

Presentations by PhysTEC Members

A list of PhysTEC-related workshops, talks, and presentations made by faculty members and TIRs from PhysTEC member institutions at various national, regional, and local events

PPI	Year	Type	Primary Authors	Title	Event
Arizona	2007	Paper	Novodvorsky, I., Talanquer, V., Tomanek, D.	Comparing Experienced & Prospective Science Teachers' Reasoning about Assessments	NARST Annual Meeting, New Orleans, LA
Arizona	2007	Paper	Novodvorsky, I., Talanquer, V., Tomanek, D.	Cognitive and Contextual Factors Associated with Secondary Science Teachers' Reasoning about Planned Formative Assessments	American Educational Research Association Annual Meeting., Chicago, IL
Arizona	2006	Contributed Talk	Novodvorsky, I.	A Capstone Course for Prospective Physics Teachers	AAPT Summer Meeting, Syracuse, NY
Arizona	2006	Invited Presentation	Novodvorsky, I.	Preparing Physics and Chemistry Teachers at the University of Arizona	APS April Meeting, Dallas, TX
Arizona	2006	Invited Talk	Novodvorsky, I.	It Takes a Village: Preparation of Physics Teachers	AAPT Summer Meeting, Syracuse, NY
Arizona	2006	Paper	Novodvorsky, I., Talanquer, V., Tomanek, D.	Assessing the Effectiveness of an Initial Teacher Preparation Program	NARST Annual Meeting., San Francisco, CA
Arizona	2006	Presentation	Novodvorsky, I., Talanquer, V., Tomanek, D.	Student teachers' thinking revealed in self-reported dilemmas	NARST Annual Meeting., San Francisco, CA
Arizona	2005	Contributed Poster	Novodvorsky, I., Little, J.	Revised physics lab curricula at University of Arizona	AAPT Summer Meeting, Salt Lake City, UT
Arizona	2005	Contributed Talk	Novodvorsky, I., Little, J.	Divergent teaching styles among physics graduate students	AAPT Summer Meeting, Salt Lake City, UT
Arizona	2005	Contributed Talk	Novodvorsky, I., Talanquer, V., Tomanek, D.	The assessment of an initial science teacher preparation program	AAPT Summer Meeting, Salt Lake City, UT
Arizona	2005	Invited workshop	Novodvorsky, I.	How do We Define and Measure "Better Prepared" in our PhysTEC Graduates?	PTEC Conference, Muncie, IN
Arizona	2004	Contributed Talk	Novodvorsky, I., Little, J.	Assessing and Revising Physics Lab Curricula	AAPT Summer Meeting, Sacramento, CA
Arizona	2004	Contributed Talk	Novodvorsky, I., Talanquer, V.	Student Understanding in Upper-Division Physics	AAPT Summer Meeting, Sacramento, CA
Arizona	2004	Contributed Talk	Novodvorsky, I.	Physical Science Methods: A Content Course or a Methods Course?	AAPT Summer Meeting, Sacramento, CA
Arizona	2004	Invited Presentation	Novodvorsky, I.	The Role of a Physics TIR in Physics Course Reform	APS April Meeting, Denver, CO
Arizona	2004	Roundtable	Novodvorsky, I.	Student Understanding in Upper-Division Physics	Physics Education Research Conference, Sacramento, CA
Arizona	2003	Contributed Talk	Novodvorsky, I., Byrum, D.	The Role and Influence of a TIR Within PhysTEC	AAPT Winter Meeting, Austin, TX
Arizona	2003	Contributed Talk	Novodvorsky, I., Garcia, J.	Laboratory Experiences: Can They Be Fun?	AAPT Winter Meeting, Austin, TX

Arizona	2003	Contributed Talk	Novodvorsky, I., Byrum, D.	A Few Observations About Working with the Lab TAs for an Engineering Course	AAPT Summer Meeting, Madison, WI
Arizona	2003	Contributed Talk	Novodvorsky, I., Garcia, J.	Revision of Introductory Physics Laboratories	AAPT Summer Meeting, Madison, WI
Arizona	2003	Contributed Talk	Novodvorsky, I.	Revision of Introductory Physics Lectures	AAPT Summer Meeting, Madison, WI
Arizona	2003	Invited Panel Session	Novodvorsky, I.	Physics Teacher Education in the USA: Strategies for Improvement	2nd International GIREP Seminar, Udine, Italy
Arizona	2003	Invited Presentation	Novodvorsky, I.	The Impact of Educational Research on Physics Teacher Preparation	2nd International GIREP Seminar, Udine, Italy
Arizona	2003	Invited Presentation	Novodvorsky, I.	The Role of the Teacher in Residence at the University of Arizona	PhysTEC Conference, Tucson, AZ
Arizona	2003	Invited Presentation	Novodvorsky, I. et al.	Secondary Science Teacher Preparation at the UA	PhysTEC Conference, Tucson, AZ
Arizona	2002	Invited Panel Session	Novodvorsky, I.	Science Methods Course in a Revised Curriculum	PhysTEC Conference, Kalamazoo MI
Arizona	2002	Invited talk	Novodvorsky, I.	Mentoring Beginning Secondary Science Teachers	AAPT Summer Meeting, Boise, ID
Arizona	2002	Presentation	Novodvorsky, I.	Navigating our Roles in a New Context: Building a Secondary Science Teacher Preparation Program	NARST Annual Meeting, New Orleans, LA
Arizona	2002	Workshop	Novodvorsky, I.	Mentoring and Induction of New Teachers	AAPT Summer Meeting, Boise, ID
Arizona	2001	Colloquium	Novodvorsky, I.	Getting the Physics Department Involved in Teacher Preparation	University of Connecticut, Storrs, CT
Arizona	2001	Contributed Talk	Novodvorsky, I.	Teacher Preparation in The University of Arizona College of Science	AAPT Winter Meeting, San Diego, CA
Arizona	2001	Invited Presentation	Novodvorsky, I.	A Novel Way to Prepare Science Teachers	AAPT Summer Meeting, Rochester, NY
Arizona	2001	Invited Presentation	Novodvorsky, I.	Preparing K-12 Science Teachers at the University of Arizona	APS April Meeting, Washington, DC
Arizona	2001	Presentation	Novodvorsky, I.	Design & Implementation of a Science Teacher Preparation Program in a College of Science	Association for Education of Teachers in Science Annual Conference, Costa Mesa, CA
Arkansas	2006	Invited Talk	Stewart, G.	Better prepared future teachers = better physics department!	APS March Meeting, Baltimore, MD
Arkansas	2006	Poster session	Stewart, G.	Engaging the Community in the Preparation of Teachers of Physics	AAPT Summer Meeting, Syracuse, NY
Arkansas	2006	Workshop	Stewart, G., Otero, V., Vokos, S.	Undergraduate Learning Assistants: A Powerful Way to Improve Student Learning and Recruit Future Teachers,	AAPT Summer Meeting, Syracuse, NY
Arkansas	2005	Presentation	Stewart, G.	More and Better Prepared K-12 Science Teachers; How Do We Know?	APS April Meeting, Tampa, FL
Arkansas	2005	Presentation	Stewart, G.	Combining Programs to Benefit Current and Future K-12 Science Teachers, 2005	APS April Meeting, Tampa, FL
Arkansas	2005	Undergraduate research project	Stewart, G.	Applying Socratic Method to Physics Education	APS April Meeting, Tampa, FL

