Last Name	Name	Application Name	Assigned to Session	Presentation Time and Code	Date
Adams	Mark	High Energy Physics Experiments in the Classroom	21st Century Physics and Astronomy in the Classroom- Part 2	SUN-CA-03 (2:36 to 3:00 PM)	1/7/2024
Adkins	Kevin	Eastern Kentucky Light at Night Education Project	Some Interesting Bauder Fund Projects	MON-HG-01 (3:00 to 3:24 PM)	1/8/2024
Agu	Philomena	Teaching Physics Concepts and Science Methods with Children's Literature Non-Trade Book	Innovations in K-12 Teacher Professional Learning	SUN-DE-02 (3:12 to 3:24 PM)	1/7/2024
Allain	Rhett	Physics Engagement: Exploring the Best of WIRED and YouTube	Viral Physics with YouTube, Blogs and Other Media	MON-EB-02 (9:24 to 9:48 AM)	1/8/2024
Andeen	Karen	Seminars to incorporate non-technical skills into the physics curriculum at Marquette University	PER: Impact of Varying Pedagogy	MON-GD-02 (2:12 to 2:24 PM)	1/8/2024
Anderson	Jon	Physics on the Cheap	Integrating Lecture and Lab- Part 1- Interactive Session	SUN-CG-01 (2:00 to 2:24 PM)	1/7/2024
Antimirova	Tetyana	Case Study Bringing Real-Life Scenario into Introductory Physics Curriculum	Innovations in the Intro Classroom	TUE-JE-01 (11:00 to 11:12 AM)	1/9/2024
Artz	Jerry	Revolutionizing Tutoring: Hamline University’s AI-Enhanced STEM-Start Program for High Schoolers	AI in Physics Education- Part 1	SUN-CB-05 (2:48 to 3:00 PM)	1/7/2024
Bagley	Eldred 'Jay'	Physics of Flying Unmanned Aircrafts	Some Interesting Bauder Fund Projects	MON-HG-02 (3:24 to 3:48 PM)	1/8/2024
Bailey	Janelle	A Review of Astronomy Education Research: 20 Years Later	Astronomy Education Research	MON-HA-01 (3:00 to 3:12 PM)	1/8/2024
Baker	D.	Splitting the Classroom: Increasing Active Engagement and Student Understanding	Innovations in the Intro Classroom	TUE-IE-04 (11:36 to 11:48 AM)	1/9/2024
Bao	Lei	The iSTAR Framework for Modeling and Assessing Scientific Reasoning	PER: Assessment Tools	MON-HD-04 (3:36 to 3:48 PM)	1/8/2024
Bao	Lei	The Conceptual Framework Model for Knowledge Integration and Deep Learning in Physics	Physics Education Research (PER) Posters II	SUN-POSE-708 (4:00 to 5:00 PM)	1/7/2024
Barbieri	Christopher	Comsol Multiphysics model development for Materials Science Curriculum	Intro & Beyond Posters II	SUN-POSB-414 (4:00 to 5:00 PM)	1/7/2024
Barnett Dreyfuss	Bree	Everyday Actions in the High School Classroom	Inclusive Actions for Physics Clasrooms of All Levels	TUE-ID-01 (10:00 to 10:24 AM)	1/9/2024
Bauer	Wolfgang	Hybrid teaching: A tale of two populations	Hybrid Physics Instruction-Part 1	SUN-AB-01 (9:00 to 9:24 AM)	1/7/2024
Bauman	Lauren	Gaining Power and Shaping Space through “helping” in intro Physics Classrooms	DEI Posters I	SAT-POSC-605 (6:00 PM to 7:00 PM)	1/6/2024
Bentley	Sean	Optical Fourier Transforms & Phase	Integrating Lab and Lecture- Part 2	SUN-CC-02 (2:12 to 2:24 PM)	1/9/2024
Berman	Paul	Scattering of Identical Particles by A One-Dimensional Delta Function Barrier Potential: The Role of Statistics	Highlights from the AAPT Journals: TPT and AJP- Part 2	MON-FG-01 (10:00 to10:24 AM)	1/8/2024
Beverly	Nancy	Learn by doing in an IPLS course	Integrating Lab and Lecture- Part 2	TUE-IC-03 (10:24 to 10:36 AM)	1/9/2024
Beverly	Nancy	IPLS Student Difficulties with Algebraic Ratios	Teaching the IPLS- Poster Session	MON-HE-01 (3:00 to 4:00 PM)	1/8/2024
Beverly	Nancy	Video Analysis of 2D Human Motion	Using Video Analysis in Intro Labs	MON-FB-01 (10:00 to 10:12 AM)	1/8/2024
Birriel	Ignacio	Using Gelatin to Measure the Mass Attenuation Coefficient of Water	K-12 Posters II	SUN-POSF-308 (4:00 to 5:00 PM)	1/7/2024
Birriel	Ignacio	Mass Attenuation Coefficients of Humimic Gels: A Medical Physics Project	Teaching the IPLS- Poster Session	MON-HE-01 (3:00 to 4:00 PM)	1/8/2024
Bishop	Bryn	Modeling the Shape of Earth's Orbit	Strategies to Support K-12 Physics Learning	SUN-CE-03 (2:24 to 2:36 PM)	1/7/2024
Blanchard	Gerard	ChatGPT Joins the Physics Study Session	AI in Physics Education- Part 1	SUN-CB-01 (2:00 to 2:12 PM)	1/7/2024

Blinkouski	Andrei	First Year of Teaching Mechanics and Calculus-I Together within the NSF S-STEM Project	PER: Impact of Varying Pedagogy	MON-GD-01 (2:00 to 2:12 PM)	1/8/2024
Blue	Jennifer	Merging Attributes and Results in Education and Careers (MARIE-C)	PER: Addressing Norms and Marginalization	MON-ED-02 (9:12 to 9:24 AM)	1/8/2024
Blue	Jennifer	Developing a Survey to Measure Academic Burnout in Physics Students	PER: Assessment Tools	MON-HD-03 (3:24 to 3:36 PM)	1/8/2024
Bogdan	Abigail	Adapting a Calculus-Based Physics Course for a Blind Student	Practical DEI for Teaching- Part 1	SUN-AD-05 (9:48 to 10:00 AM)	1/7/2024
Bosch	Salvador	Light Reflection and Refraction. An Approach with Inhomogeneous Waves and Without Complex Angles	Adding New Features to an Old Favorite - Part 2	TUE-JB-02 (11:12 to 11:24 AM)	1/9/2024
