

Conference Services

A Piece of the Sustainability Puzzle

NSDL Annual Meeting

November 18, 2009

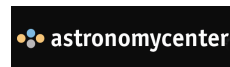
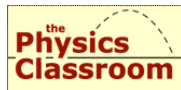
Lyle Barbato, AAPT

Bruce Mason, University of Oklahoma



comPADRE

Physics and Astronomy Education Communities



ComPADRE Model

- Topical Digital Libraries built around existing communities
 - Physics Education Researchers
 - Physics Teacher Education Coalition
 - Undergraduate physics students
- Build around courses
 - Introductory Physics
 - Quantum Mechanics Courses
 - Advanced Laboratories

Welcome to comPADRE resources for physics and astronomy communities

Featured Collection



PER-Central

A collection of information and resources for physics education research.

Did You Know?

PER-Central hosts papers from the 2008 PER Annual Conference. You can view them [here](#).

The ComPADRE Digital Library is

An  Pathway

Sponsored in part by NSF grants DUE-0226129 and DUE-0532798.

The ComPADRE Digital Library is a network of free online resource collections supporting faculty, students, and teachers in Physics and Astronomy Education.

Each of our collections contain materials designed for a specific community. Browse below to find a collection right for you.

For Students

[Nucleus](#)

Community, scholarships, research, & more

[Physics Careers Resource](#)

Career resources & options

[Physics Classroom](#)

A physics tutorial

[Physics to Go](#)

A bi-monthly online magazine

For Teachers

[Physics Front](#)

Resources for K-12 physics teachers

[Physics to Go](#)

Fun physics images & articles

[PSRC](#)

A broad collection of physical science resources

For Faculty - General

[OSP](#)

Open Source Physics

[PER-Central](#)

Physics Education Research

[PSRC](#)

Physical Sciences Resource Center

[PTEC](#)

Physics Teacher Education Coalition

[uCOMP](#)

Computational Physics

For Faculty - Courses

[Advanced Labs](#)

Junior and Senior Labs

[Astronomy Center](#)

Introductory Astronomy Course Resources

[Physics Source](#)

Introductory Physics Course Resources

[Quantum Exchange](#)

Quantum Physics Resources

[Spacetime Emporium](#)

Relativity Resources

Participate!

ComPADRE is powered by your submissions. We encourage you to [login](#) and contribute! [Account registration](#) is free.

Collaborators

ComPADRE is working with multiple groups interested in facilitating physics educators.



Learn more about [our collaborators](#) or explore potential [collaboration opportunities](#).

Sponsors and Partners

ComPADRE is generously supported by the following organizations:



[Learn more](#) about our sponsors and partners!

Featured Community Events



[Physics Classroom Updates!](#)



[Upcoming OSP Events](#)



[Adopt-a-Physicist](#)

ComPADRE Philosophy

- Support community growth
- Provide service

Physics Education Research (PER)

- PER is a relatively young field
- Still in the process of establishing their credibility as a research field
- Pre-2005 Situation
 - Few publication outlets

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PERC 2009

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Welcome to PER-Central

Welcome to PER-Central, a collection of information and resources for physics education research. Here you will find articles, theses and dissertations, research groups, curricular material, and news and events that are of interest to the PER Community. Click here to find out [more about PER-Central](#).

PER News

[Assistant Professor in Natural Sciences and the Learning Sciences](#)

The University of Illinois at Chicago invites applicants for a joint faculty position at the rank of assistant professor in Natural Sciences and the Learning Sciences. The position starts August 16, 2010.

Upcoming PER Events

[Gordon Research Conferences - Physics Education Research](#)

A meeting description is currently being developed by the Conference Chair and will be available by September 1, 2009. Please check back for updates.

[International Conference of the Learning Sciences 2010](#)

Join us for intellectual engagement with colleagues from a range of learning sciences-affiliated disciplines, keynote addresses from Dr. Carl Weiman, Dr. Koeno Gravemeijer and Dr. Pamela Grossman, walks along Lake Michigan, deep dish pizza, and jazz music as a part of the International Conference of the Learning Sciences, June 29-July 2, 2010!