Arkansas	2005	Undergraduate research project	Stewart, G.	Quantitative Observations of the Use of Language in an Introductory Science Class to Better Understand Student Learning	APS April Meeting, Tampa, FL
Arkansas	2004	Invited Talk	Stewart, G.	Intro Courses that Entice Majors and Improve Student Performance	APS April Meeting, Denver, CO
Arkansas	2004	Presentation	Beller, C., Fetters, M.	When is Problem Solving Inquiry and When is Inquiry Problem Solving?	Association for Education of Teachers in Science Conference; NARST Annual Meeting, Vancouver, BC; NSTA Regional Convention, Indianapolis, IN
Arkansas	2003	Presentation	Beller, C.	When is Problem Solving Inquiry and When is Inquiry Problem Solving?	Association for Education of Teachers in Science Conference
Arkansas	2002	Invited Presentation	Stewart, G.	The Physics Teacher Education Coalition: a novel program for the preparation of K-12 science teachers	APS April Meeting, Philadelphia PA
Arkansas	2002	Invited Presentation	Stewart, G.	Shaping the Future: Preparing K-12 Science Teachers at the University of Arkansas	APS March Meeting, Albuquerque NM
Arkansas	2002	Presentation	Stewart, G.	Evaluating Student Conceptual Gains: Our Experience in the PhysTEC Project	AAPT Summer Meeting, Boise, ID
Arkansas	2001	Invited Presentation	Stewart, G.	Preparing K-12 Science Teachers at the University of Arkansas	AAPT Summer Meeting, Rochester, NY
Arkansas	2001	Invited Presentation	Stewart, G.	Preparing K-12 Science Teachers at the University of Arkansas	APS April Meeting, Washington, DC
Arkansas	2001	Invited Presentation	Stewart, G.	Introductory Physics for Engineers, Chemists and High School Physics Teachers,	APS March Meeting, Seattle, WA
BSU	2007	Presentation	Grosnick, D.	Recruitment of Physics Majors and Physics Teaching Majors: A Multi-layered Approach at Ball State University	PTEC Conference, Boulder, CO
BSU	2007	Presentation	Gwinn, E.	Producing More and Better Prepared Physics Teachers	AAPT Winter Meeting, Seattle, WA; Indiana Academy of Science, Muncie, IN
BSU	2007	Presentation	Gwinn, E.	Higher INTASC Scores for Inquiry	PTEC Conference, Boulder, CO
BSU	2007	Presentation	Wolter, M.	Teachers In Residence (TIR's): University Supervisors, Cooperating Teachers, and In-Service Mentors	AAPT Winter Meeting, Seattle, WA
BSU	2007	Presentation	Gwinn, E.	Preparing and Mentoring Physics and Physical Science Teachers	NSTA National Conference, St. Louis, MO
BSU	2007	Presentation	Gwinn, E.	Producing More and Better Prepared Middle School Science Teachers	HASTI Convention, Indianapolis IN
BSU	2006	Invited Presentation	Grosnick, D.	PhysTEC at Ball State University: A Team Approach.	APS April Meeting, Dallas, TX
BSU	2006	Poster	Anthony, N.	Indiana's Physics Teacher Production 1996-2005	PTEC Conference, Fayetteville, AR; AAPT Indiana Section meeting, West Lafayette, IN