Bosch	Salvador	Geometrical Optics Study of the Magnifying Glass	Intro & Beyond Posters I	SAT-POSB-409 (6:00 to 7:00 PM)	1/6/2024
Brandt	Ken	Simple Kinesthetic Demonstrations in Astronomy Teaching	Strategies to Support K-12 Physics Learning	SUN-CE-05 (2:48 to 3:00 PM)	1/7/2024
Brazzle	Bob	Updating Galileo's Ramps with 3-D Prints and Ternary Energy Diagrams	Adding New Features to an Old Favorite in Lab	TUE-IB-03 (10:24 to 10:36 AM)	1/9/2024
Bretland	Dean	Adapting Tutorials in Introductory Physics for large-lecture environments	Physics Education Research (PER) Posters I	SAT-POSE-707 (6:00 to 7:00 PM)	1/6/2024
Brown	Robert	Career Readiness for Physics Students (and Faculty): A Présumé Program	PER: Teaching Strategies and Motivation	TUE-IE-04 (10:48 to 11:00 AM)	1/9/2024
Brynteson	Matthew	Measuring the Adiabatic Index of Gases Using an Ultrasonic Sensor	Innovations in HS and Intro Labs	SUN-BC-02 (10:12 to 10:24 AM)	1/7/2024
Brynteson	Matthew	Measuring the Adiabatic Index of Gases Using an Ultrasonic Sensor	Labs/Apparatus Posters I	SAT-POSD-507 (6:00 to 7:00 PM)	1/6/2024
Burciaga	Juan	Iconic Problems in the Physics Core	Teaching and Learning- What is the core of Intro Physics	SUN-BB-03 (10:24 to 10:48 AM)	1/7/2024
Burk	John	Teaching Computational Modeling in 9th-grade Physics with an Easy-to-use, Purpose-built Environment	Effective Practices in Educational Technology- Part 2	MON-HB-02 (3:12 to 3:24 PM)	1/8/2024
Burson	Kristen	Beyond single physics courses: Envisioning a Framework for DEI education	Practical DEI for Teaching- Part 2- Discussion Session	SUN-BD (10:00 to 10:48 AM)	1/7/2024
Bush	Miriam	Use of Time to Measure Momentum/Energy of Cosmic Rays	Cosmic Ray Studies in the Classroom	SUN-DA-01 (3:00 to 3:12 PM)	1/7/2024
Callan	Kristine	A Class Without Email	Innovations in the Intro Classroom	TUE-IE-02 (11:12 to 11:24 AM)	1/9/2024
Campbell	Paul	Creative Student Engagement: Facilitating Student Ownership in Coursework & Peer Assessment	Adding New Features to an Old Favorite - Part 2	TUE-JB-01 (11:00 to 11:12 AM)	1/9/2024
Williams	LaToya	Out of the Classroom: STEM and World War II	Bringing Science Out of the Classroom- Part 1	MON-EE-01 (9:00 to 9:24 AM)	1/8/2024
Card	Virginia	Hands-On Lecture Activities for Diverse Adult Students of College Physics	Labs/Apparatus Posters I	SAT-POSD-505 (6:00 to 7:00 PM)	1/6/2024
Carlsmith	Duncan	MATLAB Live Scripts to explore the damped shaken string	Effective Practices in Educational Technology- Part 2	MON-HB-01 (3:00 to 3:12 PM)	1/8/2024
Carlsmith	Duncan	Introducing Mobile Phone Astrometry	Innovations in Teaching Astronomy	MON-GG-02 (2:24 to 2:48 PM)	1/8/2024
Cass	Matthew		Bringing Science Out of the Classroom- Part 1	MON-EE-03 (9:36 to 9:48 AM)	1/8/2024
Cecire	Kenneth	The Cosmic Watch in the Classroom	Cosmic Ray Studies in the Classroom	SUN-DA-02 (3:12 to 3:24 PM)	1/7/2024
Chakraborty	Shantanu	Introducing optical properties of liquid crystals and polarization in undergraduate optics course	Lab Activities and Learning Goals- Advanced Labs	SUN-CC-01 (2:00 to 2:12 PM)	1/7/2024
Chamberlain	Leslie	Building Girls' Confidence in the Physics Classroom	DEI Posters II	SUN-POSC-606 (4:00 to 5:00 PM)	1/7/2024
Chong	Garrett	Finding the Moon's Cosmic Ray Shadow Signal	Cosmic Ray Studies in the Classroom	SUN-DA-04 (3:36 to 4:00 PM)	1/7/2024

Churukian	Alice	Year Two of Lecture/Studio at the University of South Carolina	Physics Education Research (PER) Posters I	SAT-POSE-711 (6:00 to 7:00 PM)	1/6/2024
Cianciolo	Alicia	NASA'S Return to the Moon: Overview and Challenges of the Artemis Program.	Frontiers in Space Science	SUN-AA-01 (9:00 to 9:24 AM)	1/7/2024
Clary	Renee	Teachers' Retention of Physics Content Within A Hybrid Professional Development Program	Hybrid Physics Instruction-Part 2	TUE-JG-01 (11:00 to 11:24 AM)	1/9/2024
Cleaver	Mikayla	The SPS Internship: Opening Career Pathways	PER: Teaching Strategies and Motivation	TUE-IE-04 (10:36 to 10:48 AM)	1/9/2024
Cox	Anne	Physics Outreach via a Mobile Makerspace	Bringing Science Out of the Classroom- Part 2	MON-FE-01 (10:00 to 10:24 AM)	1/8/2024
Dange	Atharva	Using AI to Generate Homework and Practice Questions in a Fully Online Modern Physics Course	AI in Physics Education- Part 1	SUN-CB-04 (2:36 to 2:48 PM)	1/7/2024
De La Cruz	Iliana	Motivations from Higher Education for Teaching Science	PER: Teaching Strategies and Motivation	TUE-IE-02 (10:12 to 10:24 AM))	1/9/2024
Delgado	Jennifer	Self Efficacy in a First-Semester Introductory Physics Laboratory Course	Lab Activities and Learning Goals- Intro Labs	SUN-DC-01 (3:00 to 3:12 PM)	1/7/2024
Dittrich	William	Modern Eddington Experiment: Resurrection of the Optical	History of the Eddington Experiment- Part 2	TUE-JA-01 (11:00 to 11:24 AM)	1/9/2024
