2009 Summer Meetings Assigned Abstracts

Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
		Favorite Activities in the TYC Classroom		Posters	TYC	MI League Room 4		
Berenson	Rhoda	Favorite Activities in the TYC Classroom	Pinhole Clarifiers	Poster	TYC01	MI League Room 4		
Faleski	Michael	Favorite Activities in the TYC Classroom	Color as a Tool in the College Classroom	Poster	TYC02	MI League Room 4		
Hieggelke	Curtis	Favorite Activities in the TYC Classroom	Newtonian Tasks Inspired by Physics Education Research (nTIPERs) Project	Poster	TYC03	MI League Room 4		
Hogan	William	Favorite Activities in the TYC Classroom	Changing How I Cover Lenz's Law	Poster	TYC04	MI League Room 4		
O'Kuma	Thomas	Favorite Activities in the TYC Classroom	Motion Diagrams in the Introductory Physics Class	Poster	TYC05	MI League Room 4		
O'Kuma	Thomas	Favorite Activities in the TYC Classroom	Having Fun with Spiral Physics	Poster	TYC06	MI League Room 4		
Schultz	Scott	Favorite Activities in the TYC Classroom	Exploring How Waves Behave at Boundaries	Poster	TYC07	MI League Room 4		
Weaver	David	Favorite Activities in the TYC Classroom	Failing the Test	Poster	TYC08	MI League Room 4		
Weaver	David	Favorite Activities in the TYC Classroom	Project-Based Physics Potpourri	Poster	TYC09	MI League Room 4		
Weaver	David	Favorite Activities in the TYC Classroom	Does this Compute?	Poster	TYC10	MI League Room 4		
Zinger	Jessica	Favorite Activities in the TYC Classroom	Reaching Out to the Public: UM Society of Physics Students	Poster	TYC11	MI League Room 4		

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
		SPS Undergraduate Research and Outreach (Posters)		Posters	SUN	Dana Atrium	7/26/2009	6:00 PM
Feldt	Kristal	SPS Undergraduate Research and Outreach (Posters)	Applying Physics in an Artist's World	Poster	SUN01	Dana Atrium	7/26/2009	6:00 PM
Gu	Zhiyi	SPS Undergraduate Research and Outreach (Posters)	Theories and Applications of Soft Matter	Contributed	SUN02	Dana Atrium	7/26/2009	6:00 PM
Liang	Le	SPS Undergraduate Research and Outreach (Posters)	Symmetry in Physics	Poster	SUN03	Dana Atrium	7/26/2009	6:00 PM
Liu	Yan	SPS Undergraduate Research and Outreach (Posters)	Solitons in Optical Fibers	Poster	SUN04	Dana Atrium	7/26/2009	6:00 PM
Merck	Christopher	SPS Undergraduate Research and Outreach (Posters)	Classifi□cation of Physical Models	Poster	SUN05	Dana Atrium	7/26/2009	6:00 PM
Mufan	Cai	SPS Undergraduate Research and Outreach (Posters)	Physics in Shenzhou Manned Space Flight	Poster	SUN06	Dana Atrium	7/26/2009	6:00 PM
Qu	Ziqin	SPS Undergraduate Research and Outreach (Posters)	MHD Power GenerationFantasy or Solution?	Contributed	SUN07	Dana Atrium	7/26/2009	6:00 PM
Yang	Heng	SPS Undergraduate Research and Outreach (Posters)	Relevant Discussion about Polar Light	Poster	SUN08	Dana Atrium	7/26/2009	6:00 PM
Zhang	Kaixuan	SPS Undergraduate Research and Outreach (Posters)	Gravity AnomalyNever take gravity for granted	Contributed	SUN09	Dana Atrium	7/26/2009	6:00 PM
Zhou	Peipei	SPS Undergraduate Research and Outreach (Posters)	Iris Recognition	Contributed	SUN10	Dana Atrium	7/26/2009	6:00 PM
Zhou	Jiaji	SPS Undergraduate Research and Outreach (Posters)	Graphene-Material For the Future	Contributed	SUN11	Dana Atrium	7/26/2009	6:00 PM
ZHAI	Chenxi	SPS Undergraduate Research and Outreach (Posters)	Analysis of Quantum Cryptography and BB84 Protocol	Contributed	SUN12	Dana Atrium	7/26/2009	6:00 PM
Williams	Paul	Panel Discussion on TYC Issues		Panel	AA	CC Little 1528	7/27/2009	8:30 AM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
		Crackerbarrel for Area Committee Chairs		Ckrbrl	AAA	CC Little 1518	7/27/2009	7:00 AM
		What Graduate Schools Expect from Undergraduates		Panel	AB	Chemistry 1200	7/27/2009	8:30 AM
		Giving More than One Test: A Closer Look at Physics Students' Understanding and Reasoning		Inv	AC	Chemistry 1210	7/27/2009	8:30 AM
Thornton	Ronald	Giving More than One Test: A Closer Look at Physics Students Understanding and Reasoning	Using Real-Time Data Display to Improve Conceptual Understanding and Spatial Visualization Ability	Invited	AC01	Chemistry 1210	7/27/2009	8:30 AM
Heckler	Andrew	Giving More than One Test: A Closer Look at Physics Students Understanding and Reasoning	What Happens to Student Performance Between the Pre and Post-Test?	Invited	AC02	Chemistry 1210	7/27/2009	9:00 AM
Heron	Paula	Giving More than One Test: A Closer Look at Physics Students Understanding and Reasoning	Giving More than One Test: A Way to Improve Instruction	Invited	AC03	Chemistry 1210	7/27/2009	9:30 AM
Вао	Lei	Giving More than One Test: A Closer Look at Physics Students Understanding and Reasoning	Assessment of Learning and Reasoning	Invited	AC04	Chemistry 1210	7/27/2009	10:00 AM
		International Programs and Cooperation		Inv/Con	AD	Chemistry 1300	7/27/2009	8:30 AM
Wu	NianLe	International Programs and Cooperation	Physics Education in Chinese Universities	Invited	AD01	Chemistry 1300	7/27/2009	8:30 AM
Yun	Ying	International Programs and Cooperation	Developing Self-Learning Ability in a Bilingual College Physics Course	Invited	AD02	Chemistry 1300	7/27/2009	9:00 AM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
Takai	Helio	International Programs and Cooperation	Science Without Borders	Invited	AD03	Chemistry 1300	7/27/2009	9:30 AM
Cecire	Kenneth	International Programs and Cooperation	Masterclasses in Physics An International Collaboration	Contributed	AD04	Chemistry 1300	7/27/2009	10:00 AM
Aubrecht	Gordon	International Programs and Cooperation	The InterAmerican Conference in Medellin	Contributed	AD05	Chemistry 1300	7/27/2009	10:10 AM
		High-Performance Computing on the Desktop		Inv	AE	Chemistry 1400	7/27/2009	8:30 AM
Thiruvathukal	George	High-Performance Computing on the Desktop	Desktop Supercomputing: The Good, the Bad, and the Ugly	Invited	AE01	Chemistry 1400	7/27/2009	8:30 AM
Decyk	Viktor	High-Performance Computing on the Desktop	High Performance Plasma Simulation on Desktop Systems	Invited	AE02	Chemistry 1400	7/27/2009	9:00 AM
Joiner	David	High-Performance Computing on the Desktop	High Performance Computing in the Physics Classroom: Results from SC08	Invited	AE03	Chemistry 1400	7/27/2009	9:30 AM
		Teaching Physics in Urban Schools		Inv/Con	AF	Chemistry 1640	7/27/2009	9:30 AM
Denisova	Katya	Teaching Physics in Urban Schools	Teaching Physics in Urban setting: Example of Baltimore City Public Schools	Invited	AF01	Chemistry 1640	7/27/2009	9:30 AM
Livanis	Olga	Teaching Physics in Urban Schools	Three Physics Classrooms, Three New York City Schools, Three Learning Experiences	Invited	AF02	Chemistry 1640	7/27/2009	10:00 AM
		Physics Education Research Tools: Techniques and Broad Implications		Con	AG	Dana 1040	7/27/2009	9:30 AM
Springuel	R. Padraic	Physics Education Research Tools: Techniques and Broad Implications	Applying Cluster Analysis to Standardized Tests: Analyzing the FMCE	Contributed	AG01	Dana 1040	7/27/2009	9:30 AM
Wutchana	Umporn	Physics Education Research Tools: Techniques and Broad Implications	Students' Epistemology Assessed by Surveys and their Learning: Are They Consistent?	Contributed	AG02	Dana 1040	7/27/2009	9:40 AM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
Thacker	Beth	Physics Education Research Tools: Techniques and Broad Implications	A Standardized Test to Assess Introductory Physics Instructional Methods	Contributed	AG03	Dana 1040	7/27/2009	9:50 AM
Chini	Jacquelyn	Physics Education Research Tools: Techniques and Broad Implications	Interview Room vs. Classroom: How Do the Data Compare?*	Contributed	AG04	Dana 1040	7/27/2009	10:00 AM
Carmichael	Adrian	Physics Education Research Tools: Techniques and Broad Implications	Effectiveness of Hands-on Experiments vs. Computer Simulations in Mechanics*	Contributed	AG05	Dana 1040	7/27/2009	10:10 AM
Briggs	Derek	Physics Education Research Tools: Techniques and Broad Implications	Instructional Innovations in Physics and their Effects on Student Learning	Contributed	AG06	Dana 1040	7/27/2009	10:20 AM
		Innovations in Introductory Laboratories		Con	АН	Dennison 170	7/27/2009	8:30 AM
Bercovich-Guel	Clarisa	Innovations in Introductory Laboratories	Tablet PCs as Digital Lab Notebooks	Contributed	AH01	Dennison 170	7/27/2009	8:30 AM
Blue	Jennifer	Innovations in Introductory Laboratories	Evidence of Critical Thinking in Undergraduate Laboratory Reports	Contributed	AH02	Dennison 170	7/27/2009	8:40 AM
Mallmann	A. James	Innovations in Introductory Laboratories	Experimental Determination of Properties of the Sun Using Kitchen Equipment	Contributed	AH03	Dennison 170	7/27/2009	8:50 AM
Van Hook	Stephen	Innovations in Introductory Laboratories	Mythbusting in the University Introductory Physics Lab	Contributed	AH04	Dennison 170	7/27/2009	9:00 AM
Ludwigsen	Daniel	Innovations in Introductory Laboratories	Crash Safety in the Introductory Physics Lab	Contributed	AH05	Dennison 170	7/27/2009	9:10 AM
Worland	Randy	Innovations in Introductory Laboratories	Chladni Patterns on Drums: a "Physics of Music" Laboratory Exercise	Contributed	AH06	Dennison 170	7/27/2009	9:20 AM
Kutzner	Mickey	Innovations in Introductory Laboratories	Investigating the Otto Cycle with an Adiabatic Gas Laws Apparatus	Contributed	AH07	Dennison 170	7/27/2009	9:30 AM
Bassichis	William	Innovations in Introductory Laboratories	Using Springs to Promote Understanding	Contributed	AH08	Dennison 170	7/27/2009	9:40 AM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
Weber	Bruce	Innovations in Introductory Laboratories	Rolling to a Value for the Acceleration of Gravity	Contributed	AH09	Dennison 170	7/27/2009	9:50 AM
Mathelitsch	Leopold	Innovations in Introductory Laboratories	Potato Cannons	Contributed	AH10	Dennison 170	7/27/2009	10:00 AM
Galli	John	Innovations in Introductory Laboratories	The Cat Twist Revisited	Contributed	AH11	Dennison 170	7/27/2009	10:10 AM
Riaz	Shahzad	Innovations in Introductory Laboratories	The Synchronization Issue One of the Major Student Complaints, and Ways of Fixing It	Contributed	AH12	Dennison 170	7/27/2009	10:20 AM
		Astronomy at the University of Michigan		Inv	Al	Dennison 182	7/27/2009	9:30 AM
Bergin	Edwin	Astronomy at the University of Michigan	The Ultimate Origin of Water on the Earth	Invited	Al01	Dennison 182	7/27/2009	9:30 AM
Saltzberg	David	A Physicist Scattering on Hollywood	A Physicist Scattering on Hollywood	Other	AJ	Dana 1040	7/27/2009	8:30 AM
		Reforming the Introductory Physics Course for Life Science Majors		Panel	ВА	CC Little 1528	7/27/2009	1:30 PM
De Leone	Charles	Reforming the Introductory Physics Course for Life Science Majors	BIO 2010 and Physics in the Undergraduate Education of Biologists	Panel	BA01	CC Little 1528	7/27/2009	1:30 PM
Hilborn	Robert	Reforming the Introductory Physics Course for Life Science Majors	The 2009 AAMC-HHMI Report and Its Implications for Introductory Physics	Panel	BA02	CC Little 1528	7/27/2009	1:50 PM
Lindenfeld	Peter	Reforming the Introductory Physics Course for Life Science Majors	Less Stuff More Thought	Panel	BA03	CC Little 1528	7/27/2009	2:10 PM
McKay	Timothy	Reforming the Introductory Physics Course for Life Science Majors	Physics for the Life Sciences at the University of Michigan	Panel	BA04	CC Little 1528	7/27/2009	2:30 PM
Lockett	Phil	Reforming the Introductory Physics Course for Life Science Majors	Introductory Physics for Life Science Students	Con/Poster	BA05	CC Little 1528	7/27/2009	2:50 PM

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Last Name	First Name	Sessname	Title	Туре	Code	Room	Date	Time
		Physics and Society Education - Crackerbarrel		Ckrbrl	ВАА	CC Little 1512	7/27/2009	12:00 PM
		KSTF Teaching Fellowships: Preparing and Retaining Outstanding High School Science Teachers		Inv/Con	ВВ	Chemistry 1200	7/27/2009	1:30 PM
Gillespie	Nicole	KSTF Teaching Fellowships: Preparing and Retaining Outstanding High School Science Teachers	KSTF Teaching Fellowships: Preparing and Retaining Outstanding High School Science Teachers	Invited	BB01	Chemistry 1200	7/27/2009	1:30 PM
Randall	Matthew	KSTF Teaching Fellowships: Preparing and Retaining Outstanding High School Science Teachers	America's Next Top Science Rockers: Project -Based Learning	Contributed	BB02	Chemistry 1200	7/27/2009	2:00 PM
Gasper	Jeanine	KSTF Teaching Fellowships: Preparing and Retaining Outstanding High School Science Teachers	Engineering at the High School level KSTF Support for Innovative Teaching	Contributed	BB03	Chemistry 1200	7/27/2009	2:10 PM
Fancher	Kristen	KSTF Teaching Fellowships: Preparing and Retaining Outstanding High School Science Teachers	KSTF and IceCube: A collaboration Between Teachers and Scientists	Contributed	BB04	Chemistry 1200	7/27/2009	2:20 PM
Echols	Rosalind	KSTF Teaching Fellowships: Preparing and Retaining Outstanding High School Science Teachers	The Evolution of a KSTF Fellow's Teaching Model	Contributed	BB05	Chemistry 1200	7/27/2009	2:30 PM
Buehler	Ben	KSTF Teaching Fellowships: Preparing and Retaining Outstanding High School Science Teachers	Trading Labs: Long-Distance Relationships Stressing the Nature of Science	Contributed	BB06	Chemistry 1200	7/27/2009	2:40 PM

