

Time	Session 1 ROOM 338	Session 2 ROOM 333	Session 3 ROOM 331	Session 4 ROOM 223
9:00 – 9:15	<i>Opportunities for HS Research on a Budget</i> Bill Combs Crawfordsville H.S.	<i>Vector Components + Low Math Level = Pac-Man Rule.</i> Rob Spencer, West Lafayette Jr/Sr H.S.	<i>Photosynthesis: Is it Physics?</i> Dr. Sergei Savikhin, Purdue University (triple session)	<i>Tour Purdue Rare Isotope Measurement Lab (PRIME Lab)</i> David Elmore, Purdue University
9:20 – 9:35	<i>Looking for Fault Lines Using P-Wave Anomalies</i> Robert Campbell & Ross Robertson, Students, Crawfordsville H.S.	<i>. Energy Pie Charts</i> Rob Spencer, West Lafayette Jr/Sr High School		NOTE: David Elmore’s PRIME Lab tours will occur each hour, on the hour. Gather in assigned room on the hour.
9:40 – 9:55	<i>Relationship Study of VLFs and Specific Weather Patterns</i> Lance Waltrop, Student, Crawfordsville H.S.	<i>Energy Bar Charts</i> Hugh Ross, Noblesville HS		
10:00 – 10:15	<i>Undergraduate Pulse NMR Experiments</i> Gifford Brown, U. of Evansville	<i>Critical Thinking & Independent Learning in AP Physics Mechanics</i> Craig Smiley, Harrison H. S., West Lafayette	<i>National Center for Learning and Teaching in Nanoscale Science and Engineering</i> Nick Giordano, Purdue University (double session)	
10:20 – 10:35	<i>Design & Development of a Multi-Detector Array of PIN Diodes to Monitor Beam Uniformity in High-Energy Gamma-Ray Cancer Treatment Planning</i> Ali Razavieh & Paul Errington, Ball State U.	<i>Santa’s Sleigh Lab or How to Show Students That Forces Are Fun!</i> Elaine Gwinn, Shenandoah H. S., Middletown		
10:35-10:50	Break	Break	Break	
10:50 – 11:05	<i>Strings, Branes, Extra Dimensions, & Things</i> Gerald P. Thomas, Ball State U.	<i>Electric Field Mapping with the PC Oscilloscope</i> J. Robert Seal, Cathedral H. S., Indianapolis	<i>Dialogue between “the high school” and “the university”</i> Facilitated by: Julie Conlon Purdue University Outreach Coordinator	
11:10 – 11:25	<i>Lessons Learned in a Unique General Physics Laboratory</i> David Maloney, IU/PU Fort Wayne	<i>The Ubiquitous Quantum & Forgotten Gravity</i> Jonathan Brooks	<i>Indiana High School Physics End-of-Course Assessment Results 2005</i> Mike Wolter, Muncie Central H. S. (double session)	
11:30 – 11:45	<i>Experimental Error is a Number: Getting Students to Think Quantitatively</i> Mary V. Frohne, Holy Cross College	<i>Truly Integrating the Integrated Chemistry/Physics Curriculum</i> Cathy Biller & Stacy McCormack, Elkhart Central (double session)		
11:50 – 12:05	<i>Student Preparation & Performance in a First Semester Algebra-Based Physics Course</i> Robert Hill, Ball State U.		<i>Astrophysical Jets Associated with Supermassive Black Holes</i> Matt Lister, Purdue University (double session)	
12:10 – 12:25	<i>Testing for Yearly Improvement Using Successive Scores on Indiana’s ISTEP Exams</i> David Ober, John Beekman, & Dale Umbach, Ball State U.	<i>What Should A High School Physics Course Look Like?</i> Mervin Koehlinger, Concordia Lutheran H.S., Fort Wayne (double session)		<i>Computer Simulations with Physics Content</i> Tim Duman University of Indianapolis