BSU	2006	Poster	Anthony, N.	Teacher-in-Residence Outreach and Community College Activities	AAPT Summer Meeting, Syracuse, NY
BSU	2006	Presentation	Anthony, N.	The PhysTEC Project	Hoosier Association of Science Teachers Annual Convention, Indianapolis, IN
BSU	2006	Presentation	Hill, R.	Student Preparation and Student Performance in a First-Semester Algebra-Based Physics Course,	Indiana Section Meeting of AAPT, Purdue University
BSU	2006	Presentation	Sayers, J.	Teachers in Residence: High School Teachers on Campus to Enhance Collegiate Science Teaching,	NSTA National Convention, Anaheim, CA
BSU	2006	Presentation	Wolter, M.	Extinction of the Calculator in the Physics Classroom	AAPT Winter Meeting, Anchorage, AK
BSU	2006	Presentation	Wolter, M.	PhysTEC: a Conceptual Mentoring Model	AAPT Winter Meeting, Anchorage, AK
BSU	2006	Presentation	Wolter, M.	Indiana High School Physics ECA Results 2005	Indiana Section Meeting of AAPT, West Lafayette, IN
BSU	2006	Presentation	Anthony, N.	A Teacher-in-Resident Year in Perspective	AAPT Summer Meeting, Syracuse, NY
BSU	2006	Presentation	Wolter, M.	The Indiana Physics Classroom Assessment	AAPT Summer Meeting, Syracuse, NY
BSU	2005	Invited Paper	Wolter, M.	Mentoring in the PhysTEC Project	PTEC Conference, Muncie, IN
BSU	2005	Invited Paper	Wolter, M.	Videostreaming for Classroom Mentoring,	PTEC Conference, Muncie, IN
BSU	2005	Invited Presentation	Wolter, M.	NSF Review of the PhysTEC Project	NSF National Review Board, Arlington, VA
BSU	2005	Poster	Wolter, M.	TIRs belong on University Campuses	AAPT Summer Meeting, Salt Lake City, UT
BSU	2005	Presentation	Grosnick, D.	PhysTEC: A Program to Improve the Science Preparation of Future K-12 Teachers,	College Science Educators of Indiana, Indianapolis, IN
BSU	2005	Presentation	Hamburger, M.	Indiana PEPP	HASTI Convention, Indianapolis, IN
BSU	2005	Presentation	Hill, R.	Implementing the PET Curriculum at Ball State University,	AAPT Winter Meeting, Albuquerque, NM
BSU	2005	Presentation	Robertson, T.H.	Personalized, Web-Based Instructional Materials with LON-CAPA	Indiana Section Meeting of AAPT, Indianapolis IN
BSU	2005	Presentation	Sayers, J.	Teacher-in-Residence: An Innovative Program to Strengthen Science Education,	HASTI Convention, Indianapolis IN
BSU	2005	Presentation	Sayers, J.	Learning From Disaster: The Great Indian Ocean Earthquake and Tsunami,	HASTI Convention, Indianapolis IN
BSU	2005	Presentation	Sayers, J.	High School Physics and Seismic Research	Indiana Section Meeting of AAPT, Indianapolis IN
BSU	2005	Presentation	Sayers, J.	The PhysTEC National Conference at Ball State	Indiana Section Meeting of AAPT, Indianapolis IN
BSU	2005	Presentation	Wolter, M.	Teacher-In-Residence: An Innovative Program to Strengthen Science Education,	HASTI Convention, Indianapolis IN
BSU	2005	Presentation	Wolter, M.	I will be back I am back Oh, my aching back!	HASTI Convention, Indianapolis IN

BSU	2005	Presentation	Wolter, M.	The New Physics Course Assessment	Indiana Section Meeting of AAPT, Indianapolis IN
BSU	2005	Presentation	Wolter, M.	A Camera in Every Physics Classroom	Indiana Section Meeting of AAPT, Indianapolis IN
BSU	2005	Presentation	Wolter, M.	Math Belongs in Physics Classrooms	Indiana Section Meeting of AAPT, Indianapolis IN
BSU	2005	Presentation	Grosnick, D.	Improving Student Performance in First Year Physics Classes	PhysTEC Annual Meeting, Muncie, IN
BSU	2005	Presentation	Grosnick, D.	The Use of Computer-Based Instructional Materials at Ball State University	PhysTEC Annual Meeting, Muncie, IN
BSU	2005	Presentation	Sayers, J.	Induction/Mentoring Plan for the New TIR	PhysTEC Annual Meeting, Muncie, IN
BSU	2005	Presentation	Wolter, M.	TIR's can Retain Physics Teachers	AAPT Summer Meeting, Salth Lake City, UT; PTEC Conference, Muncie, IN
BSU	2005	Presentation	Wolter, M.	TIR's: the Heart of PhysTEC	PhysTEC Annual Meeting, Muncie, IN
BSU	2005	Presentation	Wolter, M.	TIR or ReTIRe?	AAPT Summer Meeting, Salt Lake City, UT
BSU	2005	Presentation	Sayers, J.	Who Are These PhysTEC TIRs and What Do They Do?	AAPT Summer Meeting, Salt Lake City, UT
BSU	2005	Workshop	Sayers, J.	Who Are These PhysTEC TIRs and What Do They Do?	AAPT Summer Meeting, Salt Lake City, UT
BSU	2005	Workshop	Wolter, M.	PhysTEC TIR Training Workshop	AAPT Summer Meeting, Salt Lake City, UT
BSU	2005	Workshop	Wolter, M.	BSU PhysTEC – A Brief Introduction to RTOP	Ball State University
BSU	2005	Workshop	Wolter, M.	PhysTEC Training Workshop	AAPT Summer Meeting, Salt Lake City, UT
BSU	2004	Invited Paper	Wolter, M.	Indiana Intelenet Video-streaming for Novice Physics Teacher Mentoring	AAPT Summer Meeting, Sacramento, CA
BSU	2004	Invited paper	Wolter, M.	Intelenet Video-streaming for Novice Physics Teacher Mentoring	AAPT Summer Meeting, Sacramento, CA
BSU	2004	Invited workshop	Wolter, M.	PhysTEC Induction/Mentoring Model Invited Workshop for training TIR's	AAPT Summer Meeting, Sacramento, CA
BSU	2004	Presentation	Sayers, J.	Seismic Research and High School Physics	AGU, San Francisco CA (December)
BSU	2004	Presentation	Sayers, J.	Earthquake Detection and Analysis using Digital Seismic Technology,	National Science Teachers Association Regional Convention, Indianapolis IN (November)
BSU	2004	Presentation	Sayers, J.	Teacher Leaders in Research Based Science Education: Astronomy Research in the Classroom,	National Science Teachers Association Regional Convention, Indianapolis, IN
BSU	2004	Presentation	Wolter, M.	PhysTEC Teacher-in-Residence Program	AAPT Summer Meeting, Sacramento, CA
BSU	2004	Workshop	Wolter, M.	PhysTEC Induction/Mentoring Model Invited Workshop for training TIR's	AAPT Summer Meeting, Sacramento, CA