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Last Name	First Name	Sessname	Title	Туре	Code	Room	Date	Time
McCamish	Erin	KSTF Teaching Fellowships: Preparing and Retaining Outstanding High School Science Teachers	KSTF Supported Mentoring	Contributed	BB07	Chemistry 1200	7/27/2009	2:50 PM
Buskirk	Heather	KSTF Teaching Fellowships: Preparing and Retaining Outstanding High School Science Teachers	KSTF Supported Mentoring: A Mentor's Perspective	Contributed	BB08	Chemistry 1200	7/27/2009	3:00 PM
Telesford	Maurice	KSTF Teaching Fellowships: Preparing and Retaining Outstanding High School Science Teachers	Regional KSTF Meetings as an Effective Way to Support Teachers	Contributed	BB09	Chemistry 1200	7/27/2009	3:10 PM
		Web Resources for Teaching Astronomy		Ckrbrl	BBB	CC Little 1505	7/27/2009	12:00 PM
		Professional Concerns of PER Faculty		Ckrbrl	BBC	CC Little 1518	7/27/2009	12:00 PM
		Issues in Student Problem Solving		Con	ВС	Chemistry 1210	7/27/2009	1:30 PM
Mateycik	Fran	Issues in Student Problem Solving	Students' Performance on Similarity Rating and Case Reusability Tasks*	Contributed	BC01	Chemistry 1210	7/27/2009	1:30 PM
Nguyen	Dong-Hai	Issues in Student Problem Solving	Individual Teaching/Learning Interviews to Facilitate Student Problem Solving*	Contributed	BC02	Chemistry 1210	7/27/2009	1:40 PM
Aryal	Bijaya	Issues in Student Problem Solving	Influence of Hands-on Activity on Problem Solving	Contributed	BC03	Chemistry 1210	7/27/2009	1:50 PM
Smith	Adam	Issues in Student Problem Solving	Learning from Worked Examples: What Do Students Actually Read?	Contributed	BC04	Chemistry 1210	7/27/2009	2:00 PM
Mason	Andrew	Issues in Student Problem Solving	Do Advanced Students Learn from their Mistakes Without Explicit Intervention?	Contributed	BC05	Chemistry 1210	7/27/2009	2:10 PM
Singh	Chandralekha	Issues in Student Problem Solving	Revisiting Categorization	Contributed	BC06	Chemistry 1210	7/27/2009	2:20 PM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
Bennhold	Cornelius	Issues in Student Problem Solving	ACCESS A Problem-Solving Protocol Based on Cognitive Processes	Contributed	BC07	Chemistry 1210	7/27/2009	2:30 PM
Ding	Lin	Issues in Student Problem Solving	Why Don't We Bring into Play Diverse Problems?	Contributed	BC08	Chemistry 1210	7/27/2009	2:40 PM
Shekoyan	Vazgen	Issues in Student Problem Solving	Analyzing Students' Epistemic Cognition Through Introductory Physics Multiple-Possibility Problem Solving	Contributed	BC09	Chemistry 1210	7/27/2009	2:50 PM
Docktor	Jennifer	Issues in Student Problem Solving	Assessment of Student Problem- Solving Processes	Contributed	BC10	Chemistry 1210	7/27/2009	3:00 PM
Marx	Jeffrey	Issues in Student Problem Solving	Development of an Assessment of Textbook Problem-Solving Ability	Contributed	BC11	Chemistry 1210	7/27/2009	3:10 PM
Teodorescu	Raluca	Issues in Student Problem Solving	Using Didactic Structures to Achieve Attitudinal Gains in Introductory Physics	Contributed	BC12	Chemistry 1210	7/27/2009	3:20 PM
		Getting Published	,,,	Inv/Con	BD	Chemistry 1300	7/27/2009	1:30 PM
Mamola	Karl	Getting Published	Writing for The Physics Teacher	Invited	BD01	Chemistry 1300	7/27/2009	1:30 PM
Leif	Todd	Getting Published	Sharing Knowledge Is like Sharing Toys, Everybody Is Responsible	Invited	BD02	Chemistry 1300	7/27/2009	1:50 PM
Desbien	Dwain	Getting Published	My Journey into Publishing in TPT, Not that Bad	Invited	BD03	Chemistry 1300	7/27/2009	2:10 PM
Faleski	Michael	Getting Published	TYC Faculty Do Have Something to Say in AJP!	Invited	BD04	Chemistry 1300	7/27/2009	2:30 PM
O'Kuma	Thomas	Getting Published	TYC Writing Session at Greensboro Summer Meeting	Contributed	BD05	Chemistry 1300	7/27/2009	2:50 PM
O'Connor	Jerry	Getting Published	Publishing Team Work	Contributed	BD06	Chemistry 1300	7/27/2009	3:00 PM
		Data Mining to Study Learning		Invited	BE	Chemistry 1400	7/27/2009	1:30 PM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
Pritchard	David	Data Mining to Study Learning	Copying Online Homework and Declining Student Performance	Invited	BE01	Chemistry 1400	7/27/2009	1:30 PM
Lee	Young-Jin	Data Mining to Study Learning	Modeling How Pre/Post Gain Depends on Prior Knowledge	Invited	BE02	Chemistry 1400	7/27/2009	2:00 PM
Shih	Benjamin	Data Mining to Study Learning	Modeling Student Bottom-Out Hint Use with Logged Response Times	Invited	BE03	Chemistry 1400	7/27/2009	2:30 PM
Dedic	Helena	Data Mining to Study Learning	Mining Data from the FCI	Invited	BE04	Chemistry 1400	7/27/2009	3:00 PM
		PIRA Session: Demonstrations & Misconceptions		Invited	BF	Chemistry 1640	7/27/2009	1:30 PM
Berg	Richard	PIRA Session: Demonstrations & Misconceptions	Misconceptions in Common Lecture Demonstrations	Invited	BF01	Chemistry 1640	7/27/2009	1:30 PM
Reardon	James	PIRA Session: Demonstrations & Misconceptions	Physics DemonstrationsA Refuge from Misconceptions	Invited	BF02	Chemistry 1640	7/27/2009	2:00 PM
Hopkinson	Peter	PIRA Session: Demonstrations & Misconceptions	Keep It Simple Students Low- Tech Demos to Enhance Understanding	Invited	BF03	Chemistry 1640	7/27/2009	2:30 PM
		Energy and Environment		Inv/Con	BG	Dana 1040	7/27/2009	1:30 PM
Welch	John	Energy and Environment	Experiences from the Summer Energy Academy at Cabrillo College	Invited	BG01	Dana 1040	7/27/2009	1:30 PM
Hobson	Art	Energy and Environment	Teaching Global Warming, and Some Personal Reflections	Invited	BG02	Dana 1040	7/27/2009	2:00 PM
Ross	Marc	Energy and Environment	Auto Fuel Economy, Size, and Safety	Invited	BG03	Dana 1040	7/27/2009	2:30 PM
Chow	Celia	Energy and Environment	Physics and Environmental ConcernsPart III Geothermal Energy (Conti.)	Contributed	BG04	Dana 1040	7/27/2009	3:00 PM
Johnson	Andy	Energy and Environment	Liquid Fuel Trends and their Implications for the U.S. and World Economies	Contributed	BG05	Dana 1040	7/27/2009	3:10 PM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
Bamberger	Yael	Energy and Environment	Teaching Energy Through Design: A Strategy to Engage Minority Students	Contributed	BG06	Dana 1040	7/27/2009	3:20 PM
		Cutting-Edge Research at Michigan State University		Invited	ВН	Dennison 170	7/27/2009	1:30 PM
Lapidus	Lisa	Cutting-Edge Research at Michigan State University	The Physics of Protein Folding	Invited	BH01	Dennison 170	7/27/2009	1:30 PM
Tollefson	Kirsten	Cutting-Edge Research at Michigan State University	Exploring the Universe Using Particle Accelerators	Invited	BH02	Dennison 170	7/27/2009	2:00 PM
Nunes	Filomena	Cutting-Edge Research at Michigan State University	Where Did Matter Come From?	Invited	BH03	Dennison 170	7/27/2009	2:30 PM
Donahue	Megan	Cutting-Edge Research at Michigan State University	Astrophysics and Cosmology at Michigan State University	Invited	BH04	Dennison 170	7/27/2009	3:00 PM
		How to Prepare Undergraduates for Graduate School		Inv/Con	ВІ	Dennison 182	7/27/2009	1:30 PM
Holbrow	Charles	How to Prepare Undergraduates for Graduate School	A Larger View: Physics Before Graduate School	Invited	BI01	Dennison 182	7/27/2009	1:30 PM
Heller	Kenneth	How to Prepare Undergraduates for Graduate School	Preparing Students for Graduate School: Beyond Coursework and Research Experiences.	Invited	BI02	Dennison 182	7/27/2009	2:00 PM
Yennello	Sherry	How to Prepare Undergraduates for Graduate School	How Research Experiences Prepare Students for Graduate School	Invited	BI03	Dennison 182	7/27/2009	2:30 PM
Hintz	Eric	How to Prepare Undergraduates for Graduate School	Teaching Critical Research Skills to Undergraduate Astronomy Majors	Contributed	BI04	Dennison 182	7/27/2009	3:00 PM
Chasteen	Stephanie	How to Prepare Undergraduates for Graduate School	Thinking Like a Physicist: Transforming Upper-Division Electricity & Magnetism	Contributed	BI05	Dennison 182	7/27/2009	3:10 PM
Camp	Paul	How to Prepare Undergraduates for Graduate School	Development of Technical Reading Skills: A Research Proposal	Contributed	BI06	Dennison 182	7/27/2009	3:20 PM
		Distance Learning		Contributed	CA	Chemistry 1200	7/27/2009	4:30 PM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
Rademacher	Ricardo	Distance Learning	Best Practices for Teaching Current Pure-Online Physics Courses	Contributed	CA01	Chemistry 1200	7/27/2009	4:30 PM
Meyer	Michael	Distance Learning	Clickers and Problem Solutions at an Asynchronous Distance	Contributed	CA02	Chemistry 1200	7/27/2009	4:40 PM
Ting	Cheng	Distance Learning	Interactive Online Demonstration in a Blackboard Learning Environment	Contributed	CA03	Chemistry 1200	7/27/2009	4:50 PM
Al-Shamali	Farook	Distance Learning	Low Cost Thermodynamics Home- Lab Experiments	Contributed	CA04	Chemistry 1200	7/27/2009	5:00 PM
Markes	Mark	Distance Learning	Teaching a Laboratory-Intensive Online Introductory Electronics Course*	Contributed	CA05	Chemistry 1200	7/27/2009	5:10 PM
Huang	Shan	Distance Learning	The Team Experience of Online Astronomy Lab Development	Contributed	CA06	Chemistry 1200	7/27/2009	5:20 PM
Steiner	Robert	Distance Learning	Online Teacher Professional Development in the Physical Sciences	Contributed	CA07	Chemistry 1200	7/27/2009	5:30 PM
		Research Regarding Student Interactions and Collaborations		Contributed	СВ	Chemistry 1210	7/27/2009	4:30 PM
Lasry	Nathaniel	Research Regarding Student Interactions and Collaborations	When Talking Is Better than Keeping Quiet	Contributed	CB01	Chemistry 1210	7/27/2009	4:30 PM
Turpen	Chandra	Research Regarding Student Interactions and Collaborations	Student Perceptions and Instructional Choices in Educational Reform: Studies of Peer Instruction	Contributed	CB02	Chemistry 1210	7/27/2009	4:40 PM
Li	Sissi	Research Regarding Student Interactions and Collaborations	Studying the Effectiveness of Lecture Hall Design on Group Interactions	Contributed	CB03	Chemistry 1210	7/27/2009	4:50 PM
Babiuc	Maria	IResearch Regarding Student Interactions and Collaborations	The Effect on Student Performance of Three Physics Teaching Methods	Contributed	CB04	Chemistry 1210	7/27/2009	5:00 PM
Cochran	Geraldine	Research Regarding Student Interactions and Collaborations	Promoting Effective Collaboration in the College Physics Classroom	Contributed	CB05	Chemistry 1210	7/27/2009	5:10 PM
Santonacita	Joseph	Research Regarding Student Interactions and Collaborations	A Link Between Physics Experiences and Future Learning*	Contributed	CB06	Chemistry 1210	7/27/2009	5:20 PM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
		Particle Physics in High Schools		Inv/Con	CC	Chemistry 1300	7/27/2009	4:30 PM
Fetsko	Michael	Particle Physics in High Schools	Particle Physics in the Classroom in Practical	Invited	CC01	Chemistry 1300	7/27/2009	4:30 PM
Jordan	Thomas	Particle Physics in High Schools	e-Labs, Gateways to Data from Professional Experiments	Invited	CC02	Chemistry 1300	7/27/2009	5:00 PM
Eliaser	Shira	Particle Physics in High Schools	Quantum Electrodynamics, Cartoon Style	Contributed	CC03	Chemistry 1300	7/27/2009	5:10 PM
McShane	Thomas	Particle Physics in High Schools	Correlations Among Extended Air Showers Using the CROP Network	Contributed	CC04	Chemistry 1300	7/27/2009	5:20 PM
Wadness	Michael	Particle Physics in High Schools	Particle Physics Masterclass: Possibility for Teaching the Nature of Science?	Contributed	CC05	Chemistry 1300	7/27/2009	5:30 PM
Trapp	Dave	Particle Physics in High Schools	virtual QuarkNet for more distant teachers	Contributed	CC06	Chemistry 1300	7/27/2009	5:40 PM
		Recruiting and Retaining Women in Physics: What We Knew Then, What We Know Now.		Invited	CD	Chemistry 1400	7/27/2009	4:30 PM
McCullough	Laura	Recruiting and Retaining Women in Physics: What We Knew Then, What We Know Now.	The Current Status of Women in Physics	Invited	CD01	Chemistry 1400	7/27/2009	4:30 PM
Hodapp	Theodore	Recruiting and Retaining Women in Physics: What We Knew Then, What We Know Now.	APS Gender Equity Conference: Promoting Gender Equity in University Environments	Invited	CD02	Chemistry 1400	7/27/2009	5:00 PM
Hazari	Zahra	Recruiting and Retaining Women in Physics: What We Knew Then, What We Know Now.	Connecting High School Physics Experiences and Physics Identity Development: A Gender Study	Invited	CD03	Chemistry 1400	7/27/2009	5:30 PM
		DMAPT - Advice for the New Physics Teacher		Other	CF	Dana 1040	7/27/2009	4:30 PM

