Poster session I: 11am-12pm (Display board #s indicated next to titles)

Epistemological Framing and External Knowledge in Physics Problem Solving - # 5
PHAS: Sandy Martinuk

Shifting to a Copernican model of the Solar System by shifting away from a Copernican model of teaching - #3
PHAS: Peter Newbury

Physics & Astronomy TA Professional Development Program - #6
PHAS: Jonathan Massey-Allard, Sandra Meyers and Natasha Holmes

Assessment of Learning in a Liquid-Liquid Extraction Experiment and Technical Skill in an Undergraduate Chemistry Laboratory - #2
CHEM: Nicholas R. Mah

The Operon Concept Inventory: Measuring Targeted Learning Gains in Microbiology - #12
LS: Jared Taylor

Measuring Student Confidence and Balance of Lab Material in a Computer Science Course - #15
CPSC: Ryan Golbeck

MAPS, Mathematics Attitudes Perceptions Survey - #13
MATH: Warren Code, Joseph Lo, Sandi Merchant

Basic Skills in Mathematics - #16
MATH: Joseph Lo, Costanza Piccolo

Assessing Basic Skills for Mathematical Proof - #14
MATH: Sandi Merchant, Andrew Rechnitzer

Promoting & Measuring General Scientific Reasoning Expertise of 2nd Year Students - #8
EOS: Francis M. Jones, Mark Jellinek, & Michael G. Bostock

Measuring Novices’ Field Mapping Abilities Using an In-class Exercise Based on Expert Task Analysis - #9
EOS: Josh Caulkins

Geologic Expertise and Field Mapping: Lessons from a 3rd year Undergraduate Field School - #11
EOS: Josh Caulkins

The Observation Feedback Loop: Using Classroom Observation Data to Improve Student Engagement - #4
EOS: Erin Lane

Poster Session II: 12:30-1:30pm (Display board #indicated next to titles)

Tracking Students’ Knowledge of Electricity and Magnetism from 1st to 3rd Year - #1
PHAS: Jim Carolan

On Guided Invention Activities that Support Scientific Reasoning and Domain Learning - #5
PHAS: Natasha Holmes, Ido Roll, James Day & Doug Bonn

Learning Science by Doing Science -- Designing, Executing, and Analyzing Experiments in Physics 100 Labs - #3
PHAS: Ido Roll

Evaluation of Learning Gains in CHEM 123 students performing Experiment 12 - pH in Blood - #4
CHEM: Samantha D'souza

Measuring Learning Gain in a Transformed Introductory Ecology Course - #17
LS: Malin Hansen

Improving Student Engagement and Self-Assessment Through Gamification - #13
CPSC: Kim Voll & Andre Malan

Revitalizing Labs: Lessons from 2.5 Years of Iterative Development and Assessment of Digital Logic Labs - #10
CPSC: Elizabeth Patitsas & Steve Wolfman

Considering the Student Perspective: Factors that Undergraduates Perceive as Influential to their Academic Performance in Science - #12
CWSEI: Ashley Welsh

How do Novices Spend Time Programming with Matlab - #18
MATH: Warren Code

Redesign of Computer Labs for Engineering Students in a Linear Algebra Course - #18
MATH: Warren Code, Costanza Piccolo

Problem-solving Workshops in First-year Calculus - #16
MATH: Warren Code, Costanza Piccolo

Tracking student progress with a mineralogy/petrology concept inventory - #7
EOS: Alison Jolley, Sara Harris, & Mary Lou Bevier

Student Evaluations of Teaching: How have EOS-SEI courses fared - #9
EOS: Sara Harris