Doughty	Leanne	Students' ideas around quantum measurement in the context of interaction-free experiments	PER: Beyond Intro	MON-FD-02 (10:12 to 10:24 AM)	1/8/2024
Drake-Scheuermann	Dereth	Using Research in Physics to Increase Freshmen Retention Rates	Intro & Beyond Posters II	SUN-POSB-406 (4:00 to 5:00 PM)	1/7/2024
Dube	Richard	Teaching Particle Identification Using Jupyter Notebooks	Labs/Apparatus Posters II	SUN-POSD-510 (4:00 to 5:00 PM)	1/7/2024
Ego	Patricia	Bringing Physics to Life	Integrating Lab and Lecture- Part 3- Interactive Session	TUE-JC-03 (11:00 to 11:24 AM)	1/9/2024
Eliaser	Ash	Method for Measuring Low-Energy Cosmic Rays Using Time	SPS Poster Session	SAT-SPS-105 (6:00 to 7:00 PM)	1/6/2024
Erukhimova	Tatiana	Let Your Students Teach Through Physics Outreach	PIRA Session: The Positive Outcomes of Doing Outreach	TUE-IF-02 (10:24 to 10:48 AM)	1/9/2024
Falconer	Kathleen	Integrating PBL based Multimedia Courses into a Pre-service Physics Teacher Education Program	Effective Practices in Educational Technology- Part 1	MON-GB-03 (2:24 to 2:36 PM)	1/8/2024
Fenton	William	The Physics of the Electric Guitar: Learning about Waves, Electromagnetism, Circuits by Building an Electric Guitar	Physics of Jazz- Part 1	SUN-AG-03 (9:48 to 10:00 AM)	1/7/2024
Fleenor	Matthew	Increasing Program Retention and Recruitment through Engagement of First-year STEM Students	DEI Posters II	SUN-POSC-604 (4:00 to 5:00 PM)	1/7/2024
Fortner	Michael	A Practical Approach for Advanced Experimental Physics	Intro & Beyond Posters II	SUN-POSB-408 (4:00 to 5:00 PM)	1/7/2024
Foster	Thomas	A New Representation for Motion	Adding New Features to an Old Favorite - Part 2	TUE-JB-0 (11:24 to 11:36 AM)	1/9/2024
Freedman	Roger	Across the Physics-Verse: Creating Physics Comic Books for K-12 and Intro College Students	Strategies to Support K-12 Physics Learning	SUN-CE-01 (2:00 to 2:12 PM)	1/7/2024
Freericks	Jim	Should we trade off higher-level mathematics for abstract on to improve student understanding of quantum mechanics?	Beyond Intro	MON-EC-01 (9:00 to 9:12 AM)	1/8/2024
French	Paul	The Wave-on-a-Spring Laboratory: Broadening Applicability and Enhancing Accuracy	Labs/Apparatus Posters I	SAT-POSD-517 (6:00 to 7:00 PM)	1/6/2024
Fu	Ruide	Clustermancer: A Web-based Analysis Tool for Education and Research of Star Clusters	Astro Posters I	SAT-POSA-209 (6:00 to 7:00 PM)	1/6/2024
Gallis	Michael	The Animations for Physics and Astronomy Project at Penn State Schuylkill	Astro Posters I	SAT-POSA-205 (6:00 to 7:00 PM)	1/6/2024
Ganem	Joseph	Solving the Problem of Low-Enrolled Physics Courses with Hybrid Teaching	Hybrid Physics Instruction-Part 1	SUN-AB-02 (9:24 to 9:48 AM)	1/7/2024
Gangopadhyaya	Asim	Galileo's contribution to Newton's Laws	The Global Origins of Newton's Laws	MON-HA-01 (3:00 to 3:12 PM)	1/8/2024

Garlick	Martha	Computational Astronomy: A Universe of Calculations	Infusing Computation into Astronomy and Space Science- Part 2	MON-FA-01 (10:00 to 10:24 AM)	1/8/2024
Gavrin	Andrew	Computational Labs in Introductory Physics	Lab Activities and Learning Goals- Intro Labs	SUN-DC-03 (3:24 to 3:36 PM)	1/7/2024
Gelderman	Richard	Introducing "Multi-Messenger Astronomy" as High-Tech Use of Our Five Senses	21st Century Astronomy and Physics in the Classroom - Part I	SUN-BA-03 (10:36 to 10:48 AM)	1/7/2024
George	Michael	Exploration of AI and internet resources for student understanding of 2D and 3D Navier-Stokes equations, and applications to meteorology and other areas of physics	AI in Physics Education- Part 2	SUN-DB-02 (3:12 to 3:24 PM)	1/7/2024
Gould	Scot	Emphasizing Conceptual Understanding Using Maple: A Paradigm-Shift in Teaching Physics	Effective Practices in Educational Technology- Part 2	MON-HB-03 (3:24 to 3:36 PM)	1/8/2024
Green	Adam	Polarimetry as a Gateway to Careers in Optics	Labs/Apparatus Posters I	SAT-POSD-511 (6:00 to 7:00 PM)	1/6/2024
Green	Adam	An Optics Laboratory at Home During the Pandemic	Labs/Apparatus Posters II	SUN-POSD-512 (4:00 to 5:00 PM)	1/7/2024
Greenwood	Margaret	Calculations of Seasonal Properties: Daylight Hours and Observed Solar Path	Innovations in Teaching Astronomy	MON-GG-01 (2:00 to 2:24 PM)	1/8/2024
Gugliucci	Nicole	Radio JOVE 2.0: Radio Astronomy at a Small College	Astro Posters I	SAT-POSA-201 (6:00 to 7:00 PM)	1/6/2024
Guy	Anya	Transforming Undergraduate Physics Labs - A TA Centered Approach	Lab Activities and Learning Goals- Intro Labs	SUN-DC-02 (3:12 to 3:24 PM)	1/7/2024
Hairston	Wilford	Spatial dimensions of physics teaching and learning impacting minoritized students.	The Use of Critical Race Theory in Physics Education Research- Part 2	SUN-DD-03 (3:24 to 3:36 PM)	1/7/2024
Halstead	Evan	How Stuff Works: A Course on the Physics of Everyday Technologies	Intro & Beyond Posters I	SAT-POSB-407 (6:00 to 7:00 PM)	1/6/2024