BSU	2002	Presentation	Grosnick, D.	PhysTEC: A Program to Improve the Science Preparation of Future K-12 Teachers	CSUI meeting, Argonne National Laboratory
Cal Poly	2004	Presentation	Demsetz, L.	Overhauling Teacher Education: The PhysTEC Program at Cal Poly	AAPT Winter Meeting, Miami Beach, FL
Cal Poly	2004	Presentation	Demsetz, L.	Overhauling Teacher Education: The PhysTEC Program at Cal Poly	AAPT Winter Meeting, Miami Beach, FL
Cal Poly	2004	Presentation	Hoellwarth, C.	Physics Teachers and Teacher Educators: Partners in Change	AAPT Summer Meeting, Sacramento, CA
CalPoly	2007	Presentation	Buck-Moyer, D.	Teachers in Residence: The How, What, Why and When	PTEC Conference, Boulder, CO
CalPoly	2006	Presentation	Buck-Moyer, D.	Teachers in Residence: The How, What, Why and When	PTEC Conference, Fayetteville, AR
CalPoly	2006	Presentation	Stauch, Nancy	What a Teacher in Residence Program Can do For You	AAPT Summer Meeting, Syracuse, NY
CalPoly	2006	Workshop	Buck-Moyer, D.	Teachers On-Campus: Their Impact on Teacher Preparation Programs,	PTEC Conference, Fayetteville, AR
Colorado	2007	Invited talk	Finkelstein, N.	Educating Scientifically: Advances in Physics Education Research	Fermi National Accelerator Lab Colloquium, Batavia, IL
Colorado	2007	Invited talk	Finkelstein, N.	Applying Physics Education Research to the next generation of classroom practice	Emory Univ. Dept. of Physics colloquium, Atlanta, GA
Colorado	2007	Invited talk	Finkelstein, N.	Advances in PER: New Directions and Findings in Physics Education	Physics colloquium, Univ. of Northern Colorado
Colorado	2007	Invited talk	Finkelstein, N.	Student Learning in Physics and the role of representation analogy and context	Institute for Cognitive Studies Colloquium, University of Colorado at Boulder
Colorado	2007	Invited talk	Finkelstein, N.	The Role of Representations and Analogies in Solving Physics Problems	Joint Mtg of the Nat'l Society of Black Physicists and Nat'l Soc. of Hispanic Physicists, Boston MA
Colorado	2007	Invited talk	Finkelstein, N.	A Science of Science Education: studies of transforming undergraduate physics	Department of Physics Colloquium, Rutgers University, New Brunswick, NJ
Colorado	2007	Poster	Otero, V. et al.	Transforming Undergrad Physics: the Colorado Learning Assistant Program	PTEC Conference, Boulder, CO; Nat'l Society for Black Physicists
Colorado	2007	Poster	Pollock, S., Finkelstein, N.	Sustaining Educ. transformation in physics	PTEC Conference, Boulder, CO
Colorado	2007	Poster	Finkelstein, N., Pollock, S.	Keeping a Good Things Going: What does sustaining reforms in physics mean?	AAPT Winter Meeting, Seattle, WA
Colorado	2007	Talk	Finkelstein, N., Pollock, S., Dubson, M.	Addressing Gender Disparity in Introductory Physics Courses: Are existing reforms enough	APS March Meeting, Denver, CO
Colorado	2007	Talk	Pollock, S., Finkelstein, N.	Sustaining Educational Innovation: engaging traditional faculty in transformed practices	APS March Meeting, Denver, CO
Colorado	2007	Talk	Finkelstein, N., Pollock, S.	Replicating of Reforms in a Large-scale Lecture Environment	AAPT Winter Meeting, Seattle, WA