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Last Name	First Name	Sessname	Title	Туре	Code	Room	Date	Time
		Carnival Knowledge		Invited	CG	Dennison 170	7/27/2009	4:30 PM
Easter	Gene	Carnival Knowledge	Carnival Knowledge: The Flying Bernoulli Brother's Stupendous Sideshow of Science	Invited	CG01	Dennison 170	7/27/2009	4:30 PM
Reitz	Bill	Carnival Knowledge	The Flying Bernoulli Brothers Present Carnival Knowledge Part 1	Invited	CG02	Dennison 170	7/27/2009	5:00 PM
		Innovations in Teaching Astronomy		Inv/Con	СН	Dennison 182	7/27/2009	4:30 PM
Rogers	Michael	Innovations in Teaching Astronomy	Teaching General Education Astronomy Using the SCALE- UP/Studio Physics models	Invited	CH01	Dennison 182	7/27/2009	4:30 PM
Gelderman	Richard	Innovations in Teaching Astronomy	A Spectrum Is Worth a Thousand Pictures	Contributed	CH02	Dennison 182	7/27/2009	5:00 PM
Ford	Mike	Innovations in Teaching Astronomy	Solving the Mysteries in the Heart of a Supernova Explosion	Contributed	CH03	Dennison 182	7/27/2009	5:10 PM
Kaldon	Philip	Innovations in Teaching Astronomy	It's A Matter Of Scale: Seeing Neil Armstrong's Footprints	Contributed	CH04	Dennison 182	7/27/2009	5:20 PM
Greenspoon	Stanley	Innovations in Teaching Astronomy	Teaching and Learning Physics Through Astronomy	Contributed	CH05	Dennison 182	7/27/2009	5:30 PM
Gawiser	Eric	Innovations in Teaching Astronomy	Graduate Cosmology as Professional Training in Written and Oral Presentation	Contributed	CH06	Dennison 182	7/27/2009	5:40 PM
		Physics Bazaar		Posters	CI	CC Little 1528	7/27/2009	4:30 PM
Culbertson	Robert	Physics Bazaar	Music in Motion: Activities Using Musical Instrument Design to Teach Freshman Science and Mathematics	Poster	CI01	CC Little 1528	7/27/2009	4:30 PM
Zeng	Liang	Physics Bazaar	New Ways of Improvising for Demonstrating Two Physics Concepts	Poster	CI02	CC Little 1528	7/27/2009	4:30 PM
		Teaching Physics Around the World: Part II		Inv/Con	HE	Chemistry 1640	7/27/2009	12:45 PM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
Mechtenberg	Abigail	Teaching Physics Around the World: Part II	Electricity Production Designs in Uganda with Physics of Energy Curriculum	Contributed	HE01	Chemistry 1640	7/27/2009	12:45 PM
Pendrill	Ann-Marie	Teaching Physics Around the World: Part II	Earth Rotating Around Its Axis How Do We Know?	Contributed	HE02	Chemistry 1640	7/27/2009	12:55 PM
Fernandes	Sonia	Teaching Physics Around the World: Part II	High School Thermodynamics	Contributed	HE03	Chemistry 1640	7/27/2009	1:05 PM
Pundak	David	Teaching Physics Around the World: Part II	Understanding Physics(1) – Translation PER Ideas	Contributed	HE04	Chemistry 1640	7/27/2009	1:15 PM
Haiyun	HU	Teaching Physics Around the World: Part II	Multiple Models and Methods for Physics Education in BIT	Contributed	HE05	Chemistry 1640	7/27/2009	1:25 PM
Ponnambalam	Michael	Teaching Physics Around the World: Part II	Has Science Teaching Lost Its Soul?	Contributed	HE06	Chemistry 1640	7/27/2009	1:35 PM
Narayanan	Suresh	Teaching Physics Around the World: Part II	Lack of Scientific Thinking Among Youth	Contributed	HE07	Chemistry 1640	7/27/2009	1:45 PM
Jakubowski	Rafal	Teaching Physics Around the World: Part II	Learning microgravity by the Project Method gives students more latitude, improves achievement and develops skills	Contributed	HE11	Chemistry 1640	7/27/2009	2:25 PM
Goree	John	APS/DPP Symposium on Plasma Physics		Plenary	P1	Mendelssohn	7/27/2009	10:30 AM
Forest	Cary	APS/DPP Symposium on Plasma Physics	Turbulent Liquid Metal Dynamo Experiments	Plenary	P1-01	Mendelssohn	7/27/2009	10:30 AM
Goree	John	APS/DPP Symposium on Plasma Physics	The Electrical Charge and Motion of Objects Inserted into a Plasma	Plenary	P1-02	Mendelssohn	7/27/2009	10:30 AM
Eisenkraft	Arthur		Physics for All: From Special Needs to Olympiads	Invited	P2	Mendelssohn	7/27/2009	3:30 PM
		Millikan Award		Plenary	P2	Mendelssohn	7/27/2009	3:30 PM
		AIP Gemant Award for Science Writing		Plenary	P3	Mendelssohn	7/27/2009	7:30 PM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
		Introductory Labs, Upper Division Labs, Pre-High School, Teacher Training, Implementing & Evaluating Curriculum, PER Methods, & Assessments, Conceptual Understanding & Reasoning		Poster	PST1	Dana Atrium	7/27/2009	8:30 PM
Yi	In Seung	Introductory Labs	Comparison of Three Type of MBL Experiments for Newton's Second Law	Poster	PST1A-01	Dana Atrium	7/27/2009	8:30 PM
Schober	Mark	Introductory Labs	Rocket Launch Project to Investigate Impulse and Momentum	Poster	PST1A-02	Dana Atrium	7/27/2009	8:30 PM
George	Elizabeth	Introductory Labs	Investigating Tangential Acceleration in the Laboratory with a Rotation Wheel	Poster	PST1A-03	Dana Atrium	7/27/2009	8:30 PM
Robinson	Paul	Introductory Labs	The Flying PigQuantifying Centripetal Force	Poster	PST1A-04	Dana Atrium	7/27/2009	8:30 PM
Kutzner	Mickey	Introductory Labs	A Static Equilibrium Laboratory	Poster	PST1A-05	Dana Atrium	7/27/2009	8:30 PM
Kutzner	Mickey	Introductory Labs	Experimental Verification of Boyle's Law and Adiabatic Gas Law	Poster	PST1A-06	Dana Atrium	7/27/2009	8:30 PM
Beverly	Nancy	Introductory Labs	Differentiating the Sources of the Standing Wave Frequency Components in Students' Own Speech	Poster	PST1A-07	Dana Atrium	7/27/2009	8:30 PM
Hallman	Susan	Introductory Labs	Under Pressure: A Learn-and- Demonstrate Lab	Poster	PST1A-08	Dana Atrium	7/27/2009	8:30 PM
Morse	Robert	Introductory Labs	Electrostatics with the Fun Fly Stick?	Poster	PST1A-09	Dana Atrium	7/27/2009	8:30 PM
Murphy	Sytil	Introductory Labs	An Apparatus for Investigating the Magnetic Field due to a Wire*	Poster	PST1A-10	Dana Atrium	7/27/2009	8:30 PM
Kim	So Yeon	Introductory Labs	Analysis of a Magnet Falling Through a Coil Connected into a Simple Electric Circuit	Poster	PST1A-11	Dana Atrium	7/27/2009	8:30 PM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
Masters	Mark	Introductory Labs	Using Reverse Game Play to Engage Students in Formulating and Testing Hypotheses	Poster	PST1A-12	Dana Atrium	7/27/2009	8:30 PM
Cox	Anne	Introductory Labs	Computational Modeling in Intro Physics Labs: Tracker and EJS	Poster	PST1A-13	Dana Atrium	7/27/2009	8:30 PM
Scwalm	William	Introductory Labs	Conversion to Problem-Solving Laboratories* University of North Dakota	Poster	PST1A-14	Dana Atrium	7/27/2009	8:30 PM
Allen	Patricia	Introductory Labs	Update on Appalachian State?s Redesigned Introductory Physics Lab Project	Poster	PST1A-15	Dana Atrium	7/27/2009	8:30 PM
Masters	Mark	Upper Division Labs	Writing and Peer Review for Advanced Laboratories: A Proposal	Poster	PST1B-01	Dana Atrium	7/27/2009	8:30 PM
Masters	Mark	Upper Division Labs	Simple Construction of a Spherical Air Bearing	Poster	PST1B-02	Dana Atrium	7/27/2009	8:30 PM
Kostov	Svilen	Upper Division Labs	The Gyroscope as a Modern Intermediate Physics Lab	Poster	PST1B-03	Dana Atrium	7/27/2009	8:30 PM
Kamela	Martin	Upper Division Labs	Intermediate Mechanics Labs	Poster	PST1B-04	Dana Atrium	7/27/2009	8:30 PM
Grove	Timothy	Upper Division Labs	Construction of an Inexpensive Copper Heat-Pipe Oven	Poster	PST1B-05	Dana Atrium	7/27/2009	8:30 PM
Grove	Timothy	Upper Division Labs	A Student-Assembled Spectrograph Using a Simple Webcam	Poster	PST1B-06	Dana Atrium	7/27/2009	8:30 PM
Grove	Timothy	Upper Division Labs	Modifying the Optics Laboratory for Greater Conceptual Understanding	Poster	PST1B-07	Dana Atrium	7/27/2009	8:30 PM
Grove	Timothy	Upper Division Labs	Increasing Student Independence and Insight in the Intermediate Physics Laboratory	Poster	PST1B-08	Dana Atrium	7/27/2009	8:30 PM
Kim	DaeHwan	Upper Division Labs	Modified Scanning Monochromator for Undergraduate Laboratory	Poster	PST1B-09	Dana Atrium	7/27/2009	8:30 PM
Rebello	N. Sanjay	Upper Division Labs	Integrating Experimentation and Instrumentation in Upper-Division Physics*	Poster	PST1B-10	Dana Atrium	7/27/2009	8:30 PM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
Swaminathan	Sudha	Upper Division Labs	Physics in Art: An Interdisciplinary Lab Course	Poster	PST1B-11	Dana Atrium	7/27/2009	8:30 PM
Schwarz	Cindy	Pre-High School	Atomville: A Multimedia Project for Children and their Parents	Poster	PST1C-01	Dana Atrium	7/27/2009	8:30 PM
Allen	Leith	Pre-High School	Excited States of Elementary Students Engaged in Interactive Physics Activities	Poster	PST1C-02	Dana Atrium	7/27/2009	8:30 PM
Bartley	Jessica	Pre-High School	The Potential of Informal Science Education for Development of Individuals and Institutions	Poster	PST1C-03	Dana Atrium	7/27/2009	8:30 PM
Mayhew	Laurel	Pre-High School	Informal Science Teaching Experience Informs Formal Science Teaching Training	Poster	PST1C-04	Dana Atrium	7/27/2009	8:30 PM
White Brahmia	Suzanne	Pre-High School	PUM: Developing Reasoning Skills in the First Physics Course	Poster	PST1C-05	Dana Atrium	7/27/2009	8:30 PM
Aubrecht	Gordon	Pre-High School	IMPACT 2 Progress Report	Poster	PST1C-06	Dana Atrium	7/27/2009	8:30 PM
Lee	JungSook	Pre-High School	Elementary School Students' Recognition of Electric Circuit Elements in Untypical Situations	Poster	PST1C-07	Dana Atrium	7/27/2009	8:30 PM
Endorf	Robert	Teacher Training	Study of a Physics by Inquiry Program for K-12 Teachers*	Poster	PST1D-01	Dana Atrium	7/27/2009	8:30 PM
Smith	Todd	Teacher Training	Physics by Inquiry for Education Majors in a Learning-Living Community	Poster	PST1D-02	Dana Atrium	7/27/2009	8:30 PM
Kramer	Laird	Teacher Training	Impact of PhysTEC-Supported Introductory Physics Lab Reform	Poster	PST1D-03	Dana Atrium	7/27/2009	8:30 PM
Cecire	Kenneth	Teacher Training	A Slice of the PIE for Elementary School	Poster	PST1D-04	Dana Atrium	7/27/2009	8:30 PM
Close	Hunter	Teacher Training	Teaching the Joy of Learning About Student Thinking in Physics	Poster	PST1D-05	Dana Atrium	7/27/2009	8:30 PM
Didis	Nilufer	Teacher Training	Physics Teacher Training: An Approach Combines Theory and Practice	Poster	PST1D-06	Dana Atrium	7/27/2009	8:30 PM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
Nivalainen	Ville	Teacher Training	Student Teachers' Understanding on Objectives of Laboratory Work	Poster	PST1D-07	Dana Atrium	7/27/2009	8:30 PM
DeWater	Lezlie	Teacher Training	Elementary Teachers' Analysis of Energy Transformations in their Own Units	Poster	PST1D-08	Dana Atrium	7/27/2009	8:30 PM
Close	Eleanor	Teacher Training	Teacher Characteristics and Student Learning in Secondary Science: Research Review	Poster	PST1D-09	Dana Atrium	7/27/2009	8:30 PM
Huang	Zhixin	Teacher Training	Teacher Education in China	Poster	PST1D-10	Dana Atrium	7/27/2009	8:30 PM
Zollman	Dean	Teacher Training	Pathway 24/7 Online Pedagogical Assistance for Teachers of Physics*	Poster	PST1D-11	Dana Atrium	7/27/2009	8:30 PM
MacIsaac	Dan	Teacher Training	Online Graduate Course in Physics Education Scholarship for HS Teachers	Poster	PST1D-12	Dana Atrium	7/27/2009	8:30 PM
Churukian	Alice	Teacher Training	Preparing High School Math and Science Teachers at UNC-CH*	Poster	PST1D-13	Dana Atrium	7/27/2009	8:30 PM
Gomez	Luanna	Teacher Training	Computation-Based vs. Concept- Based Standardized Test Questions: High School Physics Teachers' Perceptions	Poster	PST1D-14	Dana Atrium	7/27/2009	8:30 PM
O'Kuma	Thomas	Teacher Training	ATE Program for Physics Faculty	Poster	PST1D-15	Dana Atrium	7/27/2009	8:30 PM
Young	Philip	Implementing & Evaluating Curriculum	Implementing Studio Physics at an Undergraduate Engineering School	Poster	PST1E-01	Dana Atrium	7/27/2009	8:30 PM
Maronde	Dan	Implementing & Evaluating Curriculum	Implementation of Elements of the Physics Suite at UCF	Poster	PST1E-02	Dana Atrium	7/27/2009	8:30 PM
Li	Sissi	Implementing & Evaluating Curriculum	Developing a Community of Practice in Large-Enrollment Introductory Calculus-Based Physics	Poster	PST1E-03	Dana Atrium	7/27/2009	8:30 PM
Zhang	Yibing	Implementing & Evaluating Curriculum	Highschool Physics Curriculum	Poster	PST1E-04	Dana Atrium	7/27/2009	8:30 PM
Turpen	Chandra	Implementing & Evaluating Curriculum	Students' Perceptions of the Use of Tutorials at the University of Colorado	Poster	PST1E-05	Dana Atrium	7/27/2009	8:30 PM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
Burleson	Sarah	Implementing & Evaluating Curriculum	Student Learning of Specific Physics Content in the "Studio/SCALE-UP" Environment	Poster	PST1E-06	Dana Atrium	7/27/2009	8:30 PM
Pollock	Steven	Implementing & Evaluating Curriculum	Longer Term Impacts of Transformed Pedagogies on Student Conceptual Understanding	Poster	PST1E-07	Dana Atrium	7/27/2009	8:30 PM
Tarabek	Paul	Implementing & Evaluating Curriculum	Concept Map of Curriculum: A Cognitive Architecture of Concepts	Poster	PST1E-08	Dana Atrium	7/27/2009	8:30 PM
Henderson	Charles	Implementing & Evaluating Curriculum	Physics Instructors' Knowledge About and Use of Research-Based Instructional Strategies: Preliminary Results from a Web Survey	Poster	PST1E-09	Dana Atrium	7/27/2009	8:30 PM
Ambrose	Bradley	Implementing & Evaluating Curriculum	Great Expectations? The Relationship Between Implementers and Innovators During Instructional Reform	Poster	PST1E-10	Dana Atrium	7/27/2009	8:30 PM
Titus	Aaron	PER Methods & Assessments	A review of Standardized Testing in Physics	Poster	PST1F-01	Dana Atrium	7/27/2009	8:30 PM
Willis	Courtney	PER Methods & Assessments	Factor Analysis and the Force Concept Inventory	Poster	PST1F-02	Dana Atrium	7/27/2009	8:30 PM
Semak	Matthew	PER Methods & Assessments	Predicting FCI Gain with a Nonverbal Intelligence Test	Poster	PST1F-03	Dana Atrium	7/27/2009	8:30 PM
Wagner	DJ	PER Methods & Assessments	Development of a Fluids Diagnostic Exam	Poster	PST1F-04	Dana Atrium	7/27/2009	8:30 PM
Springuel	R. Padraic	PER Methods & Assessments	Using Cluster Analysis to Group Student Responses on the FMCE	Poster	PST1F-05	Dana Atrium	7/27/2009	8:30 PM
Springuel	R. Padraic	PER Methods & Assessments	Comparing Cluster Analysis and Traditional Analysis Methods in PER: More Data	Poster	PST1F-06	Dana Atrium	7/27/2009	8:30 PM
Yale	Melissa	PER Methods & Assessments	The Influence of Motivation in Completing Low-Stakes Assessments	Poster	PST1F-07	Dana Atrium	7/27/2009	8:30 PM
Carmichael	Adrian	PER Methods & Assessments	How Does Classroom or Interview Room Environment Affect Research Data?*	Poster	PST1F-08	Dana Atrium	7/27/2009	8:30 PM
Chini	Jacquelyn	PER Methods & Assessments	Can Simulations Replace Hands-on Experiments in Mechanics Too?*	Poster	PST1F-09	Dana Atrium	7/27/2009	8:30 PM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
Singh	Chandralekha	PER Methods & Assessments	Peer Instruction for Quantum Mechanics	Poster	PST1F-10	Dana Atrium	7/27/2009	8:30 PM
Perez-Goytia	Nadia	Conceptual Understanding & Reasoning	Testing Student Interpretation of Kinematics and Calculus Graphs	Poster	PST1G-01	Dana Atrium	7/27/2009	8:30 PM
Hawkins	Jeffrey	Conceptual Understanding & Reasoning	Exploring Student Consistency in Vector Addition Method Choices	Poster	PST1G-02	Dana Atrium	7/27/2009	8:30 PM
Zavala	Genaro	Conceptual Understanding & Reasoning	The Concept of Vector Direction Among Entering Students in a Mexican University	Poster	PST1G-03	Dana Atrium	7/27/2009	8:30 PM
Sayre	Eleanor	Conceptual Understanding & Reasoning	Changes in Student Understanding of Vector Products	Poster	PST1G-04	Dana Atrium	7/27/2009	8:30 PM
Hayes	Kate	Conceptual Understanding & Reasoning	Identifying 'A-ha' Moments in Group Problem Solving	Poster	PST1G-05	Dana Atrium	7/27/2009	8:30 PM
Black	Katrina	Conceptual Understanding & Reasoning	Modeling the Creation of Procedural Resources	Poster	PST1G-06	Dana Atrium	7/27/2009	8:30 PM
Rosenblatt	Rebecca	Conceptual Understanding & Reasoning	Evolution in Student Models of Force, Velocity, and Acceleration Relationships?	Poster	PST1G-07	Dana Atrium	7/27/2009	8:30 PM
Flores	Sergio	Conceptual Understanding & Reasoning	Student Understanding Difficulties with Tension Force in Introductory Physics Courses	Poster	PST1G-08	Dana Atrium	7/27/2009	8:30 PM
Tarabek	Paul	Conceptual Understanding & Reasoning	Concept Mapping of Aristotelian and Newtonian Level of the Concept "Force": A Cognitive Architecture of Concepts	Poster	PST1G-09	Dana Atrium	7/27/2009	8:30 PM
Tarabek	Paul	Conceptual Understanding & Reasoning	Concept Mapping of Vygotian Phases of Electricity Concepts	Poster	PST1G-10	Dana Atrium	7/27/2009	8:30 PM
Lee	JungSook	Conceptual Understanding & Reasoning	Elementary School Students' Recognition of Electric Circuit Elements in Untypical Situations	Poster	PST1G-11	Dana Atrium	7/27/2009	8:30 PM
Johnson	Andy	Conceptual Understanding & Reasoning	How Do Students Differentiate Electrical Energy and Electrical Current?	Poster	PST1G-12	Dana Atrium	7/27/2009	8:30 PM
Sanchez	Casey	Conceptual Understanding & Reasoning	Examining Students Understanding of Lenz's Law and Faraday's Law	Poster	PST1G-13	Dana Atrium	7/27/2009	8:30 PM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
Zeng	Liang	Conceptual Understanding & Reasoning	Pictorial Representations of Longitudinal Standing Waves	Poster	PST1G-14	Dana Atrium	7/27/2009	8:30 PM
Smith	Trevor	Conceptual Understanding & Reasoning	Addressing Student Difficulties Considering Entropy and Heat Engines	Poster	PST1G-15	Dana Atrium	7/27/2009	8:30 PM
Leinonen	Risto	Conceptual Understanding & Reasoning	University Students' Pre-Instruction Knowledge About Temperature and Adiabatic Compression	Poster	PST1G-16	Dana Atrium	7/27/2009	8:30 PM
Mountcastle	Donald	Conceptual Understanding & Reasoning	Conceptual Difficulties with Binomial Distributions in Statistical Physics	Poster	PST1G-17	Dana Atrium	7/27/2009	8:30 PM
Zhu	Guangtian	Conceptual Understanding & Reasoning	Student's understanding of Stern Gerlach Experiment	Poster	PST1G-18	Dana Atrium	7/27/2009	8:30 PM
Meredith	Dawn	Reforming the Introductory Physics Course for Life Science Majors	Strategies for Teaching Physics to Undergraduate Biologists	Con/Poster	BA07	CC Little 1528	7/28/2009	3:10 PM
Crouch	Catherine	Reforming the Introductory Physics Course for Life Science Majors	A Stand-Alone Course in Optics, Electricity, and Magnetism for the Life Sciences	Con/Poster	BA08	CC Little 1528	7/28/2009	3:20 PM
Beverly	Nancy	Reforming the Introductory Physics Course for Life Science Majors	Evolving Reform of an IPLS course serving a significant Underprepared Student Population	Con/Poster	BA09	CC Little 1528	7/28/2009	3:30 PM
		Pre-College Physics Potpourri		Con	DA	Chemistry 1200	7/28/2009	8:30 AM
Sawadthaisong	Nattakit	Pre-College Physics Potpourri	A Quantitative Demonstration of the Momentum and Kinetic Energy in an Entire Collision	Contributed	DA01	Chemistry 1200	7/28/2009	8:30 AM
Mosca	Joseph	Pre-College Physics Potpourri	Kinematics of the Assembly Line to Teach the Doppler Shift	Contributed	DA02	Chemistry 1200	7/28/2009	8:40 AM
Cole	Richard	Pre-College Physics Potpourri	Spreadsheet Analysis and Model of a Big Yellow Bus	Contributed	DA03	Chemistry 1200	7/28/2009	8:50 AM
Bynum	Nancy	Pre-College Physics Potpourri	Using Dark Matter to Teach Physics Topics in the Classroom	Contributed	DA04	Chemistry 1200	7/28/2009	9:00 AM
Agrest	Mikhail	Pre-College Physics Potpourri	Physics and Lyrics: Storytelling in Teaching Physics	Contributed	DA05	Chemistry 1200	7/28/2009	9:10 AM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
Semrau	William	Pre-College Physics Potpourri	Physics Class It's All Greek to Me	Contributed	DA06	Chemistry 1200	7/28/2009	9:20 AM
Hubisz	John	Pre-College Physics Potpourri	Physics First Textbook Discussion	Contributed	DA07	Chemistry 1200	7/28/2009	9:30 AM
Potvin	Geoff	Pre-College Physics Potpourri	Unraveling Bias from Student Evaluations of High School Science Teachers	Contributed	DA08	Chemistry 1200	7/28/2009	9:40 AM
Finley	James	Pre-College Physics Potpourri	Raising the Bar: Middle School Students Learn Through the Physics Union Mathematics Curriculum	Contributed	DA09	Chemistry 1200	7/28/2009	9:50 AM
Bartiromo	Tara	Pre-College Physics Potpourri	Reformed Instruction and Experience: Is there a Link?	Contributed	DA10	Chemistry 1200	7/28/2009	10:00 AM
Maier	Steven	Pre-College Physics Potpourri	BEST Robotics: For High Schools and Middle Schools	Contributed	DA11	Chemistry 1200	7/28/2009	10:10 AM
Winters	Victoria	Pre-College Physics Potpourri	Unexpected findings from fourth graders' work with batteries and bulbs	Contributed	DA12	Chemistry 1200	7/28/2009	10:20 AM
		Student Conceptual Difficulties: Introductory and Upper-Level Topics		Con	DB	Chemistry 1210	7/28/2009	8:30 AM
Zavala	Genaro	Student Conceptual Difficulties: Introductory and Upper-Level Topics	Investigation of Student Understanding of Vector Direction Concept in a Mexican University	Contributed	DB01	Chemistry 1210	7/28/2009	8:30 AM
Hawkins	Jeffrey	Student Conceptual Difficulties: Introductory and Upper-Level Topics	Exploring the Effect of Presentation on Student Vector Addition Methods	Contributed	DB02	Chemistry 1210	7/28/2009	8:40 AM
Flores	Sergio	Student Conceptual Difficulties: Introductory and Upper-Level Topics	Student Understanding Difficulties with Vectors in Contexts Related to Mechanics	Contributed	DB03	Chemistry 1210	7/28/2009	8:50 AM
Bryan	Joel	Student Conceptual Difficulties: Introductory and Upper-Level Topics	A Closer Look at Full Length Mirror Image Predictions	Contributed	DB04	Chemistry 1210	7/28/2009	9:00 AM
Scaife	Thomas	Student Conceptual Difficulties: Introductory and Upper-Level Topics	Student Difficulties with the Sign of Magnetic Force on a Charged Particle	Contributed	DB05	Chemistry 1210	7/28/2009	9:10 AM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
Crema	Rebecca	Student Conceptual Difficulties: Introductory and Upper-Level Topics	Exploring Student Knowledge of Voltage, Resistance, and Current	Contributed	DB06	Chemistry 1210	7/28/2009	9:20 AM
Mountcastle	Donald	Student Conceptual Difficulties: Introductory and Upper-Level Topics	Exploring Student Difficulties with Multiplicity and Probability in Statistical Physics	Contributed	DB07	Chemistry 1210	7/28/2009	9:30 AM
Loverude	Michael	Student Conceptual Difficulties: Introductory and Upper-Level Topics	Student Understanding in Upper- division Physics and Chemistry Courses Covering Thermodynamics	Contributed	DB08	Chemistry 1210	7/28/2009	9:40 AM
Smith	Trevor	Student Conceptual Difficulties: Introductory and Upper-Level Topics	Preliminary Results of Curriculum Development in Upper-Level Thermodynamics: Heat Engines	Contributed	DB09	Chemistry 1210	7/28/2009	9:50 AM
Christensen	Warren	Student Conceptual Difficulties: Introductory and Upper-Level Topics	Curriculum Adaptation in Upper- Level Thermodynamics: Entropy and the Second Law	Contributed	DB10	Chemistry 1210	7/28/2009	10:00 AM
Goldhaber	Steve	Student Conceptual Difficulties: Introductory and Upper-Level Topics	Development of a Conceptual Post- Test for Upper-division Quantum Mechanics	Contributed	DB11	Chemistry 1210	7/28/2009	10:10 AM
Moyer	Adam	Student Conceptual Difficulties: Introductory and Upper-Level Topics	Identifying Student Difficulties with Pressure in a Fluid	Contributed	DB12	Chemistry 1210	7/28/2009	10:20 AM
		What to Teach After Newtonian Mechanics		Inv/Con	DC	Chemistry 1300	7/28/2009	8:30 AM
Coletta	Vincent	What to Teach After Newtonian Mechanics	Re-Thinking High School Physics	Invited	DC01	Chemistry 1300	7/28/2009	8:30 AM
Robinson	Paul	What to Teach After Newtonian Mechanics	Orbiting SatellitesBoth Around and Through the Center of Earth	Contributed	DC02	Chemistry 1300	7/28/2009	9:00 AM
Barrantes	Analia	What to Teach After Newtonian Mechanics	What Else Should Students Learn in Introductory Physics?	Contributed	DC03	Chemistry 1300	7/28/2009	9:10 AM
Hood	Tracy	What to Teach After Newtonian Mechanics	High School Magnetism at the Nano-scale	Contributed	DC04	Chemistry 1300	7/28/2009	9:20 AM
Keeports	David	What to Teach After Newtonian Mechanics	System and Object Potential Energies	Contributed	DC05	Chemistry 1300	7/28/2009	9:30 AM

