian Academy)

1979-83 **Texas Military Institute** **San Antonio, TX**
 Chemistry: (Introductory, Chem. I, Chem. II), Earth Science

1978-79 **Little Cypress-Mauriceville ISD** **Orange, TX**
 Chemistry, Biology, Physical Science

PROFESSIONAL ORGANIZATIONS

Association for Supervision and Curriculum Development
 Association of Teacher Educators
 Association of Science Teacher Educators
 International Consortium of Research in Science and Mathematics Education
 Kappa Delta Pi

National Association of Professional Development Schools
National Association for Research in Science Teaching
National Science Teacher Association
School Science and Mathematics Association
Southwest Association of Science Teacher Educators

SERVICE

Baylor University

- 2016** **Faculty Search Committee**-School of Education
 Postdoctoral Search Committee-Academy of Teaching and Learning
- 2015-16** **Academy of Teaching and Learning**
 Provost Faculty Forum, peer teaching observation and review, faculty search committee
 SOE Recognition and Development Committee
- 2014-15** **Dean's Council for Recruiting and Retaining Mathematics and Science Teachers**
- 2011-16** **Baylor Science Collaborative:** This group was organized to encourage collaborative discussions between Baylor University science education professors and science professors, and public school district level science specialists and administrators.
- 2012-15** **Secondary Certificate Coordinator**
- 2011-16** **Recruiting Events**
 Majors Fair
 Know Where You Are Going
 Distinguished Scholars Day
 Parents Weekend
- 2012-16** **National Council for Accreditation of Teacher Education**-Specialized Professional Association (National Science Teacher Association) report writer for secondary science education.
- 2015** **Co-Teaching & Collaboration Initiative**-Trainer of trainers
- 2013-14** **Memorable Teacher Committee**
- 2013-14** **SOE Scholarship Committee**

Discipline and Professional Community

- 2015-16** **Baylor University/University High School Steering Committee**
- 2012-16** **Reviewer**-Electronic Journal of Science Education
 Awards and Endowments Committee-School Science and Mathematics Association
- 2011-16** **Baylor University/Midway High School Steering Committee**
 Professional Development-Waco Independent School District, Midway Independent School District
- 2012-15** **Central Texas Engineering and Science Fair Judge**
- 2012-13** **College and Career Readiness Standards Initiative**

Church

- 1983-present** **Crestview Church of Christ-Waco**