Colorado	2007	Workshop	Otero, V., Iona, S.	Nuts and Bolts of Designing a Pedagogy Course for Learning Assistants	PTEC Conference, Boulder, CO
Colorado	2007	Workshop	Otero, V., Pollock, S.	The University of Colorado Learning Assistant Model	PTEC Conference, Boulder, CO
Colorado	2007	Workshop	Finkelstein, N., Pollock, S, et al.	Attending to More than Content Mastery: assessing student Attitudes and Beliefs in our classrooms	PTEC Conference, Boulder, CO; ASMCUE (American Society of Microbiologists: Conference for Undergraduate Educators), Orlando, FL
Colorado	2006	Colloquium	Pollock, S.	Building on a Base: Applying Physics Education Research to Physics Teaching	CSU physics department, Fort Collins, CO; Kansas Univ. Phys. Dept., Lawrence, KS
Colorado	2006	Invited Presentation	Otero, V.	The Learning Assistant Model for Science Teacher Recruitment and Preparation	APS April Meeting, Dallas, TX
Colorado	2006	Invited talk	Pollock, S., Finkelstein, N.	Sustainable and Scalable Reforms in Physics Education: Research Studies from Colorado PhysTEC	APS March Meeting, Dallas, TX
Colorado	2006	Invited talk	Finkelstein, N.	Colorado PhysTEC: improving undergraduate education and the future of K12 physics teaching	APS Executive Board Meeting and Capital Campaign, College Park, MD
Colorado	2006	Invited talk	Finkelstein, N.	Learning Assistants, Course Transformation, and Discovery Learning in Physics	College of Natural Sciences New Faculty Teaching Conference, University of Texas, Austin, TX
Colorado	2006	Invited talk	Cole, M., Finkelstein, N.	The Design of Out of School Educational Activities	National Academy of Education, Fellows Retreat and Annual Meeting, Boulder CO
Colorado	2006	Invited talk	Finkelstein, N.	Researching Reform: studies of transforming undergraduate physics	Univ. of Arizona Physics Dept. Colloquium, Tucson, AZ
Colorado	2006	Invited talk	Finkelstein, N., Kohl, P., Podolefsky, N.	Representation, Analogy, and Solving Physics Problems	AAPT Summer Meeting, Syracuse, NY
Colorado	2006	Invited talk	Perkins, K., Finkelstein, N.	Assessing Virtual Environments	AAPT Summer Meeting, Syracuse, NY
Colorado	2006	Invited talk	Dancy, M., Finkelstein, N.	Breaking the Paradigm: Working from a Sociopolitical-Critical Perspective	AAPT Summer Meeting, Syracuse, NY
Colorado	2006	Invited talk	Finkelstein, N.	Learning Virtually: examining the potential of computer simulations in learning E/M	Gordon Conference on Phys. Educ. Research, Mount Holyoke, MA
Colorado	2006	Invited talk	Finkelstein, N.	Colorado PhysTEC and The Learning Assistant Model for Transforming Undergraduate Science Education	AAPT Annual Chair's Meeting, Washington, DC
Colorado	2006	Invited talk	Finkelstein, N.	Reconsidering Tools and Contexts of Student Learning	NAS/NSF Invitational Workshop, Reconsidering the Textbook, Washington, DC

Colorado	2006	Invited talk	Finkelstein, N.	New Tools, Traditional Contexts: Examining the potential of computer simulations for undergraduate education	PER Sem. Series, Ohio State University, Columbus, OH
Colorado	2006	Invited talk	Otero, V. et al.	Who is Responsible for Recruiting and Preparing Science Teachers?	Texas State University, San Marcos; AAPT Northwest Regional Meeting, Seattle, WA
Colorado	2006	Invited talk	Otero, V. et al.	The Colorado Learning Assistant Model: A multidisciplinary approach to teacher recruitment and preparation	National Academy of Education Annual Meeting; APS March Meeting, Dallas, TX
Colorado	2006	Poster	Pollock, S.	Reforms in Introductory Physics: Replicating and Sustaining Successful Innovation	PTEC Conference, Fayetteville, AR
Colorado	2006	Poster	Turpen, C., Finkelstein, N., Pollock, S.	Sustaining Reform: A Qualitative Study of Professors Beliefs and Classroom Practices	AAPT Summer Meeting, Syracuse, NY
Colorado	2006	Poster	Pollock, S., Finkelstein, N.	Educational Reforms in Introductory Physics at Colorado: Replicability? Sustainability?	International Society for the Scholarship of Teaching and Learning
Colorado	2006	Poster	Pollock, S.	Replication and Sustainability of Reforms in Introductory Physics at CU	AAPT conference on Achieving Systemic Changes in Physics Teaching at Leading Research Universities, College Park MD
Colorado	2006	Presentation	Finkelstein, N.	Colorado PhysTEC and The Learning Assistant Model for Transforming Undergraduate Science Education	AAPT Annual Chair's Mtg, Washington DC
Colorado	2006	Presentation	Finkelstein, N.	Sustainable and Scalable Reforms in Physics Education: Research studies from Colorado PhysTEC	APS March Meeting, Baltimore, MD
Colorado	2006	Presentation	Finkelstein, N.	Educational Discontinuities: a case study of teaching university level physics in an urban high school	NARST Annual Meeting, San Francisco, CA
Colorado	2006	Presentation	Harlow, D.B.	Talking to Learn Physics and Learning to Talk Physics	NARST Annual Meeting, San Francisco, CA
Colorado	2006	Presentation	Otero, V.	Recruiting Talented Mathematics and Science Majors to Careers in Teaching: A Collaborative Effort for K-16 Educational Reform	NARST Annual Meeting, San Francisco, CA
Colorado	2006	Presentation	Pollock, S.	Assessing multiple research-based transformations in second semester physics	AAPT Summer Meeting, Salt Lake City, UT
Colorado	2006	Presentation	Pollock, S.	Attending to More than Content Mastery: Assessing Student Attitudes and Beliefs in our Classrooms	American Society of Microbiologists Conference for Undergraduate Educators
Colorado	2006	Presentation	Pollock, S.	Replicating Physics Education Reform: How (and why) to keep a good thing going	APS April Meeting, Dallas TX
Colorado	2006	Seminar	Finkelstein, N.	New Tools Traditional Contexts: Examining the potential of computer simulations for undergraduate education	PER Sem. Series, The Ohio State University, Columbus, OH