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Last Name	First Name	Sessname	Title	Туре	Code	Room	Date	Time
Mayntz	Marc	What to Teach After Newtonian Mechanics		Contributed	DC06	Chemistry 1300	7/28/2009	9:40 AM
Stamas	Edward	What to Teach After Newtonian Mechanics	The Limits of Prediction: Students' Conceptions of Chaotic Behavior in Nonlinear Systems	Contributed	DC07	Chemistry 1300	7/28/2009	9:50 AM
Lewis	Clinton	What to Teach After Newtonian Mechanics	The Ubiquitous Lorentz Force	Contributed	DC08	Chemistry 1300	7/28/2009	10:00 AM
Oliver	Douglas	What to Teach After Newtonian Mechanics	Consider Integrating Engineering- Design in Support of Physics	Contributed	DC09	Chemistry 1300	7/28/2009	10:10 AM
		Assessment of Effectiveness of Educational Technology in Instruction		Con	DD	Chemistry 1400	7/28/2009	8:30 AM
Kahn	Jason	Assessment of Effectiveness of Educational Technology in Instruction	Comparing Student Gains with and Without Clickers in Introductory Physics	Contributed	DD01	Chemistry 1400	7/28/2009	8:30 AM
Paulson	Archie	Assessment of Effectiveness of Educational Technology in Instruction	PhET Simulations: Should We Show the invisible?	Contributed	DD02	Chemistry 1400	7/28/2009	8:40 AM
Stelzer	Tim	Assessment of Effectiveness of Educational Technology in Instruction	Assessing the Effectiveness of Multimedia Prelectures in Introductory Physics	Contributed	DD03	Chemistry 1400	7/28/2009	8:50 AM
Sadaghiani	Homeyra	Assessment of Effectiveness of Educational Technology in Instruction	Using Multimedia Learning Modules (MLM) as Part of a Hybrid Course in Electricity and Magnetism	Contributed	DD04	Chemistry 1400	7/28/2009	9:00 AM
Carter	Tom	Assessment of Effectiveness of Educational Technology in Instruction	Assessing the Effectiveness of Multimedia Pre-lectures at a Two- Year College	Contributed	DD05	Chemistry 1400	7/28/2009	9:10 AM
Chen	Zhongzhou	Assessment of Effectiveness of Educational Technology in Instruction	Using Multimedia Pre-lectures to Improve Students' Understanding of Physics Concepts	Contributed	DD06	Chemistry 1400	7/28/2009	9:20 AM

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Last Name	First Name	Sessname	Title	Туре	Code	Room	Date	Time
Raeburn	Stuart	Assessment of Effectiveness of Educational Technology in Instruction	LON-CAPA: An Affordable Educational Tool for Teachers and Students	Contributed	DD07	Chemistry 1400	7/28/2009	9:30 AM
Nakamura	Chris	Assessment of Effectiveness of Educational Technology in Instruction	ALT-Pathway: Synthetic Tutors for Probing Student Learning	Contributed	DD08	Chemistry 1400	7/28/2009	9:40 AM
Evans	Matt	Assessment of Effectiveness of Educational Technology in Instruction	Why Use Clickers When They Don't Help Instruction?	Contributed	DD09	Chemistry 1400	7/28/2009	9:50 AM
Dziembowski	Zbigniew	Assessment of Effectiveness of Educational Technology in Instruction	Googling for Physics Homework	Contributed	DD10	Chemistry 1400	7/28/2009	10:00 AM
		National Task Force on Physics Teacher Preparation: An Update	National Task Force on Physics Teacher Preparation: An Update	Ckrbrl	DDD	CC Little 1505	7/28/2009	7:00 AM
		Overcoming Barriers: Establishing and Improving Teacher Preparation Programs	Overcoming Barriers: Establishing and Improving Teacher Preparation Programs	Panel	DE	Chemistry 1640	7/28/2009	8:30 AM
O'Connor	Jerry	Overcoming Barriers: Establishing and Improving Teacher Preparation Programs	Overcoming Barriers: Establishing and Improving Teacher Preparation Programs	Panel	DE01	Chemistry 1640	7/28/2009	8:30 AM
		Introductory College Level Courses		Con	DF	Dana 1040	7/28/2009	8:30 AM
Demaree	Dedra	Introductory College Level Courses	Documenting the Development of Pedagogical Content Knowledge	Contributed	DF01	Dana 1040	7/28/2009	8:30 AM
Cise	John	Introductory College Level Courses	Physics Applications from the New York Times	Contributed	DF02	Dana 1040	7/28/2009	8:40 AM
Reeves	Mark	Introductory College Level Courses	An Introductory Mechanics Approach to Cells and Molecules	Contributed	DF03	Dana 1040	7/28/2009	8:50 AM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
Markes	C. Trecia	Introductory College Level Courses	Strength of Student Models in Force and Motion*	Contributed	DF04	Dana 1040	7/28/2009	9:00 AM
Pawl	Andrew	Introductory College Level Courses	Modeling Applied to Problem Solving	Contributed	DF05	Dana 1040	7/28/2009	9:10 AM
Dubson	Michael	Introductory College Level Courses	Do GoodStudents Have Good Homework Habits?	Contributed	DF06	Dana 1040	7/28/2009	9:20 AM
Holcomb	Donald	Introductory College Level Courses	Building Up-to-Date Syllabi for IPLS Courses	Contributed	DF07	Dana 1040	7/28/2009	9:30 AM
Andrews	James	Introductory College Level Courses	Teaching by "Cycling" at CWRU and YSU	Contributed	DF08	Dana 1040	7/28/2009	9:40 AM
Stewart	John	Introductory College Level Courses	Identifying Intellectually Similar Groups of Students	Contributed	DF09	Dana 1040	7/28/2009	9:50 AM
Medsker	Larry	Introductory College Level Courses	Transfer of PER Principles and Methods to Honors Science	Contributed	DF10	Dana 1040	7/28/2009	10:00 AM
Lin	Yuhfen	Introductory College Level Courses	Examining Change Strategies in University STEM Education	Contributed	DF11	Dana 1040	7/28/2009	10:10 AM
Battle	Adrienne	Introductory College Level Courses	Challenges and Successes in Using Discourse Management	Contributed	DF12	Dana 1040	7/28/2009	10:20 AM
		DMAPT - New Demos in E & M		Other	DG01	Dennison 170	7/28/2009	8:30 AM
		DMAPT - Discrepant Events		Other	DG02	Dennison 170	7/28/2009	9:30 AM
		Successful Strategies for Dissemination and Implementation of PER-Based Materials and Research Findings Beyond the "Traditional PER Faculty"		Inv/Con	DH	Dennison 182	7/28/2009	8:30 AM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
White Brahmia	Suzanne	Successful Strategies for Dissemination and Implementation of PER-Based Materials and Research Findings Beyond the "Traditional PER Faculty"	Beyond Traditional Faculty: Creative Human Resource Solutions for Sustaining Reform	Invited	DH01	Dennison 182	7/28/2009	8:30 AM
Pollock	Steven	Successful Strategies for Dissemination and Implementation of PER-Based Materials and Research Findings Beyond the "Traditional PER Faculty"	When Top Down Meets Bottom Up: Supporting Educational Transformation in a Physics Department	Invited	DH02	Dennison 182	7/28/2009	9:00 AM
Henderson	Charles	Successful Strategies for Dissemination and Implementation of PER-Based Materials and Research Findings Beyond the "Traditional PER Faculty"	Promoting Instructional Change in New Faculty	Invited	DH03	Dennison 182	7/28/2009	9:30 AM
Caballero	Marcos	Successful Strategies for Dissemination and Implementation of PER-Based Materials and Research Findings Beyond the	Comparing Performance in Two Mechanics Curricula (A 6000 Student Study)	Contributed	DH04	Dennison 182	7/28/2009	10:00 AM
Feldman	Gerald	Successful Strategies for Dissemination and Implementation of PER-Based Materials and Research Findings Beyond the	Collaborative Group Learning Using the SCALE-UP Approach	Contributed	DH05	Dennison 182	7/28/2009	10:10 AM
Perkins	Katherine	Successful Strategies for Dissemination and Implementation of PER-Based Materials and Research Findings Beyond the	CU Science Education Initiative: Factors that Facilitate or Hinder Sustainable Change	Contributed	DH06	Dennison 182	7/28/2009	10:20 AM
		New Faculty Workshop for TYC Faculty		Inv/Con	EA	CC Little 1528	7/28/2009	1:00 PM
Schultz	Scott	New Faculty Workshop for TYC Faculty	A Professional Development Experience for New Two-Year College Instructors	Invited	EA01	CC Little 1528	7/28/2009	1:00 PM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
Sarsah	Dominic	New Faculty Workshop for TYC Faculty	Improving Physics Teaching with New Faculty Training Conference (NFTC) Techniques	Contributed	EA02	CC Little 1528	7/28/2009	1:30 PM
Christensen	Sheri	New Faculty Workshop for TYC Faculty	New Faculty Workshops (ATE Program): Teaching the Technical Student	Contributed	EA03	CC Little 1528	7/28/2009	1:40 PM
Mattern	Danny	New Faculty Workshop for TYC Faculty	Teaching Strategies from the NFW for TYC Faculty	Contributed	EA04	CC Little 1528	7/28/2009	1:50 PM
Kapkiai	Luka	New Faculty Workshop for TYC Faculty	Using Micro-Based Computer Labs and Project-Based Physics in the Instruction of Physics Courses at Neosho County Community College	Contributed	EA05	CC Little 1528	7/28/2009	2:00 PM
		Presenting Cutting- Edge Research for Outreach and Teaching		Inv	EB	Chemistry 1200	7/28/2009	1:00 PM
Meiners	Jens-Christian	Presenting Cutting- Edge Research for Outreach and Teaching	Teaching Biophysics as a Discipline in its Own Right	Invited	EB01	Chemistry 1200	7/28/2009	1:00 PM
Cinabro	David	Presenting Cutting- Edge Research for Outreach and Teaching	School-Based Supernova Search	Invited	EB02	Chemistry 1200	7/28/2009	1:30 PM
Shtein	Max	Presenting Cutting- Edge Research for Outreach and Teaching	Teaching and Outreach Derived from University-Based Research on Novel Energy Conversion Technology and Organic Semiconductor Devices	Invited	EB03	Chemistry 1200	7/28/2009	2:00 PM
		The Art and Science of Physics Teaching		Inv	EC	Chemistry 1210	7/28/2009	1:00 PM
Shaffer	Peter	The Art and Science of Physics Teaching	Improving the Art & Science of Instruction Through Physics Education Research	Invited	EC01	Chemistry 1210	7/28/2009	1:00 PM
Zollman	Dean	The Art and Science of Physics Teaching	Interactions Between the Art & Science of Physics Learning- Teaching	Invited	EC02	Chemistry 1210	7/28/2009	1:30 PM
Schwartz	Daniel	The Art and Science of Physics Teaching	Why Students Fail to Transfer and What to About It	Invited	EC03	Chemistry 1210	7/28/2009	2:00 PM