Reviews in Physics Education Research

PER Programs



Take a look at our [map of Physics Education Research \(PER\) programs](#) to browse the different PER groups and their research.

Browse the Educational Materials

Basic Research

- Achievement
- Alternative Conceptions
- Assessment of Students
- Behavior
- Cognition
- Communication
- Learning Theory
- Research Design & Methodology
- Societal Issues
- Student Characteristics
- Student Populations
- Teacher Characteristics
- Teacher Content Knowledge

Applied Research

- Active Learning
- Careers
- Classroom Management
- Course Goals
- Curriculum Development
- Informal Education
- Instructional Material Design
- Pedagogy
- Professional Development
- School Improvement
- Teacher Preparation
- Technology

By Topic:

PER-Central

- Historical
 - We wanted this field - cultivated key players, early adopters
 - NSF DUE Award #0333555
 - PER-CENTRAL: A Digital Library Supporting Physics Education Research
 - <http://www.per-central.org/> opened in 2005
 - Physical Review Special Topics – Physics Education Research journal opened in 2006
- Content
 - Research Papers, Theses, Dissertations
 - Programs and Solo Researchers
 - Announcements
 - PER Reviews for new researchers

PER Conference (PERC)

- Physics Education Research Conference (PERC)
 - Established 1998
 - 2007 Annual Conference

Physics Education Research Conference San Antonio, Texas, August 7-8, 1999

In tandem with the [1999 Summer Meeting of the American Association of Physics Teachers](#).

Planning Committee: [David Hammer](#) (Chair), [Randal Harrington](#), [Paula Heron](#), [Ariel Hodari](#), [Edward \(Joe\) Redish](#).

Saturday

1:30-3:30 Invited session: The Underlying Assumptions of Physics

Chair: Edward (Joe) Redish, Department of Physics, University of Maryland

Speakers:

Jose Mestre, Dept. of Physics and Astronomy, University of Massachusetts Lowell
Designing PER studies, and measuring student outcomes: Time

Lillian McDermott, Physics Department, University of Washington
The empirical basis for physics education research

David Hestenes, Dept of Physics, Arizona State University
Modeling theory as a guide for PER

Andrea diSessa, College of Education, University of California at San Diego
Why the concept of "concept" just can't do it: The importance of

7:00 - 9:00 PM PERC Reception/Poster session, Chapman Center

Everyone listed in the Announcer as giving a talk in a PER context, but if a talk in another session seemed to be on PER, should have received a poster (i.e. copies of talk slides). The idea is to encourage further discussion than is possible during a 15 minute contributed talk.

Physics Education Research Conference 2000: Teacher Education University of Guelph, August 2-3, 2000

In tandem with the [2000 summer meeting of the American Association of Physics Teachers](#).

Planning Committee: [Richard N. Steinberg](#) (Chair), City College of New York
Robert Beichner, Constantinos P. Constantinou, David Hammer, Seth Rosenberg

Participants must register for the AAPT meeting. The registration cost is an additional \$50.

Please scroll down to see links to complete papers. [Click here to see presentation abstracts](#).

Agenda

Wednesday, August 2

Afternoon - AAPT meeting invited session and panel discussion
PER: Teacher education

Preparing teachers as diagnosticians
David Hammer, University of Maryland

Preparing teachers to teach science by inquiry: Insights from research
Peter Shaffer, University of Washington

Reflections on long-term professional development of physics teachers in Israel
Bat-Sheva Eylon, Weizmann Institute of Science

How can the computer facilitate the development of physics knowledge among prospective elementary teachers?
Fred Goldberg, San Diego State University

7:00PM - 9:00PM - Reception/PER contributed poster session

Organizer: Seth Rosenberg, The Ohio State University
Physics education research talks from the general AAPT meeting will be displayed in poster format.