Colorado	2006	Workshop	Dubson, M.	STEM-Colorado/Colorado PhysTEC In-Service Teacher Workshops Physics Segments	University of Colorado at Boulder
Colorado	2006	Workshop	Finkelstein, N.	Learning About the Physical World Virtually	PTEC Conference, Fayetteville, AR
Colorado	2006	Workshop	Finkelstein, N.	Reconsidering Tools and Contexts of Student Learning NAS/NSF Invitational Workshop Reconsidering the Textbook Washington DC May 2006.	Colorado State University
Colorado	2006	Workshop	Otero, V.	Undergraduate Learning Assistants: A Powerful Way to Improve Student Learning and Recruit Future Teachers	PTEC Conference, Fayetteville, AR
Colorado	2006	Workshop	Pollock, S., Perkins, K.	The role of data in systemic change	International Society for the Scholarship of Teaching and Learning
Colorado	2006	Workshop	Pollock, S.	Reconceptualizing Recitation; Clickers in the Large Classroom; CLASS: Attending to more than Content Mastery	Center for Teaching Excellence, Kansas University, Lawrence, KS
Colorado	2006	Workshop	Otero V. et al.	Undergraduate Learning Assistants: A Powerful Way to Improve Student Learning and Recruit Future Teachers	PTEC Conference, Fayetteville, AR
Colorado	2006	Workshop	Otero, V. et al.	STEM Colorado Workshop for K-12 Teachers, Noyce Fellows, and University Faculty	Univ. of Colorado at Boulder, held annually
Colorado	2006	Workshop	Otero, V.	Physics for Elementary Teachers: A workshop for physics faculty	AAPT Summer Meeting, Syracuse, NY
Colorado	2005	Colloquium	Finkelstein, N.	Thinking Scientifically about Science Education	Colorado School of Mines, Physics Department
Colorado	2005	Colloquium	Finkelstein, N.	Recent advances in Physics Education Research: examining contexts of student learning	Kansas State University,
Colorado	2005	Colloquium	Finkelstein, N.	A Science of Science and Engineering Education	Tufts University School of Engineering
Colorado	2005	Colloquium	Finkelstein, N.	Making as Science of Science Education: Tools Practices and Implications of Physics Education Research	University of Calgary
Colorado	2005	Informal Talk	Finkelstein, N.D.	GK12 and discipline based education research at the university: a quick tour	CU GK12 seminar
Colorado	2005	Informal Talk	Pollock, S.	Tools, Practices, and Implications from Physics Education Research	College of Engineering and Applied Science Faculty teaching Seminar (February)
Colorado	2005	Informal Talk	Pollock, S.	Secondary Implementation of Tutorials	Physics Education Group Seminar, University of Washington (January)
Colorado	2005	Invited Keynote	Finkelstein, N.	Educating Scientifically: tools practices and implications from physics education research (PER)	Canadian American Mexican Physics Conference, San Diego CA Aug 20, 2005
Colorado	2005	Poster	Podolefsky, N.	Johnny Doesn't Read (the Textbook) and He's Getting an A	AAPT Summer Meeting, Salt Lake City, UT

Colorado	2005	Poster	Pollock, S.	Reforms in Introductory Physics Education: Assessing Colorado PhysTEC Goals	PTEC Conference, Muncie IN
Colorado	2005	Presentation	Dubson, M.	Logistics of a Secondary Implementation of the Washington Tutorials	AAPT Summer Meeting, Salt Lake City, UT
Colorado	2005	Presentation	Finkelstein, N.	Learning Virtually: examining the potential of computer simulations in learning E/M	Gordon Conference on Phys. Educ. Rsrch, Mount Holyoke, MA+F217
Colorado	2005	Presentation	Finkelstein, N.	The Colorado PhysTEC Program: a model for increasing the number and preparation of future STEM educators	ISSOTL (Int'l Society for the Scholarship of Teaching and Learning) Conference, Vancouver, BC (October)
Colorado	2005	Presentation	Finkelstein, N.	Colorado PhysTEC: a model of of research-based practices for teacher preparation	Physics Education Research Conference, Salt Lake City UT
Colorado	2005	Presentation	Finkelstein, N.D.	CU Physics Education, Recruiting and Preparing Future Physics Teachers and the Teacher Advisory Group	Forum on Education of the American Physical Society Newsletter
Colorado	2005	Presentation	Geil, K.	Measuring Sophistication of Beliefs About Teaching and Learning	American Education Research Association, San Francisco, CA
Colorado	2005	Presentation	Goldberg, F.	Physics for Elementary Teachers	AAPT Summer Meeting, Salt Lake City, UT
Colorado	2005	Presentation	Harlow, D.B.	Learning to Teach; Teaching to Learn: The STEM-Colorado Experience	AAPT Summer Meeting, Salt Lake City, UT
Colorado	2005	Presentation	Keller, C	Assessing Computer Simulations in Undergraduate Physics Lectures and Laboratories	AAPT Summer Meeting, Salt Lake City, UT
Colorado	2005	Presentation	Keller, C	Assessing Computer Simulations in Undergraduate Physics Lectures and Laboratories	Four Corners Sectional Meeting of the APS, Boulder CO
Colorado	2005	Presentation	Keller, C	Assessing The Effectiveness Of A Computer Simulation In Conjunction with Tutorials In Introductory Physics In Undergraduate Physics Recitations	Physics Education Research Conference, Salt Lake City, UT
Colorado	2005	Presentation	Keller, C.	Assessing the effectiveness of computer simulations in undergraduate physics lectures and laboratories	PTEC Conference, Muncie IN
Colorado	2005	Presentation	Kohl, P.B.	Student Representational Competence in Traditional and Transformed Classroom Environments	AAPT Summer Meeting, Salt Lake City, UT
Colorado	2005	Presentation	Kohl, P.B.	The effects of representational format on student problem-solving performance	Four Corners Sectional Meeting of the APS, Boulder CO
Colorado	2005	Presentation	Kohl, P.B.	Representational Competence and Introductory Physics	Physics Education Research Conference, Salt Lake City UT
Colorado	2005	Presentation	Otero, V.	Elementary Teachers Developing Identities as Science People	AAPT Summer Meeting, Salt Lake City, UT
Colorado	2005	Presentation	Otero, V.	Evolution of Perspectives in PER and the Kinds of Research We Can or Can't Do	Foundations and Frontiers in Physics Education Research