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		Teachers in Residence: Adding Reality to Physics Teacher Preparation Programs		Inv/Con	ED	Chemistry 1300	7/28/2009	1:00 PM
Reif	Marc	Teachers in Residence: Adding Reality to Physics Teacher Preparation Programs	Once an Arkansas TIR, Always an Arkansas TIR	Invited	ED01	Chemistry 1300	7/28/2009	1:00 PM
Isola	Drew	Teachers in Residence: Adding Reality to Physics Teacher Preparation Programs	From TIR to the Classroom: A Journey there and Back Again	Contributed	ED02	Chemistry 1300	7/28/2009	1:30 PM
Woolard	Elizabeth	Teachers in Residence: Adding Reality to Physics Teacher Preparation Programs	The Challenge of Teaching How to Approach Teaching Physics	Contributed	ED03	Chemistry 1300	7/28/2009	1:40 PM
lona	Steven	Teachers in Residence: Adding Reality to Physics Teacher Preparation Programs	TiR and SPIN-UP	Contributed	ED04	Chemistry 1300	7/28/2009	1:50 PM
Anderson	Jon	Teachers in Residence: Adding Reality to Physics Teacher Preparation Programs	PhysTEC at the University of Minnesota Turns Two	Contributed	ED05	Chemistry 1300	7/28/2009	2:00 PM
Gibert	Jorge	Teachers in Residence: Adding Reality to Physics Teacher Preparation Programs	TIR Project: A Continuum at FIU	Contributed	ED06	Chemistry 1300	7/28/2009	2:10 PM
		Wii Remote for Physics Learning		Inv/Con	EE	Chemistry 1400	7/28/2009	1:00 PM
Cox	Anne	Wii Remote for Physics Learning	Wiimote Whiteboard	Invited	EE01	Chemistry 1400	7/28/2009	1:00 PM
Salgado	Roberto	Wii Remote for Physics Learning	Yes, Wii Can Do Physics with Vpython	Invited	EE02	Chemistry 1400	7/28/2009	1:30 PM
Price	Edward	Wii Remote for Physics Learning	Wii Remote-Based, Inexpensive "digital" Whiteboards for Capturing student Work	Contributed	EE03	Chemistry 1400	7/28/2009	2:00 PM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
		Professional Concerns of PER Solo Faculty		Ckrbrl	EEE	CC Little 1512	7/28/2009	11:30 AM
		International Issues in the AAPT		Ckrbrl	EEF	CC Little 1505	7/28/2009	11:30 AM
		Professional Concerns of Graduate Students	Professional Concerns of Graduate Students	Ckrbrl	EEG	CC Little 1518	7/28/2009	11:30 AM
		Forgotten Women in Science		Inv/Con	EF	Chemistry 1640	7/28/2009	1:00 PM
Antimirova	Tetyana	Forgotten Women in Science	Henrietta Swan Leavitt: Measuring the Universe	Invited	EF01	Chemistry 1640	7/28/2009	1:00 PM
Milner-Bolotin	Marina	Forgotten Women in Science	Helen Sawyer Hogg: A Woman, an Astronomer, and a Great Communicator of Science	Invited	EF02	Chemistry 1640	7/28/2009	1:30 PM
Geramita	Matthew	Forgotten Women in Science	From X-Rays to Nuclear Proliferation: The Life of Katherine Chamberlain	Contributed	EF03	Chemistry 1640	7/28/2009	2:00 PM
		Biography in Physics		Inv	EG	Dana 1040	7/28/2009	1:00 PM
Hirshfeld	Alan	Biography in Physics	Eureka Man: The Life and Legacy of Archimedes	Invited	EG01	Dana 1040	7/28/2009	1:00 PM
Greenslade, Jr.	Thomas	Biography in Physics	The Physicists and their Apparatus	Invited	EG02	Dana 1040	7/28/2009	1:30 PM
		Enabling Us All: The Broad Physics Legacy of H. Richard Crane		Inv	EH	Dennison 170	7/28/2009	1:00 PM
Holbrow	Charles	Enabling Us All: The Broad Physics Legacy of H. Richard Crane	Dick Crane's California Years	Invited	EH01	Dennison 170	7/28/2009	1:00 PM
Zorn	Jens	Enabling Us All: The Broad Physics Legacy of H. Richard Crane	H.R. Crane - An Icon of Michigan Physics	Invited	EH02	Dennison 170	7/28/2009	1:30 PM
Peterson	Richard	Enabling Us All: The Broad Physics Legacy of H. Richard Crane	H. Richard Crane – Enabling Teacher Par Excellent of "How Things Work"	Invited	EH03	Dennison 170	7/28/2009	2:00 PM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
		Highlights of the International Year of Astronomy		Inv/Con	EI	Dennison 182	7/28/2009	1:00 PM
LoPresto	Michael	Highlights of the International Year of Astronomy	IYA Celebrations in Michigan	Invited	EI01	Dennison 182	7/28/2009	1:00 PM
Bartolone	Lindsay	Highlights of the International Year of Astronomy	IYA at the Adler Planetarium	Invited	EI02	Dennison 182	7/28/2009	1:30 PM
Daub	Peggy	Highlights of the International Year of Astronomy	The Michigan Galileo Manuscript	Contributed	EI03	Dennison 182	7/28/2009	2:00 PM
Klassen	ิ	Highlights of the International Year of Astronomy	Celebrating Galileo at The Franklin	Contributed	EI04	Dennison 182	7/28/2009	2:10 PM
		Research Based Studies on Writing to Learn: From the Fine Grained to the Large Scale		Panel	FA	CC Little 1528	7/28/2009	4:15 PM
Brookes	David	Research Based Studies on Writing to Learn: From the Fine Grained to the Large Scale	Language and Communication in Physics	Panel	FA01	CC Little 1528	7/28/2009	4:15 PM
Mestre	Jose	Research Based Studies on Writing to Learn: From the Fine Grained to the Large Scale	Writing Qualitative Strategies to Highlight the Role of Concepts in Problem Solving	Panel	FA02	CC Little 1528	7/28/2009	4:15 PM
Franklin	Scott	Research Based Studies on Writing to Learn: From the Fine Grained to the Large Scale	Key-logging as a window into student writing	Panel	FA03	CC Little 1528	7/28/2009	4:15 PM
Vigil	Melissa	Research Based Studies on Writing to Learn: From the Fine Grained to the Large Scale	Rethinking Writing Assignments for the Introductory Physics Lab	Panel	FA04	CC Little 1528	7/28/2009	4:15 PM
Manogue	Corinne	Research Based Studies on Writing to Learn: From the Fine Grained to the Large Scale	Using Guiding Questions and Rubrics to Improve Students' Scientific Writing	Panel	FA05	CC Little 1528	7/28/2009	4:15 PM

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		Frontiers in Variable Star Astronomy		Inv	FB	Chemistry 1200	7/28/2009	4:15 PM
Tiede	Glenn	Frontiers in Variable Star Astronomy	RR Lyrae Variable Stars Research and Education	Invited	FB01	Chemistry 1200	7/28/2009	4:15 PM
Schmidt	Edward	Frontiers in Variable Star Astronomy	Mining Sky Surveys for Variable Stars	Invited	FB02	Chemistry 1200	7/28/2009	4:45 PM
Smith	Horace	Frontiers in Variable Star Astronomy	RR Lyrae Variables and the Formation of the Milky Way Galaxy	Invited	FB03	Chemistry 1200	7/28/2009	5:15 PM
		Students' Reasoning, Understanding, and Mental Models		Con	FC	Chemistry 1210	7/28/2009	4:15 PM
Matloob Haghani	Mojgan	Students' Reasoning, Understanding, and Mental Models	Exploring Students' Patterns of Reasoning	Contributed	FC01	Chemistry 1210	7/28/2009	4:15 PM
Koenig	Kathleen	Students' Reasoning, Understanding, and Mental Models	Developing Scientific Reasoning Through a Unique Introductory College Science Course*	Contributed	FC02	Chemistry 1210	7/28/2009	4:25 PM
Schober	Mark	Students' Reasoning, Understanding, and Mental Models	Correlation Analysis of High School Students' Coursework and Reasoning	Contributed	FC03	Chemistry 1210	7/28/2009	4:35 PM
Wang	Jing	Students' Reasoning, Understanding, and Mental Models	The Developmental Trend of Scientific Reasoning Skills	Contributed	FC04	Chemistry 1210	7/28/2009	4:45 PM
Feng	Xiumei	Students' Reasoning, Understanding, and Mental Models	Item Analysis of Gender Difference on Scientific Reasoning Test	Contributed	FC05	Chemistry 1210	7/28/2009	4:55 PM
Han	Jing	Students' Reasoning, Understanding, and Mental Models	Cross Cultural Comparison of Students' Attitudes on Learning	Contributed	FC06	Chemistry 1210	7/28/2009	5:05 PM
Sayre	Eleanor	Students' Reasoning, Understanding, and Mental Models	Mapping Changes in Student Understanding During Instruction	Contributed	FC07	Chemistry 1210	7/28/2009	5:15 PM
Black	Katrina	Students' Reasoning, Understanding, and Mental Models	Observing Different Levels of Resource Coordination in Differential Equations Problems	Contributed	FC08	Chemistry 1210	7/28/2009	5:25 PM
Hayes	Kate	Students' Reasoning, Understanding, and Mental Models	Using Shifts in Student Language and Behavior to Identify "A-ha" Moments	Contributed	FC09	Chemistry 1210	7/28/2009	5:35 PM

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Mestre	José	Students' Reasoning, Understanding, and Mental Models	TheSemantics of	Contributed	FC10	Chemistry 1210	7/28/2009	5:45 PM
		Modeling Instruction in Physics		Inv/Con	FD	Chemistry 1300	7/28/2009	4:15 PM
Cervenec	Jason	Modeling Instruction in Physics	Stuck in Grade Nine? Modeling Instruction in Freshman Physical Science	Invited	FD01	Chemistry 1300	7/28/2009	4:15 PM
Lock	Frank	Modeling Instruction in Physics	Equations Don't Fall from the Ceiling, or Anywhere Higher	Invited	FD02	Chemistry 1300	7/28/2009	4:45 PM
Ritter	Laura	Modeling Instruction in Physics	Engaging Students in Productive and Meaningful Classroom Dialogue	Contributed	FD03	Chemistry 1300	7/28/2009	5:15 PM
Brewe	Eric	Modeling Instruction in Physics	Modeling Instruction: Creating SupportiveLearning Environment at a HIS	Contributed	FD04	Chemistry 1300	7/28/2009	5:25 PM
		Improving the Student Teaching Experience for Future Teachers of Physics		Inv/Con	FE	Chemistry 1400	7/28/2009	4:15 PM
Fetters	Marcia	Improving the Student Teaching Experience for Future Teachers of Physics	A Look at Student Teaching from Different Sides of the Campus	Invited	FE01	Chemistry 1400	7/28/2009	4:15 PM
Etkina	Eugenia	Improving the Student Teaching Experience for Future Teachers of Physics	A Physics Teaching Community as a Solution to Student Teaching Problems	Contributed	FE02	Chemistry 1400	7/28/2009	4:45 PM
Costley	Sarai	Improving the Student Teaching Experience for Future Teachers of Physics	The Effect of Inquiry-Based Early Field Experience on Pre-Service Teachers' Content Knowledge and Attitude Towards Teaching	Contributed	FE03	Chemistry 1400	7/28/2009	4:55 PM
		Diversity Issues		Con	FF	Chemistry 1640	7/28/2009	4:15 PM
Watkins	Jessica	Diversity Issues	Race and Student Achievement in an Interactive Classroom	Contributed	FF01	Chemistry 1640	7/28/2009	4:15 PM
Kost	Lauren	Diversity Issues	Gender Differences in Students' Perceived Experiences in Introductory Physics	Contributed	FF02	Chemistry 1640	7/28/2009	4:25 PM