Thursday, August 3

8:00AM - 8:15AM - Welcome and overview

Richard N. Steinberg, City College of New York

8:15AM - 10:15AM - Invited session and panel discussion
Perspectives of pre-college teachers

[Action research on underpinnings for physics](#)
Jeff Hengesbach, Mountain Pointe High School, Arizona
David Hestenes, Arizona State University

Physics Education Research Conference (PERC)

August 7 and August 8, 2002

Boise State University - Boise, ID

[Link to the Schedule](#)

[Link to Poster Abstracts](#)

Description: PERC provides an opportunity for those in the field of physics education research to come together to share research, get feedback, and discuss issues relevant to the community. Members of the field will disseminate their research results at the general AAPT meeting preceding the PERC. During PERC, the focus is on feedback and discussion with others engaged in physics education research.

Registration: The registration form for the summer meeting of AAPT includes a line to register for the PERC. The cost for registration for the PERC should be made in advance, on-site registration is limited.

Poster Session: Every attendee is invited to contribute a poster describing his/her current research. Everyone is limited to the main author. Attendees are encouraged to submit posters based on work in progress in order to get feedback from the community. Posters reflect a talk given during the AAPT meeting.

There will be ample opportunity for viewing and discussion of the posters on Wednesday evening at the poster session/buffet remain up throughout the conference to encourage and facilitate discussion among the community. [Submit](#) titles and abstracts (link to submit). Titles and abstracts will be posted as they become available.

Conference Proceedings: All presenters (including posters) are invited to submit a paper for inclusion in the proceedings. July 22nd, 2002. [Call for Papers](#)



[AAPT Homepage](#)

If you have any additional questions regarding the PERC contact dewey@mac.boisestate.edu (Dewey Dykstra)

This page is maintained by Melissa Dancy medancy@davidson.edu (last updated 7/23/02)

[PERC 2001 Page](#)

Physics Education Research Conference "The Practice of Analysis as a Window on Theory"

August 6-7, 2003

Monona Terrace Convention Center - Madison WI

[Home](#) | [Schedule](#) | [Session Formats](#) | [Presenters](#) | [Abstracts](#) | [Proceedings](#)

The PERC 2003 Home

Description:

The PERC provides an opportunity for those in the field of physics education research to share research, get feedback, and discuss issues relevant to the community. Members of the field will disseminate their research results at the general AAPT meeting preceding the PERC. During the PERC, the focus is on feedback and discussion with others engaged in physics education research.

This year's theme is "The Practice of Analysis as a Window on Theory." Participants will take part in activities, workshops, and discussions about the different modes of analysis currently used in physics education research, especially modes of qualitative research. The emphasis will not be on the *results* of physics education research, but rather on the analytic means by which we arrive at those results. The discussions of analysis will give insight into the theories that are present (explicitly or implicitly) when we carry out our analyses. A variety of [session formats](#) will provide opportunities for multiple perspectives in our discussion of analysis and underlying theory.

Contributed presentations:

Every attendee is invited to contribute a poster or a roundtable discussion describing his/her current research. Everyone is limited to one contributed presentation as the first author. Attendees are encouraged to submit posters based on work in progress in order to get feedback from the community. It is not required that posters reflect a talk given during the AAPT meeting.

Registration:

The registration form for the summer meeting of AAPT includes a line to register for the PERC. The cost for registration is \$65 and includes lunch and

PHYSICS EDUCATION RESEARCH CONFERENCE



August 4-5, 2004
California State University, Sacramento

[About](#) [Schedule](#) [Formats](#) [Search](#) [Invited Sessions](#)

For any questions pertaining to PERC 2004
Please contact Jeff Marx (jmarx@mcdaniel.edu)

[Click here for Full PERC 2004 Program](#)

[Adobe Acrobat PDF Document opens in new window]
If you do not have Adobe Acrobat Reader, download it by clicking the icon below.



About PERC 2004

Description

The Physics Education Research Conference (PERC) provides an opportunity for those in the field to share their research, obtain feedback, explore diverse perspectives and discuss issues relevant to the field. The focus at PERC is on feedback and discussion, rather than on dissemination.