Colorado	2005	Presentation	Otero, V.	Repositioning Ourselves from 'Knowers' to 'Learners:' Formative Assessment Vygotsky and Teacher Development	Physics Education Research Conference, Salt Lake City UT
Colorado	2005	Presentation	Podolefsky, N.	Suzie Doesn't Read (the Textbook) and She's Getting an A	Four Corners Sectional Meeting of the APS, Boulder CO
Colorado	2005	Presentation	Podolefsky, N.	Analogical Scaffolding: A Research Based Model of Learning Abstract Ideas in Physics	Physics Education Research Conference, Salt Lake City UT
Colorado	2005	Presentation	Pollock, S.	Characterizing a Successful Secondary Implementation of Tutorials in Introductory Physics	AAPT Summer Meeting, Salt Lake City, UT
Colorado	2005	Presentation	Pollock, S.	Measuring Impacts: an Assessment of Multiple Research-Based Transformations in Introductory Physics	ISSOTL (Int'l Society for the Scholarship of Teaching and Learning) Conference, Vancouver, BC (October)
Colorado	2005	Presentation	Pollock, S.	Attending to More than Content: assessing student beliefs.	ISSOTL (Int'l Society for the Scholarship of Teaching and Learning) Conference, Vancouver, BC (October)
Colorado	2005	Presentation	Pollock, S.	Replicating Reforms: Characterizing a Successful Secondary Implementation of Tutorials In Introductory Physics	ISSOTL (Int'l Society for the Scholarship of Teaching and Learning) Conference, Vancouver, BC (October)
Colorado	2005	Presentation	Pollock, S.	Transferring Transformations: Learning Gains Student Attitudes and the Impacts of Multiple Instructors in Large Lectures Courses	Physics Education Research Conference, Salt Lake City, UT
Colorado	2005	Presentation	Turpen, C.	Overview and Research Results from the Colorado PhysTEC Program	AAPT Summer Meeting, Salt Lake City, UT
Colorado	2005	Seminar	Finkelstein, N.	Revisiting our Classrooms: tools practices and implications from physics education research (PER)	Princeton University, Princeton NJ
Colorado	2005	Seminar	Pollock, S.	Improving on the Recitation Section: Tutorials in Introductory Physics	University of Colorado at Boulder
Colorado	2005	Workshop	Elby, A.	PhysTEC Attending to Students' Thinking	PTEC Conference, Muncie IN
Colorado	2005	Workshop	Elby, A.	The Importance of Student's Views on Learning Finkelstein	PTEC Conference, Muncie IN
Colorado	2005	Workshop	Finkelstein, N.	Assessing Student Attitudes and Beliefs in our Physics Classrooms	PTEC Conference, Muncie IN
Colorado	2005	Workshop	Pollock, S.	Issues of inclusion privilege & framing: Addressing gender disparity in undergraduate physics	LEAP (NSF-Advance Program), Faculty Workshop, University of Colorado at Boulder
Colorado	2004	Informal Talk	Pollock, S.	Learning about learning: Physics education research in action	University of Colorado Parent's Weekend
Colorado	2004	Invited Presentation	Pollock, S.	Building on a Base: Applying Physics Education Research to Physics Teaching	ISSOTL (Int'l Society for the Scholarship of Teaching and Learning) Conference, Bloomington IN

					(October)
Colorado	2004	Presentation	Finkelstein, N.	Infusing SOTL into Physics: completing the preparation of future faculty	ISSOTL (Int'l Society for the Scholarship of Teaching and Learning) Conference, Bloomington IN (October)
Colorado	2004	Presentation	Finkelstein, N.	STEM Colorado Workshop --- PhysTEC sponsored portions	University of Colorado at Boulder
SPU	2007	Poster	Vermeer, A.	How a Learning Assistant program can transform a physics department into a dynamic learning community	AAPT Summer Meeting, Greensboro, NC
SPU	2007	Presentation	Bogue, T.	Implementation and Results of a Learning Assistant Program	AAPT Winter Meeting, Seattle, WA
SPU	2007	Presentation	Seeley, L.	An Ounce of Prevention: Preparing Teachers to Effectively Use Diagnostic Assessment	PTEC Conference, Boulder, CO
SPU	2007	Presentation	DeWater, L.	A master teacher's role in building a community around the preparation and support of classroom teachers	AAPT Summer Meeting, Greensboro, NC
Towson	2007	Poster	Sandifer, C., Craig, A., Pine, C.	Improving a science practicum course for elementary education majors	PTEC Conference, Boulder, CO
Towson	2007	Poster	Sandifer, C., Lising, L., Renwick, E.	Towson's PhysTEC course improvement project, years 1 and 2: Results and lessons learned	Association for Science Teacher Education Annual Conference, Clearwater, FL
Towson	2007	Workshop	Sandifer, C.	Early Teaching Experiences	PTEC Conference, Boulder, CO
Towson	2006	Presentation	Sandifer, C., Lising, L., Tirrocchi, L.	Our PhysTEC Project: Collaborating with a Resident Teacher to Improve an Elementary Science Field Experience	Association for Education of Teachers in Science Annual Conference, Portland, OR
Towson	2006	Workshop	Sandifer, C., Lising, L., Renwick, E.	Lessons Learned: Improving and Assessing an Elementary Science Field Experience	PTEC Conference, Fayetteville, AR
Towson	2005	Invited Poster Presentation	Lising, L., Tirrocchi, L.	PhysTEC at Towson University: Assessment Development and Results	PTEC Conference, Muncie IN
Towson	2005	Presentation	Lising, L.	Goals & Assessment in the PhysTEC Project: Drawing from Research and Systematic Self-assessment to Promote Inquiry-Oriented Teacher Education	AAPT Summer Meeting, Salt Lake City, UT
Towson	2005	Presentation	Lising, L.	PhysTEC at Towson University: Assessment Development and Results	PTEC Conference, Muncie IN
WMU	2007	Paper	Fetters, M., Hickman, P., Isola, D.	Wanted: Teacher-in-Residence to Work with Physics Department, Education Department, and Local Schools. Skills in Walking on Water Not Required, but Helpful	Association for Science Teacher Education Annual Conference, Clearwater, FL