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Dobbin	Donya	Diversity Issues	When and Why do Students Decide to Major in Physics?	Contributed	FF03	Chemistry 1640	7/28/2009	4:35 PM
Sawtelle	Vashti	Diversity Issues	Evaluating Gender Differences in the Sources of Self-efficacy	Contributed	FF04	Chemistry 1640	7/28/2009	4:45 PM
Hunt	Gary	Diversity Issues	Effects of Single Sex Lab Groups on Physics Self-efficacy, Behavior, and Academic Performance	Contributed	FF05	Chemistry 1640	7/28/2009	4:55 PM
		Upper-Level Undergraduate Physics		Con	FG	Dana 1040	7/28/2009	4:15 PM
Baylis	William	Upper-Level Undergraduate Physics	Relativistic Causality and Quantum Entanglement	Contributed	FG01	Dana 1040	7/28/2009	4:15 PM
Spicklemire	Steve	Upper-Level Undergraduate Physics	Scientific Computing with Python in Introductory Quantum Mechanics	Contributed	FG02	Dana 1040	7/28/2009	4:25 PM
Masters	Mark	Upper-Level Undergraduate Physics	Active Learning Using Tutorials in Intermediate Optics	Contributed	FG03	Dana 1040	7/28/2009	4:35 PM
McBride	Dyan	Upper-Level Undergraduate Physics	Simulations for Teaching Vision and Wavefront Aberrometry	Contributed	FG04	Dana 1040	7/28/2009	4:45 PM
Tasic	Joseph	Upper-Level Undergraduate Physics	Investigation of Factors that Influence the Dynamics of a Precessing Gyroscope	Contributed	FG05	Dana 1040	7/28/2009	4:55 PM
Parvez	M. Sultan	Upper-Level Undergraduate Physics	A less counterintuitive approach to Special Relativity	Contributed	FG06	Dana 1040	7/28/2009	5:05 PM
Lin	Shih-Yin	Upper-Level Undergraduate Physics	Categorization of quantum mechanics problems by professors and students	Contributed	FG07	Dana 1040	7/28/2009	5:15 PM
Zhu	Guangtian	Upper-Level Undergraduate Physics	Improving students' understanding of quantum mechanics	Contributed	FG08	Dana 1040	7/28/2009	5:15 PM
		Physics and Society Education		Inv/Con	FH	Dennison 170	7/28/2009	4:15 PM
Candris	Aris	Physics and Society Education	Nuclear Energy Is There a Renaissance?	Invited	FH01	Dennison 170	7/28/2009	4:15 PM

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Becchetti	Fred	Physics and Society Education	The Magic of Physics	Invited	FH02	Dennison 170	7/28/2009	4:45 PM
Martinuk	Mathew	Physics and Society Education	Research Projects in Introductory Physics: Impacts on Student Attitudes	Contributed	FH03	Dennison 170	7/28/2009	5:15 PM
Carroll	James	Physics and Society Education	A Project-Based Seminar on Accessing Clean Drinking Water	Contributed	FH04	Dennison 170	7/28/2009	5:25 PM
Koss	Matthew	Physics and Society Education	Some Dogma and Karma for Teaching About Science and Religion	Contributed	FH05	Dennison 170	7/28/2009	5:35 PM
Thomsen	Marshall	Physics and Society Education	Ethics Education in Physics: It's More than Meets the Eye	Contributed	FH06	Dennison 170	7/28/2009	5:45 PM
Jackson	David	Physics and Society Education	Quantum Connections: Nonscientists Speaking the Unspeakable About Quantum Mechanics	Contributed	FH07	Dennison 170	7/28/2009	5:55 PM
Gibbons	Thomas	Physics and Society Education	Antarctic Pictures Illustrate Climate Concepts	Contributed	FH08	Dennison 170	7/28/2009	6:05 PM
		Interactive Lecture Demonstrations: Physics Suite Materials that Enhance Learning in Lecture		Inv/Con	FI	Dennison 182	7/28/2009	4:15 PM
Sokoloff	David	Interactive Lecture Demonstrations: Physics Suite Materials that Enhance Learning in Lecture	Interactive Lecture Demonstrations: Active Learning in Lecture	Invited	FI01	Dennison 182	7/28/2009	4:15 PM
Kahn	Jason	Interactive Lecture Demonstrations: Physics Suite Materials that Enhance Learning in Lecture	Interactive Lecture Demonstrations: Effectiveness in Teaching Concepts	Invited	FI02	Dennison 182	7/28/2009	4:45 PM
Efthimiou	Costas	Interactive Lecture Demonstrations: Physics Suite Materials that Enhance Learning in Lecture	Interactive Lecture Demonstrations:A First Attempt at UCF	Contributed	FI03	Dennison 182	7/28/2009	5:15 PM

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Li	Linghong	Interactive Lecture Demonstrations: Physics Suite Materials that Enhance Learning in Lecture	Using Interactive Lecture Demonstrations in Electricity and Magnetism	Contributed	FI04	Dennison 182	7/28/2009	5:25 PM
Popa	Gabriela	Interactive Lecture Demonstrations: Physics Suite Materials that Enhance Learning in Lecture	Interactive Lecture Demonstration in Introductory Physics	Contributed	FI05	Dennison 182	7/28/2009	5:35 PM
Teese	Robert	Interactive Lecture Demonstrations: Physics Suite Materials that Enhance Learning in Lecture	LivePhoto Interactive Lecture Demonstrations	Contributed	FI06	Dennison 182	7/28/2009	5:45 PM
		DMAPT - Make and Take for Demonstrations		Other	FJ	Randall 1412	7/28/2009	4:15 PM
		Klopsteg Award		Plenary	P4	Mendelssohn	7/28/2009	10:30 AM
Smolin	Lee		The role of the scientists as public intellectual	Invited	P4	Mendelssohn	7/28/2009	10:30 AM
Belloni	Mario		Using Technology to Increase Student Engagement Inside and Outside of the Classroom	Invited	P5	Mendelssohn	7/28/2009	2:30 PM
Roudebush	Deborah		What Your Mother Never Told You AboutPhysics Teaching	Invited	P5	Mendelssohn	7/28/2009	2:30 PM
		Ceremonial Session		Plenary	P5	Mendelssohn	7/28/2009	2:30 PM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
		High School Physics, Particle Physics for High School, Physics & Society Education, Physics & Life Science, Introductory Physics, Upper Division, Technology in the Into Course, ComPADRE, Teaching with Technology, Evaluation of Technology, Innovations in Teaching Astronomy, Problem Solving, General Topics of Interest in PER, Scientifc Reasoning, Expectations & Gender Issues		Poster	PST2	Dana Atrium	7/28/2009	8:30 PM
Trampleasure	Lee	High School Physics	Concept Mapping Software in a High School Physics Class	Poster	PST2A-01	Dana Atrium	7/28/2009	8:30 PM
Pullar	Steven	High School Physics	Modeling for Physics and Understanding Mechanics Concepts	Poster	PST2A-02	Dana Atrium	7/28/2009	8:30 PM
Pawl	Andrew	High School Physics	Mining the Internet for Introductory Physics Data: Sports Equipment	Poster	PST2A-03	Dana Atrium	7/28/2009	8:30 PM
Emerson	Anne	High School Physics	Girls' Gateways to Physics Education in Cameroon	Poster	PST2A-05	Dana Atrium	7/28/2009	8:30 PM
Mody	Dr. Ashok	High School Physics	Misconception in Understanding the Circular Motion	Poster	PST2A-06	Dana Atrium	7/28/2009	8:30 PM
Cottaar	Alice	High School Physics	Improving Learning Strategy Makes Physics Student More Successful	Poster	PST2A-07	Dana Atrium	7/28/2009	8:30 PM
Maier	Steven	High School Physics	Status Report: Teaching High School Physics in Oklahoma	Poster	PST2A-08	Dana Atrium	7/28/2009	8:30 PM
Faleski	Michael	High School Physics	AAPT's PhysicsBowl - a contest for high school students	Poster	PST2A-09	Dana Atrium	7/28/2009	8:30 PM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
Anderson	Jon	Particle Physics in High Schools	QuarkNet as a Model for Sustained Professional Development	Poster	PST2B-01	Dana Atrium	7/28/2009	8:30 PM
Cole	Richard	Particle Physics in High Schools	A Remotely Accessible Synchrotron Radiation Beamline	Poster	PST2B-03	Dana Atrium	7/28/2009	8:30 PM
Hassani	Sadri	Physics and Society Education	Helping Gen-Ed Students Become Scientifically Literate	Poster	PST2C-01	Dana Atrium	7/28/2009	8:30 PM
Carroll	James	Physics and Society Education	Simple Pumps for Accessing Clean Drinking Water	Poster	PST2C-02	Dana Atrium	7/28/2009	8:30 PM
Martinuk	Mathew	Physics and Society Education	Research Projects in an Environmentally Themed Introductory Physics Course	Poster	PST2C-03	Dana Atrium	7/28/2009	8:30 PM
Deardorff	Duane	Physics and Society Education	Climate Leadership and Energy Awareness Program at UNC-CH	Poster	PST2C-04	Dana Atrium	7/28/2009	8:30 PM
Aubrecht	Gordon	Physics and Society Education	Examining the Global Greenprint	Poster	PST2C-05	Dana Atrium	7/28/2009	8:30 PM
Lee	Scott	Physics and Life Science	Locomotion Speeds of Various Dinosaurs	Poster	PST2D-01	Dana Atrium	7/28/2009	8:30 PM
Waxman	Michael	Physics and Life Science	Investigating Blood Flow in Arteries: A Case Study for Pre-Med Students	Poster	PST2D-02	Dana Atrium	7/28/2009	8:30 PM
McCall	Richard	Physics and Life Science	Physics and Physiology: The Lens and the Ossicles	Poster	PST2D-03	Dana Atrium	7/28/2009	8:30 PM
Meredith	Dawn	Physics and Life Science	Strategies for Teaching Physics to Undergraduate Biologists	Poster	PST2D-04	Dana Atrium	7/28/2009	8:30 PM
Lockett	Phil	Physics and Life Science	Introductory Physics for Life Science Students	Poster	PST2D-05	Dana Atrium	7/28/2009	8:30 PM
Amador Kane	Suzanne	Physics and Life Science	Applications oriented Problems & Laboratories for Introductory Physics for Life Science Students	Poster	PST2D-06	Dana Atrium	7/28/2009	8:30 PM
Crouch	Catherine	Physics and Life Science	A Stand-Alone Course in Optics, Electricity, and Magnetism for the Life Sciences	Poster	PST2D-07	Dana Atrium	7/28/2009	8:30 PM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
Beverly	Nancy	Physics and Life Science	Evolving Reform of an IPLS course serving a significant Underprepared Student Population	Poster	PST2D-08	Dana Atrium	7/28/2009	8:30 PM
Masters	Mark	Introductory Physics	A Conceptual Course on LASERS for General Education	Poster	PST2E-01	Dana Atrium	7/28/2009	8:30 PM
Weber	Michael	Introductory Physics	The Usefulness of Mathematics Pre-tests in Introductory Calculus- Based Physics Courses	Poster	PST2E-02	Dana Atrium	7/28/2009	8:30 PM
Hu	Haiyun	Introductory Physics	Multiple Models and Methods for Physics Education in BIT	Poster	PST2E-03	Dana Atrium	7/28/2009	8:30 PM
Barrantes	Analia	Introductory Physics	A Mechanics ReView Course Employing Modeling Applied to Problem Solving	Poster	PST2E-04	Dana Atrium	7/28/2009	8:30 PM
Demaree	Dedra	Introductory Physics	Introductory Course Reform at Oregon State: Promoting Sustainable Reform	Poster	PST2E-05	Dana Atrium	7/28/2009	8:30 PM
Engelhardt	Paula	Introductory Physics	The S.E.N.S.E. Problem Solving Strategy	Poster	PST2E-06	Dana Atrium	7/28/2009	8:30 PM
Wu	Xiaoli	Introductory Physics	Introducing Contemporary Teaching and Learning Methods to Bilingual College Physics in China	Poster	PST2E-07	Dana Atrium	7/28/2009	8:30 PM
Liu	Zhaolong	Introductory Physics	Bilingual Education of College Physics for Engineers in China	Poster	PST2E-08	Dana Atrium	7/28/2009	8:30 PM
Pendrill	Ann-Marie	Introductory Physics	Earth Rotating Around Its Axis How Do We Know?	Poster	PST2E-09	Dana Atrium	7/28/2009	8:30 PM
Miranda	Enrique	Introductory Physics	A New Hydrostatic Paradox	Poster	PST2E-10	Dana Atrium	7/28/2009	8:30 PM
Timberlake	Todd	Introductory Physics	An Active Introduction to Entropy and Irreversibility for Liberal Arts Students	Poster	PST2E-11	Dana Atrium	7/28/2009	8:30 PM
Salgado	Roberto	Introductory Physics	Special Relativity Using Spacetime Trigonometry: A Short Course	Poster	PST2E-12	Dana Atrium	7/28/2009	8:30 PM
Jackson	David	Upper Division	Photon Quantum Mechanics in the Undergraduate Curriculum: Phase I	Poster	PST2F-01	Dana Atrium	7/28/2009	8:30 PM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
Galvez	Enrique	Upper Division	New Correlated-Photon Labs for Teaching Quantum Mechanics	Poster	PST2F-02	Dana Atrium	7/28/2009	8:30 PM
Waxman	Michael	Upper Division	Investigating Light Pressure Due to Rotations: 2D to 3D Transition Is Interesting!	Poster	PST2F-03	Dana Atrium	7/28/2009	8:30 PM
Tamres	David	Upper Division	Motions of a Small Black Hole Traveling Through the Earth	Poster	PST2F-04	Dana Atrium	7/28/2009	8:30 PM
Cumberledge	Stefanie	Upper Division	Liquid Drop Collisions	Poster	PST2F-05	Dana Atrium	7/28/2009	8:30 PM
Salgado	Roberto	Upper Division	Visualizing Proper Time in Special Relativity: The Accelerated Light- Clock	Poster	PST2F-06	Dana Atrium	7/28/2009	8:30 PM
Mungan	Carl	Upper Division	Entropy and Temperature of Radiation	Poster	PST2F-07	Dana Atrium	7/28/2009	8:30 PM
Miranda	Enrique	Upper Division	Between a Free Adiabatic Expansion and a Quasi-static One	Poster	PST2F-08	Dana Atrium	7/28/2009	8:30 PM
Masters	Mark	Upper Division	Active Learning Using Tutorials in Intermediate Optics	Poster	PST2F-09	Dana Atrium	7/28/2009	8:30 PM
Chasteen	Stephanie	Upper Division	Thinking Like a Physicist: Transforming Upper-Division Electricity & Magnetism	Poster	PST2F-10	Dana Atrium	7/28/2009	8:30 PM
Behringer	Ernest	Upper Division	The Capstone Project Course at Eastern Michigan University	Poster	PST2F-11	Dana Atrium	7/28/2009	8:30 PM
Turley	R. Steven	How to Prepare Undergraduates for Graduate School	Physics Research Experiences for Undergraduates	Poster	PST2F-12	Dana Atrium	7/28/2009	8:30 PM
Kaplan	David	How to Prepare Undergraduates for Graduate School	A Curriculum For A Third Semester Waves Course	Poster	PST2F-13	Dana Atrium	7/28/2009	8:30 PM
Sieradzan	Andrzej	Upper-level undergraduate	Two-laser spectroscopy in atomic cesium	Poster	PST2F-14	Dana Atrium	7/28/2009	8:30 PM
Teese	Robert	Technology in the Intro Course	LivePhoto Workshops on Active Learning with Video Analysis*	Poster	PST2G-01	Dana Atrium	7/28/2009	8:30 PM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
Song	Minyoung	Technology in the Intro Course	Multimodal Representation to Support Students to Conceptualize Submacroscopic Sizes	Poster	PST2G-02	Dana Atrium	7/28/2009	8:30 PM
Nakamura	Chris	Technology in the Intro Course	Social and Technological Challenges in Creating a Web- Based Tutoring System	Poster	PST2G-03	Dana Atrium	7/28/2009	8:30 PM
Masters	Mark	Technology in the Intro Course	Physics for Computer Graphics and Animation as General Education Courses	Poster	PST2G-04	Dana Atrium	7/28/2009	8:30 PM
Stewart	John	Technology in the Intro Course	Conceptual Electricity and Magnetism Problem Database (http://physinfo.uark.edu/inventory)	Poster	PST2G-05	Dana Atrium	7/28/2009	8:30 PM
Stewart	John	ComPADRE	PTEC.org The National Science Digital Library Collection on Teacher Preparation	Poster	PST2H-01	Dana Atrium	7/28/2009	8:30 PM
Christian	Wolfgang	ComPADRE	The Open Source Physics comPADRE Collection	Poster	PST2H-02	Dana Atrium	7/28/2009	8:30 PM
Mason	Bruce	ComPADRE	The Quantum Exchange: Teacher and Student Resources in Quantum Physics	Poster	PST2H-03	Dana Atrium	7/28/2009	8:30 PM
Mason	Bruce	ComPADRE	The Physical Sciences Resource Center: 12 Years of Growth	Poster	PST2H-04	Dana Atrium	7/28/2009	8:30 PM
Lee	Edward	ComPADRE	Physics to Go: Online Informal Physics Learning/Classroom Resource	Poster	PST2H-05	Dana Atrium	7/28/2009	8:30 PM
Kuo	Vince	ComPADRE	PER Community Enhancing Network for Teaching, Research, and Learning	Poster	PST2H-06	Dana Atrium	7/28/2009	8:30 PM
Gould	Harvey	ComPADRE	The Statistical and Thermal Physics Collection on comPADRE	Poster	PST2H-07	Dana Atrium	7/28/2009	8:30 PM
Ezrailson	Cathy	ComPADRE	What Can the Physics Front Digital Library Do for Me?	Poster	PST2H-08	Dana Atrium	7/28/2009	8:30 PM
Winch	David	ComPADRE	uCOMP, a comPADRE Collection, Devoted to Computational Physics	Poster	PST2H-09	Dana Atrium	7/28/2009	8:30 PM
Belloni	Mario	Teaching with Technology	Using Easy Java Simulations to Model a Rolling and Slipping Wheel	Poster	PST2I-01	Dana Atrium	7/28/2009	8:30 PM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
Lee	Albert	Teaching with Technology	Exchange of Clicker Questions for Your Introductory Physics Classes	Poster	PST2I-02	Dana Atrium	7/28/2009	8:30 PM
Gallis	Michael	Teaching with Technology	Ranking Tasks with the WebWork Quiz System	Poster	PST2I-03	Dana Atrium	7/28/2009	8:30 PM
Finley	James	Teaching with Technology	Developing Middle School Physics Concepts in the 21st Century Classroom	Poster	PST2I-04	Dana Atrium	7/28/2009	8:30 PM
Woodward	Roland	Teaching with Technology	A Video Analysis of Projectile MotionWithout Fancy Equipment	Poster	PST2I-05	Dana Atrium	7/28/2009	8:30 PM
Brahmia	Djamel	Teaching with Technology	Video Analysis of Motion So Easy, Even a Kid Can Do It	Poster	PST2I-06	Dana Atrium	7/28/2009	8:30 PM
Evans	Matt	Evaluation of Technology	Use of Student Response Systems in a Small Classroom	Poster	PST2J-01	Dana Atrium	7/28/2009	8:30 PM
Singh	Chandralekha	Evaluation of Technology	Evaluating Web-Based Tutorials to Develop Expertise in Introductory Students	Poster	PST2J-02	Dana Atrium	7/28/2009	8:30 PM
Corpuz	Edgar	Evaluation of Technology	The Use of PDAs in Physics and Physical Science Classes in a Predominantly Hispanic Institution	Poster	PST2J-03	Dana Atrium	7/28/2009	8:30 PM
Reay	Neville	Evaluation of Technology	Developing, Validating and Evaluating Clicker Question Sequences	Poster	PST2J-04	Dana Atrium	7/28/2009	8:30 PM
Quezada	Monica	Evaluation of Technology	Efficiency Analysis on the Use of Computer Simulations in the Abstraction of the Parabolic Motion Problem	Poster	PST2J-05	Dana Atrium	7/28/2009	8:30 PM
Gershman	Sophia	Evaluation of Technology	Andes Homework System in a High School Classroom	Poster	PST2J-06	Dana Atrium	7/28/2009	8:30 PM
van de Sande	Brett	Evaluation of Technology	Internal and External Assessments for the Andes Homework System	Poster	PST2J-07	Dana Atrium	7/28/2009	8:30 AM
Powell	Bob	Innovations in Teaching Astronomy	Good Astronomy on a Modest Budget	Poster	PST2K-01	Dana Atrium	7/28/2009	8:30 PM
Swift	Carrie	Innovations in Teaching Astronomy	Developing a Student-Run Observatory Program	Poster	PST2K-02	Dana Atrium	7/28/2009	8:30 PM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
LoPresto	Michael	Innovations in Teaching Astronomy	Turning a Lecture into a Tutorial	Poster	PST2K-03	Dana Atrium	7/28/2009	8:30 PM
Kim	In Sik	Innovations in Teaching Astronomy	How It Works to Use Hexagon Bulbs for a Light Source to Perform Solar Eclipse Demonstration for Students	Poster	PST2K-04	Dana Atrium	7/28/2009	8:30 PM
Timberlake	Todd	Innovations in Teaching Astronomy	Exploring the Copernican Revolution Through Computer Simulations	Poster	PST2K-05	Dana Atrium	7/28/2009	8:30 PM
Barbier	Shirley	Innovations in Teaching Astronomy	Extraordinary Matter: Visualizing Space Plasmas and Particles	Poster	PST2K-06	Dana Atrium	7/28/2009	8:30 PM
Geise	Kathleen	Innovations in Teaching Astronomy	Astronomy Labs Using Software and Video Analysis	Poster	PST2K-07	Dana Atrium	7/28/2009	8:30 PM
LoPresto	Michael	Innovations in Teaching Astronomy	Visual Assessments of Solar System Topics	Poster	PST2K-08	Dana Atrium	7/28/2009	8:30 PM
Hirshfeld	Alan	Innovations in Teaching Astronomy	The Story of Astronomy: An Activities-Based, Historical Approach to Classroom Instruction	Poster	PST2K-09	Dana Atrium	7/28/2009	8:30 PM
Docktor	Jennifer	Problem Solving	Assessment of Student Problem- Solving Processes	Poster	PST2L-01	Dana Atrium	7/28/2009	8:30 PM
Pawl	Andrew	Problem Solving	Toward an Inventory Assessing Expert Problem Solving Skills	Poster	PST2L-02	Dana Atrium	7/28/2009	8:30 PM
Mason	Andrew	Problem Solving	Attitudes Toward Problem Solving and Reflection Depending on Expertise	Poster	PST2L-03	Dana Atrium	7/28/2009	8:30 PM
Mateycik	Fran	Problem Solving	Students' Performance on Text Editing, Jeopardy, and Problem Posing Tasks*	Poster	PST2L-04	Dana Atrium	7/28/2009	8:30 PM
Ding	Lin	Problem Solving	From Conceptual Understanding to Problem Solving	Poster	PST2L-05	Dana Atrium	7/28/2009	8:30 PM
Hsu	Leon	Problem Solving	Providing Individualized Guidance and Feedback with Web-Based Problem-Solving Coaches	Poster	PST2L-06	Dana Atrium	7/28/2009	8:30 PM
Nguyen	Dong-Hai	Problem Solving	Students' Performance on Problem- Solving Tasks in Teaching/Learning Interviews*	Poster	PST2L-07	Dana Atrium	7/28/2009	8:30 PM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
Agrest	Mikhail	Problem Solving	Tell a Story, Make a Point: Storytelling in Teaching Physics.	Poster	PST2L-08	Dana Atrium	7/28/2009	8:30 PM
Etkina	Eugenia	Problem Solving	Getting Ready to Learn: The Power of Innovation	Poster	PST2L-09	Dana Atrium	7/28/2009	8:30 PM
Karelina	Anna	Problem Solving	Designing Experiment in Unfamiliar Content: Patterns in Student Metacognition	Poster	PST2L-10	Dana Atrium	7/28/2009	8:30 PM
Zeng	Chengeng	Problem Solving	Problem-Solving Skills in College Introductory Physics	Poster	PST2L-11	Dana Atrium	7/28/2009	8:30 PM
Goldman	Zachary	Problem Solving	Effects on Problem Solving Skills Due to Particular Styles of Questions	Poster	PST2L-12	Dana Atrium	7/28/2009	8:30 PM
Able	Daniel	Problem Solving	Examining Student Problem Solving in the Context of Model- Based Instruction	Poster	PST2L-13	Dana Atrium	7/28/2009	8:30 PM
Hobson	Art	General Topics of Interest in PER	The Surprising Effectiveness of College Scientific Literacy Courses	Poster	PST2M-01	Dana Atrium	7/28/2009	8:30 PM
Hazari	Zahra	General Topics of Interest in PER	Physics Education in an Interdisciplinary Science & Engineering Department	Poster	PST2M-02	Dana Atrium	7/28/2009	8:30 PM
Ives	Joss	General Topics of Interest in PER	Analysis of Cheat Sheets and Other Predictors of Exam Performance	Poster	PST2M-03	Dana Atrium	7/28/2009	8:30 PM
Engelhardt	Paula	General Topics of Interest in PER	How Readable Is Your Textbook?	Poster	PST2M-04	Dana Atrium	7/28/2009	8:30 PM
Dykstra	Dewey	General Topics of Interest in PER	College Teaching and the Development of Reasoning, the Book Really!1	Poster	PST2M-05	Dana Atrium	7/28/2009	8:30 PM
Cai	Tianfang	Scientific Reasoning, Expectations, and Gender Issues	Development of Standardized Instruments for Assessment of Scientific Reasoning	Poster	PST2N-01	Dana Atrium	7/28/2009	8:30 PM
Koenig	Kathleen	Scientific Reasoning, Expectations, and Gender Issues	Developing Scientific Reasoning as a Means of Addressing Student Retention*	Poster	PST2N-02	Dana Atrium	7/28/2009	8:30 PM
Shaw	Kimberly	Scientific Reasoning, Expectations, and Gender Issues	An Analysis of Scientific Reasoning Skills in Introductory Science Success	Poster	PST2N-03	Dana Atrium	7/28/2009	8:30 PM