Theme

This year's theme is "*Transfer of Learning*." Participants will explore diverse perspectives on knowledge and learning as it pertains to their research. While all of the presentations and activities of learning *per se*, participants are urged to reflect and discuss how various perspectives on transfer as well as the overarching agenda of the field. A variety of session [formats](#) will provide opportunities

PHYSICS EDUCATION RESEARCH CONFERENCE

Cognitive Science and Physics Education Research



August 1-2, 2007
University of North Carolina - Greensboro
Greensboro, NC

About Description Theme Registration Participation Previous PERCs	Schedule	Formats Invited Talks Targeted Poster Workshops Roundtable Discussion Contributed Posters	Deadlines & Submissions Targeted Poster Sessions Workshops Contributed Posters Roundtable Discussions	Invited Sessions Invited Talks Targeted Poster Session Workshops	Contributed Sessions Contributed Posters Roundtable Discussions	Proceedings Purpose Eligibility Peer Review Manuscript Format Fee FAQ
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About PERC 2007

Description

The Physics Education Research Conference (PERC) provides an opportunity for those in the field of physics education research and allied fields to share their research, obtain feedback, explore diverse perspectives and discuss issues relevant to the community. Various session formats afford the opportunity for maximum interaction. The focus at PERC is on feedback and discussion with others engaged in physics education research, rather than on dissemination.

Venue

The Physics Education Research Conference will be held in the Sheraton Hotel in Greensboro, North Carolina.

Theme

This year's theme is **Cognitive Science and Physics Education Research**. Participants will explore diverse perspectives focused on this theme. While all of the presentations and activities at PERC will not explicitly focus on this theme *per se*, participants are urged to reflect and discuss ways in which their own research can relate to the conference theme. A variety of session formats will provide opportunities for multiple perspectives in our discussion of the conference theme and/or general issues related to methodology of physics education research.

Registration

The [registration form](#) for the 2007 Summer Meeting of the American Association of Physics Teachers (AAPT) includes a line to register for PERC 2007.

Participation

A variety of session formats are available to participants in PERC 2007. These will be announced shortly.

PERC 2008 Organizers

- Does PER-Central provide conference services?
- How do conference services fit into the digital library model?

Why provide conference services?

- Disseminate!
- Integrate!
- Preserve!
- Original, peer-reviewed, high-quality educational content
- Forefront of educational research and reform
- Inclusion allows us to integrate these resources with others in ComPADRE

Types of conference services

- Web presence
- Abstract submission
- Paper submission
- Abstract approval
- Peer review
- Peer review tools
- Pre/Post conference surveys

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Conference

Physics Education Research Conference 2009

PER Topical Group, AAPT Event

July 29, 2009 - July 30, 2009 in Ann Arbor, MI at the University of Michigan

PERC 2009 Theme: Physics Education Research across Paradigms

The 2009 PER Conference has concluded.

Poster presenters may attach an electronic copy of their poster to their conference abstract(s):

[PERC 2009 Poster Upload](#)

We hope you found the 2009 PER Conference valuable and that we will see you again next year.

Sincerely;

The PERC 2009 Organizing Committee

Dr. Tetyana Antimirova, Ryerson University

Dr. Nathaniel Lasry, John Abbott College and Center for Study on Learning & Performance

Dr. Marina Milner-Bolotin, Ryerson University

PERC 2009 Overview

The uniqueness of Physics Education Research (PER) partly resides in the diverse traditions and frameworks adopted to study learning: cognitive constructs, social and cultural dynamics and increasingly neural processes. The theme of PERC 2009 in Ann Arbor, MI July 29-30 is "Physics Education Research across

PERC 2009
[Conference Abstracts](#)

[Invited Talks](#)

[Invited Speakers](#)

[Session Formats](#)

[Conference Schedule](#)

[Conference Program](#)

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[PERC Proceedings](#)

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PERC 2009 Abstract Browse

[Abstract Search](#) | [Manage Your Listings](#) | [Review Page](#)

The abstracts listed below were presented at the PERC 2009 Conference. You may use the column headers to sort the abstract list, or [search the abstracts here](#).