WMU	2007	Paper	Fetters, M., Hickman, P.	Connecting Master Teachers to Build a Community of Support for Teachers of Physics	AAPT Winter Meeting, Seattle, WA
WMU	2007	Workshop	Isola, D., Freeland, D.	Mentoring Beginning Physics Teachers	NSTA National Conference, St. Louis, MO
WMU	2007	Workshop	Isola, D.	Implementing Student Constructed Investigations in an Inquiry-Based Classroom	Michigan Science Teachers Association Meeting, Grand Rapids, MI
WMU	2007	Workshop	Poel, R., Isola, D.	Recruiting a New Generation of Physics Teachers: The Role of Mentoring in the Learning to Teach Continuum	PTEC Conference, Boulder, CO
WMU	2007	Workshop	Poel, R., Isola, D.	Retaining a New Generation of Physics Teachers: The Role of Physics Departments in Effective Mentoring Programs	PTEC Conference, Boulder, CO
WMU	2006	Contributed paper	Isola, D.	Building a Community of Physics Teachers to Support the Learning to Teach Continuum	AAPT Summer Meeting, Syracuse, NY
WMU	2006	Discussion lead	Isola, D., Buck-moyer D.	The multiple roles a TIR can play in a physics teacher preparation program	PTEC Conference, Fayetteville, AR
WMU	2006	PD Workshop	Isola, D.	What does it mean to be an Inquiry-based Science Teacher?	Allegan Public Schools; Michigan Science Teachers Association Meeting
WMU	2006	Poster	Rosenthal, A. et al.	Development of a Wave Concept Survey	AAPT Summer Meeting, Syracuse, NY
WMU	2006	Presentation	Isola, D., Hickman, P.	Using the RTOP in K-12 Instruction and Teacher Preparation	Michigan AAPT Meeting; NSTA Meeting
WMU	2006	Prseentation	Isola, D.	Common Misconceptions with Newton's Laws of Motion	Southwest Michigan Science Educators Symposium
WMU	2006	Talk	Isola., D.	Current Issues Related to Michigan School Funding	Health Education Student Organization, Kalamazoo, MI
WMU	2004	Presentation	Beller, C.	When is Problem Solving Inquiry and When is Inquiry Problem Solving?	Association for Education of Teachers in Science.
WMU	2004	Presentation	Beller, C.	When is Problem Solving Inquiry and When is Inquiry Problem Solving?	NARST Annual Meeting, Vancouver, BC
WMU	2004	Presentation	Beller, C.	When is Problem Solving Inquiry and When is Inquiry Problem Solving?	National Science Teachers Association Regional Convention, Indianapolis, IN+F251
WMU	2003	Presentation	Beller, C.	When is Problem Solving Inquiry and When is Inquiry Problem Solving?	Association for Education of Teachers in Science.
WMU	2003	Presentation	Freeland, D.	A Teacher in Residence (TIR) Goes Back to College	Michigan Science Teachers Association Meeting, Grand Rapids, MI
WMU	2003	Presentation	Freeland, D.	A TIR Goes Back to College: Experiences & Opportunities	Michigan Section AAPT Spring Meeting, Dearborn, MI
WMU	2003	Presentation	Poel, R.H.	PhysTEC: Recruiting, Preparing, and Empowering Secondary Physics Teachers	Michigan Science Teachers Association Meeting, Grand Rapids, MI

WMU	2003	Presentation	Poel, R.H.	PhysTEC at Western - An Update	Michigan Section AAPT Spring Meeting, Dearborn, MI
WMU	2003	Presentation	Schuster, D.	The Inquiry Structure and Pedagogy of a Physics Course for Teachers	AAPT Summer Meeting, Madison, WI
WMU	2002	Presentation	Poel, R.H.	Pre-service Elementary Teacher Preparation at Western Michigan University	AAPT Winter Meeting, Philadelphia, PA
WMU	2002	Presentation	Rosenthal, A.	PhysTEC at Western Michigan University	Michigan Section AAPT Spring Meeting, Dearborn, MI
Xavier	2002	Invited Talk	Eschenazi, E.	Making a Difference: The Xavier Experience	AAPT Winter Meeting, Philadelphia, PA
Xavier	2002	Presentation	Eschenazi, E.	Making a Difference: The Xavier Experience	Annual Conference, Quality Education for Minority (QEM), Washington, DC
Xavier	2002	Presentation	Hale, R.	Renewing Teacher Education as a University Priority Through Collaboration between Education and Arts and Sciences Faculty	AACTE Annual National Conference, New York
Xavier	2002	Presentation	McCloud, K.	Physics Teacher Education Coalition	Physics Chairs Meeting