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Wang	Jing	Scientific Reasoning, Expectations, and Gender Issues	Developmental Convergence of Scientific Reasoning Skills	Poster	PST2N-04	Dana Atrium	7/28/2009	8:30 PM
Feng	Xiumei	Scientific Reasoning, Expectations, and Gender Issues	Comparing Gender Differences in Introductory Physics Between U.S. and China	Poster	PST2N-05	Dana Atrium	7/28/2009	8:30 PM
Kohl	Patrick	Scientific Reasoning, Expectations, and Gender Issues	Gender Achievement Gaps in Introductory Physics at the Colorado School of Mines	Poster	PST2N-06	Dana Atrium	7/28/2009	8:30 PM
Kost	Lauren	Scientific Reasoning, Expectations, and Gender Issues	Unpacking the Gender Gap in Introductory Physics	Poster	PST2N-07	Dana Atrium	7/28/2009	8:30 PM
Han	Jing	Scientific Reasoning, Expectations, and Gender Issues	Exploring the Effects of Cultural Backgrounds on Student Attitudes on Learning	Poster	PST2N-08	Dana Atrium	7/28/2009	8:30 PM
Xiao	Yue	Scientific Reasoning, Expectations, and Gender Issues	Physics Education Research in Logic Thinking Capability of College Students	Poster	PST2N-09	Dana Atrium	7/28/2009	8:30 PM
Gurkas	Pinar	Scientific Reasoning, Expectations, and Gender Issues	Individual Differences in Temperament and Success in Science: Should we Care?	Poster	PST2N-10	Dana Atrium	7/28/2009	8:30 PM
Aryal	Bijaya	Scientific Reasoning, Expectations, and Gender Issues	Students' Expectations and Interests about Using Contexts in Physics Classroom	Poster	PST2N-11	Dana Atrium	7/28/2009	8:30 PM
Baily	Charles	Scientific Reasoning, Expectations, and Gender Issues	Varying Quantum Interpretations and Implications in Modern Physics Instruction	Poster	PST2N-12	Dana Atrium	7/28/2009	8:30 PM
		Teaching Physics Around the World: Part I		Inv/Con	CE	Chemistry 1640	7/29/2009	4:30 PM
Wittmann	Michael	Teaching Physics Around the World: Part I	HowSystems, Dependencies, and Constraints Affect Our Physics Education Research	Invited	CE01	Chemistry 1640	7/29/2009	4:30 PM
Crouse	Andrew	Teaching Physics Around the World: Part I	111 Degrees Apart: Teaching Physics in Fiji and Venezuela	Invited	CE02	Chemistry 1640	7/29/2009	5:00 PM
Laws	Priscilla	Teaching Physics Around the World: Part I	PHYSWARE: Teaching Mechanics in Developing Countries	Invited	CE03	Chemistry 1640	7/29/2009	5:30 PM
		Status of Instructional Resource Specialists		Panel	GA	Chemistry 1200	7/29/2009	10:00 AM

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Torres-Isea	Ramona	Status of Instructional Resource Specialists		Panel	GA01	Chemistry 1200	7/29/2009	10:00 AM
		Getting Started in Physics Education Research		Inv	GB	Chemistry 1210	7/29/2009	10:00 AM
Rebello	N. Sanjay	Getting Started in Physics Education Research	Research in Conceptual UnderstandingFoundations and Future Challenges*	Invited	GB01	Chemistry 1210	7/29/2009	10:00 AM
Maloney	David	Getting Started in Physics Education Research	Getting Started in Physics Education Research: Problem Solving	Invited	GB02	Chemistry 1210	7/29/2009	10:30 AM
Hammer	David	Getting Started in Physics Education Research	How Students Understand Knowledge and Learning	Invited	GB03	Chemistry 1210	7/29/2009	11:00 AM
Foster	Thomas	Getting Started in Physics Education Research	Legal and Ethical Concerns when Conducting PER	Invited	GB04	Chemistry 1210	7/29/2009	11:30 AM
		The Changing Community of Physics: Resources and Programs that Promote Inclusion and Diversity	The Changing Community of Physics: Resources and Programs that Promote Inclusion and Diversity	Panel	GC	Chemistry 1300	7/29/2009	10:00 AM
Stith	James	The Changing Community of Physics: Resources and Programs that Promote Inclusion and Diversity	Teaching for Retention	Panel	GC01	Chemistry 1300	7/29/2009	10:00 AM
Hodapp	Theodore	The Changing Community of Physics: Resources and Programs that Promote Inclusion and Diversity	Programs and Resources of the American Physical Society	Panel	GC02	Chemistry 1300	7/29/2009	10:15 AM
Smith Jr	Daniel	The Changing Community of Physics: Resources and Programs that Promote Inclusion and Diversity	AAPT-Sponsored Activities Supporting Diversity	Panel	GC03	Chemistry 1300	7/29/2009	10:30 AM