Name	Primary Contact	Abstract Type
A Research-based Approach to Transforming Upper-division Electricity & Magnetism I	Steven Pollock	Targeted Poster
A Study of Undergraduate and Graduate Student Conceptions of Teaching	Benjamin T. Spike	Contributed Poster
Active Learning of Physics by Modeling	Nilufer Didis	Contributed Poster
Addressing Barriers to Conceptual Understanding in IE Physics Courses	Vincent Coletta	Contributed Poster
Addressing student difficulties considering entropy and heat engines	Trevor I. Smith	Contributed Poster
Addressing the Shortcomings of a Textbook with a Supplemental Wiki	David E. Pritchard	Contributed Poster
An Assessment Design Rubric for a Reformed Introductory Physics Curriculum	Wendi Wampler	Contributed Poster
Analysis of Former Learning Assistants' Views on Teaching and Learning	Kara E. Gray	Contributed Poster
Applying Knowledge in New Contexts: A Comparison of Pre- and Post-Instruction Students	Dyan L. McBride	Contributed Poster
Are Students' Responses to Surveys and Their Behaviors Consistent?	Umporn Wutchana	Contributed Poster
Assessment of Student Problem Solving Processes	Jennifer Docktor	Targeted Poster
Bridging Cognitive and Neural Aspects of	Michael Posner	Invited Talk

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[» home](#) » [PER-Central Review Forms](#) » [Details for PERC 2009 Proceedings Referee's Form](#)

 **Review Form View: PERC 2009 Proceedings Referee's Form**

[\(Link\)](#)

Instructions: Please review the linked paper using the form below. Please include written comments to the author, and recommend whether the article should be accepted for publication.

Before beginning your review, please familiarize yourself with the **guidelines for referees** ([PDF](#), [Word](#), [HTML](#)).

You may also attach electronic files (.pdf, .rtf, .doc, .docx) to your review if you have extensive comments or wish to write notes on the paper itself (and then scan it). Uploaded files are made available to the author unedited, so please strip personally identifying information from the document's meta-properties if you wish to remain anonymous.

Your review should be completed by Sunday, August 2, 2009. If you cannot meet this deadline, please send an email to [Mel Sabella](#).

Interest/Value to the PER Community

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
1 (Weak)	2	3	4	5 (Strong)

Content Novelty

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
1 (Weak)	2	3	4	5 (Strong)

Strength of Research

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
1 (Weak)	2	3	4	5 (Strong)

Conclusions

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PERC 2009 Peer Review Management

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» [PERC Referee Groups](#)

» [Overall Review Management](#)

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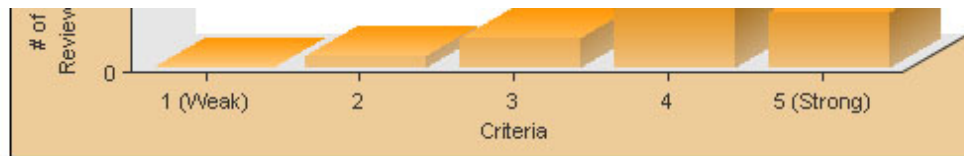
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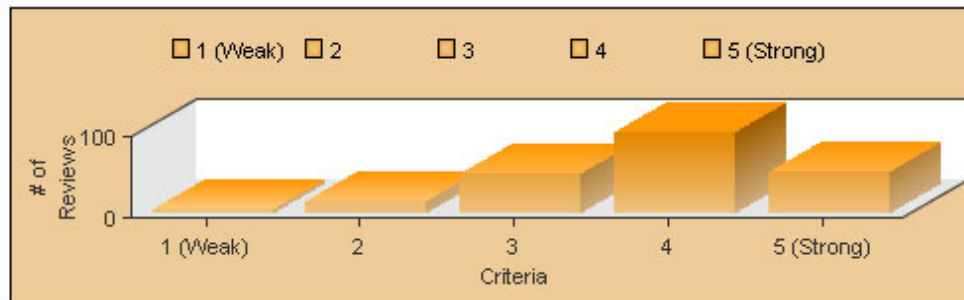
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Row	Primary Contact	Abstract	Paper	Peer Review	Results	Publication	Final Paper	Consent Form	Author Response
1			Contributed Poster	Assignees	Do not Publish Publish with... Publish with... Review Stats	Publish	Final Paper 1	Consent Form	Yes
2			Contributed Poster	Assignees	Publish with... Publish with... Publish Review Stats	Publish	Final Paper 2	Consent Form	Yes
3			Contributed Poster	Assignees	Publish with... Publish Publish Review Stats	Publish	Final Paper 3	Consent Form	
4			Contributed Poster	Assignees	Publish with... Publish with... Publish Review Stats	Publish	Final Paper 4	Consent Form	
5			Targeted Poster	Assignees	Publish with... Publish with... Publish Review Stats	Publish	Final Paper 5	Consent Form	
6			Contributed Poster	Assignees	Do not Publish Publish with... Publish Review Stats	Publish	Final Paper 6	Consent Form	
7			Contributed Poster	Assignees	Publish with... Publish with... Publish with... Review Stats	Publish	Final Paper 7	Consent Form	Yes
8			Contributed Poster	Assignees	Do not Publish	Publish	Final Paper	Consent Form	Yes