Hamada	Asuka	Gender Gap in Confidence in the Force Concept Inventory	DEI Posters I	SAT-POSC-603 96:00 to 7:00 PM)	1/6/2024
Harlow	Jason	Gender and Early Success as Predictors of Student Retention in Physics	Practical DEI for Teaching- Part 1	SUN-AD-02 (9:12 to 9:24 AM)	1/7/2024
Heafner	Paul	TYC Tandem Meetings: Feedback and Planning Future Events	Recent Development in Two-Year College Programs	MON-GF-03 (2:24 to 2:36 PM)	1/8/2024
Herring	Thomas	3 Years of Hybrid Physics at a TYC: Lessons Learned	Hybrid Physics Instruction-Part 2	TUR-JG-02 (11:24 to 11:36 AM)	1/9/2024
Horváth	Anna	Machine Learning Based Study of Mirages	Beyond Intro	MON-EC-03 (9:24 to 9:36 AM)	1/8/2024
Huynh	Tra	Using Discourse About Sexism to Evade Discussion of Racism	The Use of Critical Race Theory in Physics Education Research- Part 2	SUN-DD-02 (3:24 to 3:36 PM)	1/7/2024
Hyde	Jeffrey	Making Physics Beyond Spherical Cows Accessible With Jupyter Notebooks	Beyond Intro	MON-EC-02 (9:12 to 9:24 AM)	1/8/2024
Jackson	David	Workshop Physics: Teaching Physics Without Lectures	Integrating Lab and Lecture- Part 2	TUE-IC-02 (10:12 to 10:24 AM)	1/9/2024
Jackson	David	All Things Physics: A repository of video explorations	Viral Physics with YouTube, Blogs and Other Media	MON-EB-01 (9:00 to 9:24 AM)	1/8/2024
Jaggi	Narendra	A Laboratory curriculum Accompanying an Introductory Course in Fundamentals of Quantum Information Science	Physics Labs Beyond the 1st Year	SUN-AC-03 (9:24 to 9:36 AM)	1/7/2024
Jegan	Naren Krishna	From Tests to Testing: Guided Inquiry Learning Through Hands-On Projects In The Ap Physics 1 Curriculum	K-12 Posters I	SAT-POC-01 (6:00 to 7:00 PM)	1/6/2024
Jegan	Naren Krishna	An Implementation of The Investigative Science Learning (ISLE) Approach for Strengthening Ap Physics 1 Teaching	K-12 Posters II	SUN-POSF-310 (4:00 to 5:00 PM)	1/7/2024
Johansson	Andreas	A Simple Experimental Procedure to Determine the Gravitational Acceleration and the Coefficient of Kinetic Friction	Using Video Analysis in Intro Labs	MON-FB-02 (10:12 to 10:24 AM)	1/8/2024

Johnson	Jolene	Guided Discussion Inclusive Everyday Actions	Inclusive Actions for Physics Clasrooms of All Levels	TUE-ID-03 (10:48 to 11:00 AM)	1/9/2024
Johnson	Jolene	Using the Everyday Actions Guide at the postsecondary level	Inclusive Actions for Physics Clasrooms of All Levels	TUE-ID-02 (10:24 to 10:48 AM)	1/9/2024
Johnson	Patrick	Using VR for Visualizing Difficult Ideas in Introductory Physics: A Proof of Concept	Intro & Beyond Posters I	SAT-POSB-411 (6:00 to 7:00 PM)	1/6/2024
Johnson	Brittany	Supporting ELL High School Students with Modeling Physics Curriculum in Introductory Courses	Physics Education Research (PER) Posters II	SUN-POSE-712 (4:00 to 5:00 PM)	1/7/2024
Kagan	Michael	Integrating the Teaching of Mathematics, Physics and Engineering Courses at Penn State, Abington	PER: Impact of Varying Pedagogy	MON-GD-05 (2:48 to 3:00 PM)	1/8/2024
Kamenetzky	Julia	Not your typical general education survey: a Citizen Science Astronomy course	21st Century Astronomy and Physics in the Classroom - Part I	SUN-BA-02 (10:24 to 10:36 AM)	1/7/2024
Kasper	Lutz	New Options for the Old Wilberforce Pendulum	Adding New Features to an Old Favorite in Lab	TUE-IB-04 (10:36 to 10:48 AM)	1/9/2024
Kasper	Lutz	DIY Bat Detector with Gamificaton Elements	Labs/Apparatus Posters II	SUN-POSD-500 (4:00 to 5:00 PM)	1/7/2024
Kaye	Ari	Using Factor Analysis to Gauge Validity of a Laboratory Exam	Physics Education Research (PER) Posters I	SAT-POSE-715 (6:00 to 7:00 PM)	1/6/2024
Kelly	Angela	Development of a High School Quantum Information Science and Technology Concept Inventory	PER: Assessment Tools	MON-HD-01 (3:00 to 3:12 PM)	1/8/2024
Kennefick	Daniel	The Eclipse of 1919 and the meaning of Replication in Science	History of the Eddington Experiment- Part 1	TUE-IA-02 (10:24 to 10:48 AM)	1/9/2024
Kilde Löfgren	Sebastian	Demonstration of sound waves using drones and students: Connecting individual experiences to large-scale observations	Improving Teaching with Lecture Demonstrations- Part 2	MON-HC-02 (3:12 to 3:24 PM)	1/8/2024
Kilde Löfgren	Sebastian	Escape Experience Aeroseum: On Design Goals and Educational Applications	Labs/Apparatus Posters I	SAT-POSD-519 (6:00 to 7:00 PM)	1/6/2024
Kim	Junhee	Developing and Application of Physics Identity Survey Tool for Preservice Teachers	Physics Education Research (PER) Posters II	SUN-POSE-706 (4:00 to 5:00 PM)	1/7/2024
Klassen	David	Computational Lab in Sophomore Astrophysics	Infusing Computation into Astronomy and Space Science- Part 2	MON-FA-02 (10:24 to 10:36 AM)	1/8/2024
Koch	Noah	How Spatial Disorder Affects Quantum Eigenvalue Statistics	SPS Poster Session	SAT-SPS-107 (6:00 to 7:00 PM)	1/6/2024
Kordahl	David	Millikan's Oil Drop Experiment as a Smartphone Lab?	Physics Labs Beyond the 1st Year	SUN-AC-04 (9:36 to 9:48 AM)	1/7/2024