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White	Gary	The Changing Community of Physics: Resources and Programs that Promote Inclusion and Diversity	Engaging physics students in diversity conversations with SPS	Panel	GC04	Chemistry 1300	7/29/2009	10:45 AM
Sabella	Mel	The Changing Community of Physics: Resources and Programs that Promote Inclusion and Diversity	Issues of Diversity in Physics Education Research: A Report from the 2008 PER Conference	Panel	GC05	Chemistry 1300	7/29/2009	11:00 AM
Williams	Quinton	The Changing Community of Physics: Resources and Programs that Promote Inclusion and Diversity	Report from AIP Liaison Committee on Underrepresented Minorities in Physics	Panel	GC06	Chemistry 1300	7/29/2009	11:15 AM
		Physics Education Research Around the World		Inv/Con	GD	Chemistry 1400	7/29/2009	10:00 AM
Rump	Camilla	Physics Education Research Around the World	Research of Reform: Developing Teaching and Teaching Capabilities	Invited	GD01	Chemistry 1400	7/29/2009	10:00 AM
Alarcon	Hugo	Physics Education Research Around the World	Improving Concept Understanding and Attitudes Through Performing Modeling Instruction	Invited	GD02	Chemistry 1400	7/29/2009	10:30 AM
Jolly	Pratibha	Physics Education Research Around the World	Interactive Laboratory Tutorials: Learning Art of Measurement with Simple Hands-On Activities	Invited	GD03	Chemistry 1400	7/29/2009	11:00 AM
Kapon	Shulamit	Physics Education Research Around the World	Learning Physics from Public Physics Lectures: A learning Experiment	Contributed	GD04	Chemistry 1400	7/29/2009	11:30 AM
Jung	Kyesam	Physics Education Research Around the World	Neuroscientific Approach to Science Education About Cognitive Conflict	Contributed	GD05	Chemistry 1400	7/29/2009	11:40 AM
Tarabek	Paul	Physics Education Research Around the World	Cognitive Architecture of Common and Scientific Concepts	Contributed	GD06	Chemistry 1400	7/29/2009	11:50 AM
		Tutorials in Intermediate Mechanics		Panel	GE	Chemistry 1640	7/29/2009	10:00 AM
		Inservice and Preservice Teacher Preparation		Con	GF	Dana 1040	7/29/2009	10:00 AM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
Sabella	Mel	Inservice and Preservice Teacher Preparation	Building a Supportive, Sustainable, Science Teaching Community in the Urban Environment	Contributed	GF01	Dana 1040	7/29/2009	10:00 AM
Meltzer	David	Inservice and Preservice Teacher Preparation	Research Themes in Physics- Teacher Preparation*	Contributed	GF02	Dana 1040	7/29/2009	10:10 AM
Stewart	Gay	Inservice and Preservice Teacher Preparation	College Ready: \$7M NSF-MSP Project to Prepare Teachers	Contributed	GF03	Dana 1040	7/29/2009	10:20 AM
Murphy	Sytil	Inservice and Preservice Teacher Preparation	Study on How College Science Courses Influence Elementary School Teachers*	Contributed	GF04	Dana 1040	7/29/2009	10:30 AM
Ramlo	Susan	Inservice and Preservice Teacher Preparation	Improving In-Service Science Teachers' Conceptual Understanding of Force and Motion	Contributed	GF05	Dana 1040	7/29/2009	10:40 AM
Harlow	Danielle	Inservice and Preservice Teacher Preparation	Professional Development Through Parallel Teaching and Learning Experiences	Contributed	GF06	Dana 1040	7/29/2009	10:50 AM
Tosa	Sachiko	Inservice and Preservice Teacher Preparation	Effective Use of Data-Loggers to Enhance Teachers' Attitudes Towards Inquiry	Contributed	GF07	Dana 1040	7/29/2009	11:00 AM
Jaronski	Walter	Inservice and Preservice Teacher Preparation	Science Courses for In-Service Pre- College Teachers	Contributed	GF08	Dana 1040	7/29/2009	11:10 AM
Garik	Peter	Inservice and Preservice Teacher Preparation	Professional Development and the Conceptual History of Physics	Contributed	GF09	Dana 1040	7/29/2009	11:20 AM
Cui	Lili	Inservice and Preservice Teacher Preparation	A College-Wide Graduate Teaching Assistant Training Course	Contributed	GF10	Dana 1040	7/29/2009	11:30 AM
Spike	Benjamin	Inservice and Preservice Teacher Preparation	Research on Training Undergraduate and Graduate sStudent instructors in Tutorials	Contributed	GF11	Dana 1040	7/29/2009	11:40 AM
Gray	Kara	Inservice and Preservice Teacher Preparation	Analysis of Former Learning Assistants' Views on Teaching and Learning	Contributed	GF12	Dana 1040	7/29/2009	11:50 AM
		Upper Division Laboratories: Ideas, Equipment, and Techniques: Part I		Con	GG	Dennison 170	7/29/2009	10:00 AM
Zypman	Fredy	Upper Division Laboratories: Ideas, Equipment, and Techniques: Part I	Determination of g with a Microphone	Contributed	GG01	Dennison 170	7/29/2009	10:00 AM

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Rabchuk	James	Upper Division Laboratories: Ideas, Equipment, and Techniques: Part I	A One-Dimensional Mechanical Analog of the RF Paul Ion Trap	Contributed	GG02	Dennison 170	7/29/2009	10:10 AM
Essick	John	Upper Division Laboratories: Ideas, Equipment, and Techniques: Part I	Determining the Muon Mass in an Instructional Laboratory	Contributed	GG03	Dennison 170	7/29/2009	10:20 AM
Sharma	Natthi	Upper Division Laboratories: Ideas, Equipment, and Techniques: Part I	Study of Electric and Magnetic Dipole Radiation Via Scattering from Nanoparticles	Contributed	GG05	Dennison 170	7/29/2009	10:40 AM
Huber	Thomas	Upper Division Laboratories: Ideas, Equipment, and Techniques: Part I	Introduction to Lock-In Amplifiers in an Advanced Lab Course	Contributed	GG06	Dennison 170	7/29/2009	10:50 AM
		Cutting-Edge Research at the University of Michigan		Inv	GH	Dennison 182	7/29/2009	10:00 AM
Pierce	Aaron	Cutting-Edge Research at the University of Michigan	Theoretical Research at the University of Michigan	Invited	GH01	Dennison 182	7/29/2009	10:00 AM
Leanhardt	Aaron	Cutting-Edge Research at the University of Michigan	Permanent Electric Dipole Moments and the Search for New Physics	Invited	GH02	Dennison 182	7/29/2009	10:30 AM
Tarlé	Gregory	Cutting-Edge Research at the University of Michigan	Particle Physics and Astrophysics Research at the University of Michigan	Invited	GH03	Dennison 182	7/29/2009	11:00 AM
Kurdak	Cagliyan	Cutting-Edge Research at the University of Michigan	Condensed Matter Physics at the University of Michigan	Invited	GH04	Dennison 182	7/29/2009	11:30 AM
		High School Teachers at CERN		Panel	НА	Chemistry 1200	7/29/2009	12:45 PM
Glover	Marla	High School Teachers at CERN	High School Teachers at CERN: Putting New Physics into the Curriculum	Panel	HA01	Chemistry 1200	7/29/2009	12:45 PM
		Upper Division Laboratories: Ideas, Equipment, and Techniques: Part II		Inv/Con	НВ	Chemistry 1210	7/29/2009	12:45 PM
Marcum	S. Douglas	Upper Division Laboratories: Ideas, Equipment, and Techniques: Part II	Creating, Implementing, and Sustaining an Advanced Undergraduate Laboratory Course	Invited	HB01	Chemistry 1210	7/29/2009	12:45 PM

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Last Name	First Name	Sessname	Title	Туре	Code	Room	Date	Time
Hudek	Dean	Upper Division Laboratories: Ideas, Equipment, and Techniques: Part II	Creating a Relatively Low-Cost Single Photon Interference Device (\$3-\$5K)	Invited	HB02	Chemistry 1210	7/29/2009	1:15 PM
Didis	Nilufer	Upper Division Laboratories: Ideas, Equipment, and Techniques: Part II	Students' Motivation Toward Modern Physics Laboratory Experiments	Contributed	HB03	Chemistry 1210	7/29/2009	1:45 PM
Chen	Mingnan	Upper Division Laboratories: Ideas, Equipment, and Techniques: Part II	Physics by Inquiry Teaching Method in Modern Physics Experiment Course	Contributed	HB04	Chemistry 1210	7/29/2009	1:55 PM
Seger	Janet	Upper Division Laboratories: Ideas, Equipment, and Techniques: Part II	Mastery-Based Assessment in Modern Physics Laboratory	Contributed	HB05	Chemistry 1210	7/29/2009	2:05 PM
Li	Jing	Upper Division Laboratories: Ideas, Equipment, and Techniques: Part II	Design and Development on Web- based Virtual Lab Environment	Contributed	HB06	Chemistry 1210	7/29/2009	2:15 PM
Fang	Kai	Upper Division Laboratories: Ideas, Equipment, and Techniques: Part II	The Application of Computer Network System in Physics Experiment Course	Contributed	HB07	Chemistry 1210	7/29/2009	2:25 PM
Grove	Timothy	Upper Division Laboratories: Ideas, Equipment, and Techniques: Part II	Modifying the Optics Laboratory for Greater Conceptual Understanding	Contributed	HB08	Chemistry 1210	7/29/2009	2:35 PM
		Computer Modeling in the Introductory Course		Inv/Posters	HC	Chemistry 1300	7/29/2009	12:45 PM
Panoff	Robert	Computer Modeling in the Introductory Course	Supporting Multiple Representation Through Dynamic Re-Presentation in Physics Models	Invited	HC01	Chemistry 1300	7/29/2009	12:45 PM
Titus	Aaron	Computer Modeling in the Introductory Course	Instantiating a New Class Teaching Computational Physics in Introductory, Calculus-Based Physics	Invited	HC02	Chemistry 1300	7/29/2009	1:15 PM
Brown	Douglas	Computer Modeling in the Introductory Course	Video Modeling with Tracker	Invited	HC03	Chemistry 1300	7/29/2009	1:45 PM
Carvalho	M. Juliana	Computer Modeling in the Introductory Course	Computer Modeling in an Introductory Physics Course	Inv/Poster	HC04	Chemistry 1300	7/29/2009	2:15 PM

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Last Name	First Name	Sessname	Title	Туре	Code	Room	Date	Time
		Best Practices for Teaching with Technology		Con	HD	Chemistry 1400	7/29/2009	12:45 PM
Maronde	Dan	Best Practices for Teaching with Technology	Implementation of Elements of the Physics Suite at UCF	Contributed	HD01	Chemistry 1400	7/29/2009	12:45 PM
Uran	Serif	Best Practices for Teaching with Technology	Interactive Physics Education with Clickers	Contributed	HD02	Chemistry 1400	7/29/2009	12:55 PM
Li	Pengfei	Best Practices for Teaching with Technology	Developing and Assessing an In- class Response System at Savannah State University	Contributed	HD03	Chemistry 1400	7/29/2009	1:05 PM
Rees	Lawrence	Best Practices for Teaching with Technology	Dynamical Animations of Electric and Magnetic Fields of Multiple Charges	Contributed	HD04	Chemistry 1400	7/29/2009	1:15 PM
Podolefsky	Noah	Best Practices for Teaching with Technology	Analogy use in PhET Simulation Design	Contributed	HD05	Chemistry 1400	7/29/2009	1:25 PM
Marsh	Collette	Best Practices for Teaching with Technology	Flash Solutions to Reinforce Problem-Solving Techniques	Contributed	HD06	Chemistry 1400	7/29/2009	1:35 PM
Mzoughi	Taha	Best Practices for Teaching with Technology	WebTOP: X3D Based Interactive Simulations for Waves and Optics instruction	Contributed	HD07	Chemistry 1400	7/29/2009	1:45 PM
Rupright	Mark	Best Practices for Teaching with Technology	Measuring Systematic Error With Curve Fits	Contributed	HD08	Chemistry 1400	7/29/2009	1:55 PM
Rand	Kendra	Best Practices for Teaching with Technology	Adopt-a-Physicist: Using Technology to Help Students Explore Career Options	Contributed	HD09	Chemistry 1400	7/29/2009	2:05 PM
Klassen	David	Best Practices for Teaching with Technology	Online Assessments Using Blackboard-CE	Contributed	HD10	Chemistry 1400	7/29/2009	2:15 PM
Lambourne	Robert	Best Practices for Teaching with Technology	E-Learning in Physical Science through Sport	Contributed	HD11	Chemistry 1400	7/29/2009	2:25 PM
Hong	Yuanjia	Best Practices for Teaching with Technology	Using Document camera for interactive learning.	Contributed	HD12	Chemistry 1400	7/29/2009	2:35 PM
Wu	Xiaoli	Teaching Physics Around the World: Part II	Introducing Contemporary Teaching and Learning Methods to Bilingual College Physics in China	Contributed	HE08	Chemistry 1640	7/29/2009	1:55 PM

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Last Name	First Name	Sessname	Title	Туре	Code	Room	Date	Time
WU	Helan	Teaching Physics Around the World: Part II	Research of Physics Learning and Teaching Supported by Mobile Technology	Contributed	HE09	Chemistry 1640	7/29/2009	2:05 PM
Ni	Chen	Teaching Physics Around the World: Part II	Instructional Design of Physics Experiment Based on Science Workshop System	Contributed	HE10	Chemistry 1640	7/29/2009	2:15 PM
		Innovations in the TYC Curriculum		Inv/Con	HF	Dana 1040	7/29/2009	12:45 PM
Christensen	Erik	Innovations in the TYC Curriculum	Adaptable Curriculum: Engaging Millennial Generation Students	Invited	HF01	Dana 1040	7/29/2009	12:45 PM
Reinhard	Kent	Innovations in the TYC Curriculum	The Engaging Physics Lab Using LabView	Invited	HF02	Dana 1040	7/29/2009	1:15 PM
Azima	Alex	Innovations in the TYC Curriculum	Using Mini-Investigations, Writing, and Short Presentations to Promote Evidence-Based Reasoning	Contributed	HF03	Dana 1040	7/29/2009	1:45 PM
Thomas	Frederick	Innovations in the TYC Curriculum	Connecting Math, Physics, Engineering, and Technology	Contributed	HF04	Dana 1040	7/29/2009	1:55 PM
Geppert	Margaret	Innovations in the TYC Curriculum	Using the Box to Help Students Understand Vector Addition	Contributed	HF05	Dana 1040	7/29/2009	2:05 PM
Weaver	David	Innovations in the TYC Curriculum	Failing the Test	Contributed	HF06	Dana 1040	7/29/2009	2:15 PM
Jaffer	Karim	Innovations in the TYC Curriculum	Building a Better Learner: Pedagogical Changes Entering TYC Physics	Contributed	HF07	Dana 1040	7/29/2009	2:25 PM
Bapat	Madhuri	Innovations in the TYC Curriculum	Symmetry and Patterns in Rangolee Art from India	Contributed	HF08	Dana 1040	7/29/2009	2:35 PM
		PERC Bridging Session		Inv	HG	Chemistry 1800	7/29/2009	3:30 PM
Posner	Michael	PERC Bridging Session	Bridging Cognitive and Neural Aspects of Classroom Learning	Invited	HG01	Chemistry 1800	7/29/2009	3:30 PM
diSessa	Andrea	PERC Bridging Session	Causality in Pieces: The Construction of Causal Schemes	Invited	HG02	Chemistry 1800	7/29/2009	4:00 PM

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Sfard	Anna	PERC Bridging Session	Moving Between Discourses: From Learning as Acquisition to Learning as Participation	Invited	HG03	Chemistry 1800	7/29/2009	4:30 PM
		Teacher Preparation: Research on Teacher Quality Instruments		Inv/Con	HH	Dennison 182	7/29/2009	12:45 PM
Otero	Valerie	Teacher Preparation: Research on Teacher Quality Instruments	Measuring Teacher Quality with the FASCI Instrument: A Multi- University Study	Invited	HH01	Dennison 182	7/29/2009	12:45 PM
Smith	Sean	Teacher Preparation: Research on Teacher Quality Instruments	Measuring Content Knowledge of Middle Grades Teachers	Invited	HH02	Dennison 182	7/29/2009	1:15 PM
Minstrell	Jim	Teacher Preparation: Research on Teacher Quality Instruments	Assessing Teachers' Formative Assessment Skills and Knowledge	Invited	HH03	Dennison 182	7/29/2009	1:45 PM
Talbot	Robert	Teacher Preparation: Research on Teacher Quality Instruments	Measuring Physics Teacher Knowledge: Domain-General or Domain-Specific?	Contributed	HH04	Dennison 182	7/29/2009	2:15 PM
		Post Deadline Session		Contributed	HI	Dennison 170	7/29/2009	12:45 PM
Rankins	Claudia	Post Deadline Session	Preparing Undergraduate Physics Majors at Hampton University for Graduate School	Contributed	HI01	Dennison 170	7/29/2009	12:45 PM
Bousquet	Benjamin	Post Deadline Session	Modeling a Water Balloon Slingshot in the Introductory Physics Laboratory	Contributed	HI02	Dennison 170	7/29/2009	12:55 PM
Schuster	David	Post Deadline Session	Cognition of an ?expert? tackling an unfamiliar conceptual physics problem.	Contributed	HI03	Dennison 170	7/29/2009	1:05 PM
Kaltakci	Derya	Post Deadline Session	Diagnosis of Misconceptions with Multiple-Tier Tests	Contributed	HI04	Dennison 170	7/29/2009	1:15 PM
Thomas	Kevin	Post Deadline Session	Fighting Wrong Beliefs: An Assessment on the Students? Understanding of Science vs. Pseudoscience	Contributed	HI05	Dennison 170	7/29/2009	1:25 PM
Perkins	Matthew	Post Deadline Session	Calibrating a Slingshot Using Video Analysis	Contributed	HI06	Dennison 170	7/29/2009	1:35 PM
Hollmann	Greg	Post Deadline Session	Attitudes of non-science major undergraduate students towards studying physics, physics lab, and physics lecture	Contributed	HI07	Dennison 170	7/29/2009	1:45 PM

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Last Name	First Name	Sessname	Title	Type	Code	Room	Date	Time
Schunicht	Shannon	Post Deadline Session	Physics Formula RecollectionThrough a Never Before Seen Mnemonic Technique	Contributed	HI08	Dennison 170	7/29/2009	1:50 PM
Cole	К	Plenary	"Something Incredibly Wonderful Happens": Frank Oppenheimer and the World He Made Up	Invited	P6	Mendelssohn	7/29/2009	9:00 AM
		Frank Oppenheimer		Plenary	P6	Mendelssohn	7/29/2009	9:00 AM

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