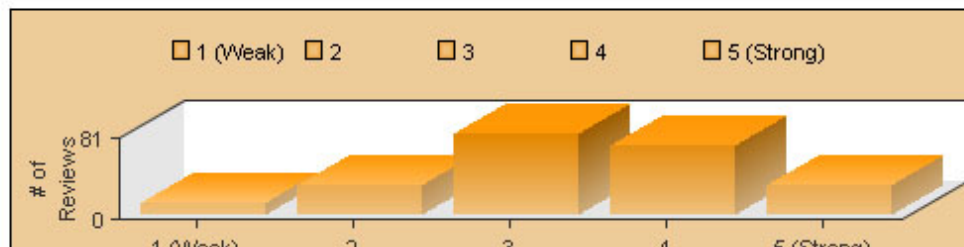
Content Novelty

5 Selections: 1 (*Weak*)
17 Selections: 2
51 Selections: 3
100 Selections: 4
53 Selections: 5 (*Strong*)



Strength of Research

13 Selections: 1 (*Weak*)
30 Selections: 2
81 Selections: 3
71 Selections: 4
31 Selections: 5 (*Strong*)



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PER-Central Survey

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Survey Terms

This evaluation survey of "PER Across Paradigms" was designed by the 2009 PER Conference Organizing Committee.

All responses are voluntary and completely anonymous.

If you would like to attach your name to your responses, please answer Question 11. The PER Conference Organizers will respect your anonymity in any reporting of survey results.

« [Return to the home page](#) if you do not wish to complete the survey

2009 Physics Education Research Conference Evaluation Form

Survey Instructions

Thank you for participating in the 2009 PER Conference.

For the rating scales used below, 0 represents "terrible" and 5 represents "excellent." Please skip questions relating to sessions you did not attend.

1. Please comment on how the conference, as a whole, addressed core PER issues.

2. Please comment on how well you felt the 2009 PERC was organized.

What did you like?

Issues

- Competition
- A lot of work!
 - Deadlines and special cases
 - People-herding

Results

- Increased visibility in the community
- Increased website usage
- Original content
 - Schedule
 - Posters
 - Papers



Did I mention we get the papers?

- Content is king – content brings use
 - Be it media or research
- But we are not content creators
 - We are content managers, distributors, organizers

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[Examining the Effectiveness of Clickers on Promoting Learning by Tracking the Evolution of Student Responses](#)

written by Erica Watkins and Mel Sabella

Personal Response Systems or clickers have been used for a number of years to help create active learning environments in the lecture classroom. Researchers have shown that the use of clickers stimulate student-student and student-lecturer interaction. In addition, students value the use of clickers and feel that these devices contribute to their understanding. Even though clickers have been used for quite some time, there are relatively few research studies focusing on how student knowledge is enhanced through the use of clickers. To contribute to this body of research, we compared student responses on exam questions to similar or identical clicker questions that were presented during lecture. The analysis of the responses to both clicker and exam questions show how individual student knowledge evolves during instruction. Although there is evidence of improvement during lecture, many students were unable to respond correctly when the questions were posed on the exam, despite the similarity in the questions.