Kouh	Taejoon	Tutorials with Python simulations: an opportunity for conveying physics concepts with computational exercises	Intro & Beyond Posters II	SUN-POSB-412 (4:00 to 5:00 PM)	1/7/2024
Kozminski	Joseph	Takeaways from BFY4 Advanced Labs: Transformative Hubs for STEM Careers	Physics Labs Beyond the 1st Year	SUN-AC-02 (9:12 to 9:24 AM)	1/7/2024
Kryjevskaia	Mila	Intuition and reasoning: What we can learn from cognitive psychology	Highlights from the AAPT Journals: TPT and AJP- Part 1	MON-EG-01 (9:00 to 9:24 AM)	1/8/2024
Kumar	Ashok	Supercharge with Supercapacitors: Advancements and Applications	Intro & Beyond Posters II	SUN-POSB-410 (4:00 to 5:00 PM)	1/7/2024
Kurtze	Douglas	Introductory Mechanics as a "Research" Program	Improving Teaching with Lecture Demonstrations- Part 1	MON-GC-03 (2:48 to 3:00 PM)	1/8/2024
Kurtze	Douglas	Introductory Mechanics as a "Research" Program	Intro & Beyond Posters I	SAT-POSB-403 (6:00 to 7:00 PM)	1/6/2024
Kurtze	Douglas	Demystifying Separation of Variables	Intro & Beyond Posters II	SUN-POSB-404 (4:00 to 5:00 PM)	1/7/2024
Kusenko	Alexander	Using AI in a university Physics course	AI in Physics Education- Part 2	SUN-DB-03 (3:24 to 3:36 PM)	1/7/2024
Levy	Elissa	An Energy Unit Fueled By Climate Change	Highlights from the AAPT Journals: TPT and AJP- Part 1	MON-EG-02 (9:24 to 9:48 AM)	1/8/2024

Lincoln	James	The Rocks from Space Lab	Innovations in HS and Intro Labs	SUN-BC-03 (10:24 to 10:36 AM)	1/7/2024
Lindell	Rebecca	Introducing AAPT/PERTG's Working Group on Conference Accessibility (WGCA)	DEI Posters II	SUN-POSC-602 (4:00 to 5:00 PM)	1/7/2024
Lindell	Rebecca	Preliminary Results from the Fluids Conceptual Evaluation (FCE) Pilot Test	Physics Education Research (PER) Posters I	SAT-POSE-705 (6:00 to 7:00 PM)	1/6/2024
Lindell	Rebecca	Using AI to Analyze Qualitative Research Data? The case for utilizing AI apps as part of your PER Qualitative Research	Physics Education Research (PER) Posters I	SAT-POSE-701 (6:00 to 7:00 PM)	1/6/2024
Lindell	Rebecca	Preliminary Results Fluids Conceptual Evaluation (FCE) Pilot Test	Physics Education Research (PER) Posters II	SUN-POSE-704 (4:00 to 5:00 PM)	1/7/2024
Lock	Frank	Climate Science Lessons for Students in Grades 6-13	Strategies to Support K-12 Physics Learning	SUN-CE-04 (2:36 to 2:48 PM)	1/7/2024
Lopez	Ramon	AAPT as part of the NASA Heliphysics Education Activation Team	21st Century Physics and Astronomy in the Classroom- Part 2	SUN-CA-01 (2:00 to 2:12 PM)	1/7/2024
Lopez	Ramon	The Quantum for All Professional Development Model	Quantum in HS- Part 1	SUN-AE-02 (9:24 to 9:48 AM)	1/7/2024
Lui	Kristine	One Year Report on The Organization for Physics at Two-Year Colleges (OPTYCs)	Recent Development in Two-Year College Programs	MON-GF-01 (2:00 to 2:12 PM)	1/8/2024
Lundgren	Britt	ESCIP: A collaboration for developing and sharing educational Jupyter Notebooks	Infusing Computation into Astronomy and Space Science- Part 1	MON-EA-02 (9:24 to 9:48 AM)	1/8/2024
Lunk	Brandon	The Process of Creating an IPLS Course Sequence / Designing an RE Tutorial	Teaching the IPLS	MON-GF-02 (2:24 to 2:48 PM)	1/8/2024
Malik	Idris	"Math" and "Physics" Conceptions Present in a Calculus-based Intro-Physics Classroom	Physics Education Research (PER) Posters II	SUN-POSE-710 (4:00 to 5:00 PM)	1/7/2024
Malik	Idris	Investigating "Math" and "Physics" Conceptions in a Calculus-based Intro-Physics Classroom	Teaching and Learning- What is the core of Intro Physics	SUN-BB-02 (10:12 to 10:24 AM)	1/7/2024
Manrakhan	Wayne	Student Experiences with Course-based Undergraduate Research Experience in an Introductory Physics Course at a Community College	Two Year College Posters	SAT-POSF-305 (6:00 to 7:00 PM)	1/6/2024
Marble	Daniel	A Simple Coincidence Measurement of Annhilation Photons Using a Low Cost Gamma Detection System	Labs/Apparatus Posters II	SUN-POSD-514 (4:00 to 5:00 PM)	1/7/2024
Mathis	Clausell	An Examination of Two Professional Learning Communities of Physics Teachers Developing Culture-Based Approaches to Instruction	Physics Education Research (PER) Posters I	SAT-POSE-713 (6:00 to 7:00 PM	1/6/2024
Matsler	Karen Jo	A New PD Model	Innovations in K-12 Teacher Professional Learning	SUN-DE-01 (3:00 to 3:12 PM)	1/7/2024
Matsler	Karen Jo	Integrating Engineering and Quantum	Quantum in HS- Part 2- Interactive Session	SUN-BE -01 (10:00 to 10:48 AM)	1/7/2024
Matthews	Kip	MEDICAL PHYSICS: INTERSECTING PHYSICS AND LIFE SCIENCES	Teaching the IPLS	MON-GF-01 (2:00 to 2:24 PM)	1/8/2024
Mayoral	Carlos	Combining Engineering and Physics with PBL	Innovations in the Intro Classroom	TUE-IE-03 (11:24 to 11:36 AM)	1/9/2024
McCaskey	Timothy	Reflecting on Two Summative Activities in Conceptual Physics	Intro & Beyond Posters I	SAT-POSB-405 (6:00 to 7:00 PM)	1/6/2024
