

## **AAPT Programs & Conferences Tools**

Hello, Eleanor Sayre!

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<b>Abstracts Submitte</b>	d (# 7)			
avoid this in our teat Plato were worth the imitated." The auth and rule of Holy Life an issue still import try to establish ana	enue D01 If find an author noting that learners aching, we should imitate the methor reading, where the singular dexteror is George Herbert, the work is "Ae", and the activity at hand is cated tant to contemporary reformers of Follogues between ecclesiastical educators advice for reform into terms supports.	od of questioning used by So- erity of Socrates in this kind r A Priest to the Temple: the Co chizing the faithful. I am fasci Physics education, using the s ational practices in 1630 Engl	crates: "Some dialog may be observed and buntry Parson, His Ch nated that Herbert ac same words. In this b and and contempora	ues in I naracter, ddresses orief talk I
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10	AAPI PaC TOOIS
Su	bmit
	et Title: Andragogy or Pedagogy When Modeling Learning Experiences for Adult Learners?
-	Type: Contributed
	C. Dianne Phillips
	est Arkansas Community College
	lege Drive ille, AR 72712
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	r Order: GD02
Andrago Manage specifica EMPACT 'passive are hist process apply sp of techr  Chan	regy is the "art and science" of teaching adults. Is it necessary to distinguish between Pedagogy and an entry of the modeling learning experiences specifically for the adult learner? The EMPACTS (Educationally deprojects Advancing Curriculum, Technology and Service) project-based learning model was developed ally for the unique needs of the adult learner. Courses that employ the EMPACTS delivery system, use the Sproject to enhance the learning of course content as adult learners transition from a socialized learning experience to one of "active," self-directed ownership in the process. Pedagogical frameworks orically designed for K-12 learners who need structure, direction and greater facilitation in the learning Adult learners learn best if they are allowed to use their own knowledge and life experiences as they becific course content to real world problems. The EMPACTS model encourages collaboration and the use cology as adult learners design and complete semester long projects.  **Ge Session**  O Yes**
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	ct Title: Characteristics of Well-Propagated Instructional Strategies and Materials Across STEM Disciplines
-	Type: Contributed
	Raina M. Khatri
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Speaker Order: GD03

While the STEM education community has developed many new pedagogies and materials, not many have been successful in reaching a wide audience. This study is part of a larger effort to understand how new pedagogies and materials can become widely used, by learning more about those that have become well-propagated. Experts across STEM disciplines were asked to identify well-propagated instructional strategies and materials in their disciplines. We created a categorization scheme for the strategies and materials and gathered evidence to evaluate the extent to which the innovations they suggested had propagated. This presentation will discuss the general characteristics of well-propagated instructional strategies and materials. Most have been funded by multiple grants over time and emphasize changes in approaches to instruction, not changes to content. Further, their propagation strategies were adapted to the resources and degree of collaboration with colleagues required by the instructional strategy.

**Footnotes:** Supported, in part, by NSF#1122446.

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Abstract Title: From Idea to Implementation: Initiating Studio-style Reforms in Academic Departments

**Paper Type:** Contributed **Author:** Alexis V. Knaub Western Michigan University 1903 West Michigan Avenue Kalamazoo, MI 49008 312-810-0181 (p) avknaub@gmail.com

Speaker Order: GD04

Successful pedagogical change in an institution is often built on a foundation of prior efforts and can have a non-linear trajectory. North Carolina State University's Student-Centered Active Learning Environment with Upside-down Pedagogies (SCALE-UP) is a studio-style instructional approach that modifies the classroom structure and pedagogy to promote interaction. There can be challenges when adopting this radical reform, which reconceptualizes the role of teacher and student in a novel learning environment. Using case studies of SCALE-UP secondary implementers, we explore the beginnings of SCALE-UP within departments in a variety of institutions and STEM disciplines. We examine the context of these departments and institutions prior to SCALE-UP, the key players who drive the change, and the events and strategies that lead to implementation. This talk notes commonalities and differences that occurred in successful SCALE-UP implementations. Does successful educational change follow a strategic plan or does serendipity play a significant role?

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<b>Abstract Title:</b> Further Investigations into the Efferage Type: Contributed	ectiveness of Collaborative Group Exams
Author: Joss Ives	
University of British Columbia	
6224 Agricultural Road	
Vancouver, BC V6T 1Z4 Canada	
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Speaker Order: GD07	
known as two-stage exams or collaborative group individually. Once all the students have handed in of three or four and take the same exam again wit Different versions of the group exam feature differ Questions isomorphic to the exam questions were	gned to measure the effectiveness of an instructional strategy exams. This exam format first has the students take the exam their individual exams, they organize into collaborative groups the only a single copy of the exam being given to each group. The subsets of the questions from the individual exam. administered on the end-of-course diagnostic and comparisons, between the students that saw a given question on the group
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Abstract Title: Negotiating Positionings within Sm	nall Groups in Introductory Physics
Paper Type: Contributed	
Author: May H. Lee	
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219-794-4559 (p)	
leemay1@msu.edu  Speaker Order: GD06	
Speaker Order. OD00	

To provide opportunities for students to engage meaningfully with core disciplinary concepts and practices in physics, an introductory calculus-based mechanics course was designed so that students collaborated in small

groups to solve complex story problems. Our research focuses on how collaboration between group members affects their opportunities to learn and do physics. Qualitative methods were used to analyze video-recorded small group discussions over a three-week period. The dynamics of the social interactions between group members were analyzed through positioning theory (Davies & Harré, 1990). Preliminary findings indicate that group members seemed to position themselves as capable of doing physics. Additionally, each group member was positioned by his or her peers and/or instructor as either more or less knowledgeable in doing physics. As a work in progress, we report on how students negotiate these positionings from multiple sources.

Channe Cassian	
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Abstract Title: Updating Physics Labs for First-Year Medical Students Paper Type: Contributed Author: Stephen W. Peterson University of Cape Town	_
Department of Physics	
Rondebosch, Western Cape 7701 South Africa	
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steve.peterson@uct.ac.za  Speaker Order: GD05	
The medical degree at the University of Cape Town is a six-year undergraduate degree, including a one semester physics course (PHY1025) during the first year. In previous years students have often expressed negative sentiments toward the laboratory component of the course – in which a fairly rigorous approach to measurement had been adopted – viewing it as disconnected from the theory or simply as irrelevant to their medical training. This has led to revising the laboratory curriculum, focusing on two goals (1) improving the connection between lab and lectures and (2) highlighting skills that are relevant for a future as a medical doctor. As part of the evaluation of the new labs (being piloted for the first time) we are using E-CLASS to measure student attitude at the start (February) and the end of the course (May). We briefly describe the new laboratory curriculum and then present our results.	
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