Physics Education Research Conference 2008

Part of the PER Conference series
Edmonton, Canada: July 23-24, 2008
Volume 1064, Pages 223-226

<http://www.per-central.org/document/ServeFile.cfm?ID=8107&DocID=73...>

Subjects	ADS Supplements	Resource Types
Education - Applied Research - Active Learning - Technology General Physics - Physics Education Research	- Abstract - Table of Contents - Also-Read Articles - Find Similar Articles	- Reference Material = Research study

PER-Central Type	Intended Users	Ratings
- Bibliography	- Researchers	☆☆☆☆☆ Want to rate this material? Login here!

Item Details **Related (1)** **Cite**

Format:	application/pdf
Mirror:	http://dx.doi.org/10.1063/1.3021260
Access Rights:	<i>Free access</i> and <i>Available for purchase</i>
Restriction:	A hard copy of the PERC 2008 proceedings is available for purchase from the AIP.
DOI:	10.1063/1.3021260
PACS:	01.40.Fk 01.50.-I 01.40.G- 02.60.Pn 02.40.Ft 01.40.gb 01.40.Ha

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Related Materials

Is Part Of
[2008 Physics Education Research Conference Proceedings](#)

[See details...](#)

Similar Materials

[Measuring student learning with item response theory](#)
[Examining Student Responses for Meaningful Understanding in the Context of... Relationship between students' conceptual knowledge and study strategies-part...](#)

[More...](#)

Fostered Relationships

- PER Topical Group
- IRB Store
- PER Jobs
- Wiki

Sustainability

- Paid conference
- Development costs vs. sustainable continuing costs
- Marketing

Sustainability II

- The PERTG wants to support us!
- And they've offered to pay us for other services...



The Physics Education Research Topical Group (PERTG)

[About](#) [Upcoming Events](#) [Resources](#) [Affiliates](#) [PERTG Proposals](#)

» [PER Topical Group](#)

US - AAPT Physics Education Research Topical Group (PERTG)

The Physics Education Research Topical Group (PERTG) is a Topical Group within the American Association of Physics Teachers, formed for those with a special interest in research on the teaching and learning of physics.

The Physics Education Research Leadership and Organizing Council (PERLOC) is elected by PERTG to serve as the representative body for community decision-making.

Click on links in the sidebar at right to find more information about PERLOC, upcoming events, and more.

PERTG Membership within AAPT

For AAPT members to be part of the PERTG, they may self-identify and pay an annual fee of \$25 (\$10 for students). The fee is paid at the time of renewing AAPT membership and will be deposited in a special account to fund PERLOC activities/functions. Click [here](#) to apply.

Funds will be used for:

- costs related to the annual Physics Education Research Conference (PERC), such as funds for invited speakers from outside PER and publication costs for the PERC Proceedings,

Recent Forum Posts

[\[All\]](#)

On Oct 27, John R. Thompson posted [Conference scholarships available](#)

On Oct 27, Rachel E. Scherr posted [Meeting minutes, October 27, 2009](#)

On Oct 8, Henderson posted [Comments on Proposed Bylaws](#)

Program Members

John R. Thompson
Jose Mestre
Michael Wittmann

Scaling our Service

- 2009 Advanced Laboratories Topical Conference
- 2008-2010 PTEC Annual Conference
- Additional opportunities

Impact

- Educational impact?
 - Citations
 - Developed Curricula
- Public and other educational researchers have ready access to latest PER

But, should digital libraries do this?

- Does this support our mandate of supporting educational communities, or just sustainability?
 - Service
 - Stewardship
 - Manage and preserve digital information

Credits and Thanks

- NSF, NSDL
 - DUE-0226129
 - DUE-0532798
- Bruce Mason, Warren Hein
- AAPT, APS, AIP, AAS
- PER-Central
- PERTG
- ComPADRE Collaborators