McDaniel	Brent	Developing an Online College Physics Laboratory Class	Labs/Apparatus Posters II	SUN-POSD-504 (4:00 to 5:00 PM)	1/7/2024
McDermott	Liam	Who Constructs Knowledge and Who Defines Norms? Physics Implications of Neuroqueer Literacies	PER: Addressing Norms and Marginalization	MON-ED-01 (9:00 to 9:12 AM)	1/8/2024
McDonough	Bryanne	The Discovery of a Supermassive Black Hole at The Center of The Milky Way Galaxy	Highlights from the AAPT Journals: TPT and AJP- Part 2	MON-FG-02 (10:24 to 10:48 AM)	1/8/2024
McGraw	Allison	The Physics Laboratory Center (PLC): Inspiring Learning and Outreach through Interactive Demonstrations	Improving Teaching with Lecture Demonstrations- Part 2	MON-HC-03 (3:24 to 3:36 PM)	1/8/2024

McLaughlin	Maura	Pulsars: Timekeepers of the Cosmos	Frontiers in Space Science	SUN-AA-02 (9:24 to 9:48 AM)	1/7/2024
Melhus	Martin	TECHNIQUES FOR SIMULATION OF CHARGED PARTICLES IN GRAVITATIONAL AND ELECTROMAGNETIC FIELDS	Infusing Computation into Astronomy and Space Science- Part 2	MON-FA-03 (10:36 to 10:48 AM)	1/8/2024
Meltzer	David	Multiple predictors of performance in introductory general physics courses	PER: Assessment Tools	MON-HD-02 (3:12 to 3:24 PM)	1/8/2024
Mendez	Anthony	Adding A Sous Vide Cooker to The Introductory Physics Laboratory Arsenal	Adding New Features to an Old Favorite in Lab	TUE-IB-01 (10:00 to 10:12 AM)	1/9/2024
Mendoza Hernandez	Luis	Training Teachers to Introduce Quantum Information Science in K-12 Classrooms	Quantum in HS- Part 1	SUN-AE-03 (9:48 to 10:00 AM)	1/7/2024
Messina	Troy	An Introductory Lab Sequence with Microcontroller Apparatus	Innovations in HS and Intro Labs	SUN-BC-04 (10:36 to 10:48 AM)	1/7/2024
Moore	James	Using AI to Promote Depth in Student-Student Physics Discussions	AI in Physics Education- Part 2	SUN-DB-01 (3:00 to 3:12 PM)	1/7/2024
Morrison	Andrew	Steelpan Use in Jazz Music	Physics of Jazz- Part 1	SUN-AG-02 (9:24 to 9:48 AM)	1/7/2024
Morrison	Andrew	Surveying student attitudes towards learning before and after COVID-19 emergency learning experience	Two Year College Posters	SAT-POSF-303 (6:00 to 7:00 PM)	1/6/2024
MUNEJIRI	Shuji	A Mechanics Course without Grades for Assignments	Physics Education Research (PER) Posters I	SAT-POSE-709 (6:00 to 7:00 PM)	1/6/2024
Murdock	Maajida	Hands-On Activities to Model Exponential Functions: Application of E	K-12 Posters II	SUN-POSF-306 (4:00 to 5:00 PM)	1/7/2024
Murdock	Maajida	Application of Mathematical Concepts using Inquiry-Based Quantum Activities	Quantum in HS- Part 1	SUN-AE-01 (9:00 to 9:24 AM)	1/7/2024
Nevarez	Karre	3D Printing for Three-Dimensional Science	Labs/Apparatus Posters II	SUN-POSD-502 (4:00 to 5:00 PM)	1/7/2024
Newland	James	Learning Hubble-Lemaître's Law Using SDSS Data and Computational Thinking	Astronomy Education Research	MON-HA-03 (3:24 to 3:36 PM)	1/8/2024
Noel	Clifton	Preparing to Use Spaced Repetition in A Fully Online Modern Physics Course	AI in Physics Education- Part 1	SUN-CB-03 (2:24 to 2:36 PM)	1/7/2024
Oates	Mari	So You Have a MakerSpace, Now What?	Bringing Science Out of the Classroom- Part 2	MON-FE-02 (10:24 to 10:48 AM)	1/8/2024
Obadina	Victor	Enhancing student participation and real-time assessment with the chat tool	Effective Practices in Educational Technology- Part 1	MON-GB-04 (2:36 to 2:48 PM)	1/8/2024
O'Kuma	Thomas	Continuing Professional Development Workshop Program	Two Year College Posters	SAT-POSF-301 (6:00 to 7:00 PM)	1/6/2024
Paddock	Rose	Double-Star Astrometry with Small Telescopes	Astro Posters II	SUN-POSA-202 (4:00 to 5:00 PM)	1/7/2024
Paddock	Rose	Unlocking the Cosmos with Radio JOVE: Bridging the Gap for Tomorrow's Astronomers	Authentic Research Across the Spectrum	SUN-DG-01 (3:00 to 3:24 PM)	1/7/2024
Paul	Bilas	Mathematical Proficiency Enhancement for Physics Success (MaPEPS): A Study on Elevating Introductory Physics Students' Learning Experience	Teaching and Learning- What is the core of Intro Physics	SUN-BB-01 (10:00 to 10:12 AM)	1/7/2024
Pearson	Richard	Positive CLASS Gain in a Labor-based Introductory Physics Course Case Study	PER: Teaching Strategies and Motivation	TUE-IE-03 (10:24 to 10:36 AM)	1/9/2024
Perry	Spencer	Conceptions of STEM Integration in Physics Education Research	Physics Education Research (PER) Posters II	SUN-POSE-702 (4:0 0to 5:00 PM)	1/7/2024
Perry	Jonathan	Impacts of Facilitating Informal Physics Programs Measured through a National Sample	PIRA Session: The Positive Outcomes of Doing Outreach	TUE-IF-01(10:00 to 10:24 AM)	1/9/2024
Peterson	Randolph	Design and Construction of A Low-Cost Raman Spectrometer For Undergraduate Experiments With Graphene	Labs/Apparatus Posters I	SAT-POSD-513 (6:00 to 7:00 PM)	1/6/2024
Petkie	Douglas	Bringing Emerging Technologies in Photonics into Introductory Physics	21st Century Physics and Astronomy in the Classroom- Part 2	SUN-CA-02 (2:12 to 2:24 PM	1/7/2024

Pilarcik	Aaron	Cosmic Ray Muon Detection in a Simple Hand-Held Device	Labs/Apparatus Posters II	SUN-POSD-506 (4:00 to 5:00 PM)	1/7/2024
Pilarcik	Aaron	Cosmic Ray Muon Detection in a Simple Hand-Held Device	Physics Labs Beyond the 1st Year	SUN-AC-01 (9:00 to 9:12 PM)	1/7/2024
Polley	Patrick	Magnetic Resonance with Damping	Labs/Apparatus Posters I	SAT-POSD-503 (6:00 to 7:00 PM)	1/6/2024
PYAKURYAL	ANIL	Circuit-Algorithm-Math-Physics (CAMP): A novel integrated model to assess the educational goals of Associate of Science Degree program in Quantum Literacy	Physics Education Research (PER) Posters II	SUN-POSE-716 (4:00 to 5:00 PM)	1/7/2024
PYAKURYAL	ANIL	"Circuit-Algorithm-Math-Physics (CAMP): A novel integrated model to assess the educational goals of Associate of Science (AS) degree program in Quantum Literacy"	Two Year College Posters	SAT-POSF-309 (6:00 to 7:00 PM)	1/6/2024
Ramsey	Gordon	The Harmonica in Jazz and Blues	Physics of Jazz- Part 1	SUN-AG-01 (9:00 to 9:24 AM)	1/7/2024
Rao	Rolex	An interesting to reinvent a wheel: Fourier Transform	Beyond Intro	MON-EC-04 (9:36 to 9:48 AM)	1/8/2024
Rao	Rolex	Revisit the Newton's Laws, the inertial mass, and attractive mass.	The Global Origins of Newton's Laws	MON-HA-03 (3:24 to 3:36 PM)	1/8/2024
Rasinariu	Constantin	Funicli, funicula - an improbable funicular-	Improving Teaching with Lecture Demonstrations- Part 1	MON-GC-02 (2:24 to 2:48 PM)	1/8/2024
Rasmussen	Emma	Inquiry Style Planetarium Activities	Astronomy Education Research	MON-HA-02 (3:12 to 3:24 PM)	1/8/2024
Reed	Scott	Using Wireless Carts with Built-in Sensors to Generate Graphs that Integrate Lab and Lecture Discussions	Labs/Apparatus Posters II	SUN-POSD-516 (4:00 to 5:00 PM)	1/7/2024
Regester	Jeffrey	An Easy-to-Build Armillary Sphere for Introductory Astronomy	Adding New Features to an Old Favorite in Lab	TUE-IB-05 (10:48 to 11:00 AM)	1/9/2024
Robinson	Sean	Role of advanced laboratory in a research university's undergraduate physics curriculum	Lab Activities and Learning Goals- Advanced Labs	SUN-CC-02 (2:12 to 2:24 PM)	1/7/2024
Rodriguez	Miguel	Critical Race Theory Perspective of Physics	The Use of Critical Race Theory in Physics Education Research- Part 1	SUN-CD-02 (2:24 to 2:48 PM)	1/7/2024
Rosa	Katemari	CRT in PER: From the States to the world, shifting conversations around race	The Use of Critical Race Theory in Physics Education Research- Part 1	SUN-CD-01 (2:00 to 2:24 PM)	1/7/2024
Rossi	Vincent	Integrating experiential learning into an Optics lecture course via Simulation Led Optical Design Assessments	Integrating Lab and Lecture- Part 2	TUE-IC-01 (10:00 to 10:12 AM)	1/9/2024
Ruch	Gerald	A Tool For Developing Proper Tone Among Music Students	Labs/Apparatus Posters I	SAT-POSD-515 (4:00 to 5:00 PM)	1/6/2024
Ruggerio	Marianna	"Building Thinking Classrooms" in Physics	Strategies to Support K-12 Physics Learning	SUN-CE-02 (2:12 to 2:24 PM)	1/7/2024
Rupright	Mark	Physics By Inquiry: An Lab-Only Class	Labs/Apparatus Posters I	SAT-POSD-509 (6:00 to 7:00 PM)	1/6/2024
Sabatier	Charles	The Egg Drop Project for All Eggs Teaches Students to Think About the Implications of Engineering Design Decisions That Affect Large Groups of People	Adding New Features to an Old Favorite in Lab	TUS-IB-02 (10:12 to 10:24 PM)	1/9/2024
Sampere	Samuel	30+ years of thriving high school physics teacher interactions – how do we do it?	Improving Teaching with Lecture Demonstrations- Part 1	MON-GC-01 (2:00 to 2:24 PM)	1/8/2024
Sampere	Samuel	The Physics of Woodwinds, and a Dabble of Guitar	Physics of Jazz- Part 2	SUN-BG-01 (10:00 to 10:12 AM)	1/7/2024
Sauncy	Toni	Race, Identity, and STEM - a short course aimed at empowering marginalized students	Practical DEI for Teaching- Part 1	SUN-AD-03 (9:24 to 9:36 AM)	1/7/2024
Savrda	Sherry	Creating a Physical Science Course Focused on Sustainability	Recent Development in Two-Year College Programs	MON-GF-02 (2:12 to 2:24 PM)	1/8/2024

Selph	Logan	Using Real LVK Data for Gravitational Wave Education	Astro Posters I	SAT-POSA-207 (6:00 to 7:00 PM)	1/6/2024
Shan	Kathy	Using AI in an Introductory Calculus Based Physics Course	AI in Physics Education- Part 1	SUN-CB-02 (2:12 to 2:24 PM)	1/7/2024
Sharma	Ganga	Group Work in the Physics Courses to Enhance Students Learning Outcomes	PER: Impact of Varying Pedagogy	MON-GD-04 (2:36 to 2:48 PM)	1/8/2024
Simmons	James	The Significance of Newton's Work in Alchemy	The Global Origins of Newton's Laws	MON-HA-02 (3:12 to 3:24 PM)	1/8/2024
Smith	Donald	Trying Machine Learning in Introductory Astronomy	Infusing Computation into Astronomy and Space Science- Part 1	MON-EA-01 (9:00 to 9:24 AM)	1/8/2024
Snow	Al	Investigating the Intersection between Tutorials in Introductory Physics and Mathematical Reasoning	PER: Teaching Strategies and Motivation	TUE-IE-01 (10:00 to 10:12 AM)	1/9/2024
Spalding	Gabriel	Lab exercises with CHEAP single-photon detectors	Innovations in HS and Intro Labs	SUN-BC-01 (10:00 to 10:12 AM)	1/7/2024
Steiner	Robert	OpenSpace: An Open-Source Tool for Astrophysical Visualization	Effective Practices in Educational Technology- Part 1	MON-GB-01 (2:00 to 2:12 PM)	1/8/2024
Stella	Sarah	Limitations of Traditional Demographic Data and Categories in PER: Some Questions and Considerations	PER: Addressing Norms and Marginalization	MON-ED-03 (9:24 to 9:36 PM)	1/8/2024
Stenson	Jared	Using Quantum in General Education	21st Century Physics and Astronomy in the Classroom- Part 2	SUN-CA-03 (2:24 to 2:36 PM)	1/7/2024
Stewart	Phillip	Revolutionizing Grades: An Enlightening Spin on Equity in AP Physics	Practical DEI for Teaching- Part 1	SUN-AD-01 (9:00 to 9:12 AM)	1/7/2024
Stone Wolbrecht	Tiffany	ASTRO ACCEL: advancing research-informed programming and practices	Astronomy Education Research	MON-HA-04 (3:36 to 3:48 PM)	1/8/2024
Strunk	Amber	LIGO and Gravitational Waves: Eight years later	21st Century Astronomy and Physics in the Classroom - Part I	SUN-BA-01 (10:00 to 10:24 AM)	1/7/2024
Suarez Rodriguez	Carmen	Manufacture of a Solar Oven: Project for Community Development	Labs/Apparatus Posters I	SAT-POSD-501 (6:00 to 7:00 PM)	1/6/2024
Sundararajan	Jency	Student Engagement Activities in Introductory Physics for Pre-health	Teaching the IPLS- Poster Session	MON-HE-02 (3:00 to 4:00 PM)	1/8/2024
Tagg	Randall	Physics and Resilience: Helping Communities and Physics Students Gain a Sense of Efficacy with Real-World Challenges	Bringing Science Out of the Classroom- Part 1	MON-EE-02 (9:24 to 9:36 AM)	1/8/2024
Taylor	Izabela	Investigating the Impact of Equity-Based Teaching on Implicit Biases in STEM Students	DEI Posters I	SAT-POSC-601 (6:00 to 7:00 PM)	1/6/2024
Torabi	Aida	Growing Student Abilities in Physics and Beyond through a Project-based course creating demonstration	Improving Teaching with Lecture Demonstrations- Part 2	MON-HC-01 (3:00 to 3:12 PM)	1/8/2024
Tuna	Ali	Could AI Radically Change Physics Education	AI in Physics Education- Part 2	SUN-DB-04 (3:36 to 3:48 PM)	1/7/2024
Unterman	Nathan	Cosmic Ray Experiments Using Local Sites and Resources	Cosmic Ray Studies in the Classroom	SUN-DA-03 (3:24 to 3:36 PM)	1/7/2024
Vasandani	Ashish	DC Magnetron Sputtering of Indium Thin Films: Crystallographic and Morphological Investigations	SPS Poster Session	SAT-SPS-109 (6:00 to 7:00 PM)	1/6/2024
Velez	Veronica	Exposing and Challenging “Grit” in Physics Education: Dis/abling white Logics that Structure Emotion and Affect	The Use of Critical Race Theory in Physics Education Research- Part 2	SUN-DD-01 (3:00 to 3:24 PM)	1/7/2024
Vertullo	Ilana	Educator Observations of Physics Concepts Applied to NGSS Earth and Space Science Discipline Activities	K-12 Posters II	SUN-POSF-304 (4:00 to 5:00 PM)	1/7/2024
Von Handorf	Raquel	Grading for Equity in AP Physics-Successes and Challenges	DEI Posters II	SUN-POSC-608 (4:00 to 5:00 PM)	1/7/2024
WADDELL	JACK	Keplerian Kinesthetics	The Global Origins of Newton's Laws	MON-HA-04 (3:36 to 3:48 PM)	1/8/2024
Walker	Azida	History of Physics/Science	Practical DEI for Teaching- Part 1	SUN-AD-04 (9:36 to 9:48 AM)	1/7/2024

Washburn	Kristine	Equity-Minded Physics Questions	DEI Posters I	SAT-POSC-607 (6:00 to 7:00 PM)	1/6/2024
Will	Clifford	Eclipse, Eddington and Einstein: The Triumph and Decline of General Relativity	History of the Eddington Experiment- Part 1	TUE-IA-01 (10:00 to 10:24 AM)	1/9/2024
Wood	Krista	Supporting new TYC faculty with OPTYCs New Faculty Development Series (NFDS)	Two Year College Posters	SAT-POSF-307 (6:00 to 7:00 PM)	1/6/2024
Wu	Sean	Formative Assessment With Microsoft OneNote Class Notebook	Effective Practices in Educational Technology- Part 1	MON-GB-02 (2:12 to 2:24 PM)	1/8/2024
Yarbrough	Scott	Student Performance in Modern Physics in An Active, Partially-Flipped Classroom: Comparing Online Vs. In-Person Outcomes	PER: Beyond Intro	MON-FD-01 (10:00 to 10:12 AM	1/8/2024
Young	Donna	Astronomy Data, Image Analysis, and Research Using NASA's UoL Web-based JS9 Software Tools	Astro Posters II	SUN-POSA-206 (4:00 to 5:00 PM)	1/7/2024
Zhang	Xinya	Teach Students Critical Thinking Skills—Comparing the Big Bang Model and the Exponential Expansion Model	Astro Posters I	SAT-POSA-211 (6:00 to 7:020 PM)	1/6/2024
Zhang	Xinya	Design audio demonstrations for teaching acoustics to students from diverse backgrounds	Labs/Apparatus Posters II	SUN-POSD-520 (4:00 to 5:00 PM)	1/7/2024
Zheng	Michael	A Different Pedagogical Approach to Teaching Quantum Superposition	Intro & Beyond Posters I	SAT-POSB-401 (6:00 to 7:00 PM)	1/6/2024
Zimmerman	Charlotte	Normalized Gains Comparing Interactive Lecture Tutorial to Small Classroom Settings	PER: Impact of Varying Pedagogy	MON-GD-03 (2:24 to 2:36 PM)	1/8/2024