

Registration for workshops is first-come, first-served, so register early to secure a place in the workshop of your choice. Please use a checkmark for your initial choices, then indicate subsequent choices (in case first choice is unavailable) numerically. No form received after July 6, 2017 will be accepted in the Executive Office for processing. Workshop abstracts can be found online at www.aapt.org/Conferences/sm2017/workshops.cfm.

NAME _____

(Use checkmarks for 1st choices, then rank subsequent choices numerically . . . 1, 2, 3, etc.)

All workshops will be held at the University of Cincinnati

Workshops, Saturday July 22		Time	Fees		
			Mem.	Non-Mem.	
W01	Designing Circuits Activities for Middle School Students.....	8:00 a.m.–12:00 p.m.	W01: \$70	\$95	_____
W02	Making High Speed Videos.....	8:00 a.m.–12:00 p.m.	W02: \$60	\$85	_____
W03	Mathematical Modeling with Desmos	8:00 a.m.–12:00 p.m.	W03: \$60	\$85	_____
W04	iMobile Physics and iPhysics Classroom.....	8:00 a.m.–12:00 p.m.	W04: \$60	\$85	_____
W05	Make and Take Low Cost Spectrograph for Physics Labs	8:00 a.m.–12:00 p.m.	W05: \$85	\$110	_____
W06	Modern Physics Labs on a Budget Using LEDs and Mixed Signal Processors.....	8:00 a.m.–12:00 p.m.	W06: \$85	\$110	_____
W07	“Can We Have a Group Test?” Designing Collaborative, Active, Alternative Assessments for Physics Classes.....	8:00 a.m.–12:00 p.m.	W07: \$60	\$85	_____
W08	Introductory Labs for Electricity and Magnetism.....	8:00 a.m.–12:00 p.m.	W08: \$72	\$97	_____
W11	Activity-based Physics in the Advanced High School Classroom	8:00 a.m.–5:00 p.m.	W11: \$75	\$120	_____
W12	Physics Activities for the Life Sciences (PALS).....	8:00 a.m.–5:00 p.m.	W12: \$85	\$110	_____
W13	Learn Physics While Practicing Science: Introduction to ISLE.....	8:00 a.m.–5:00 p.m.	W13: \$95	\$120	_____
W14	The Perplexed Physicists’ Primer on Teaching Astronomy	8:00 a.m.–5:00 p.m.	W14: \$85	\$110	_____
W17	Low-Cost Open-Source Laboratory Instruments	1:00 p.m.–5:00 p.m.	W17: \$60	\$85	_____
W18	Physics of Toys.....	1:00 p.m.–5:00 p.m.	W18: \$61	\$86	_____
W19	Computational Modeling with GlowScript and VPython.....	1:00 p.m.–5:00 p.m.	W19: \$60	\$85	_____
W20	Examining the Relationships among Intuition, Reasoning, and Conceptual Understanding in Physics	1:00 p.m.–5:00 p.m.	W20: \$60	\$85	_____
W21	An Example of Tutorials for Upper-division Physics Courses: Quantum Mechanics	1:00 p.m.–5:00 p.m.	W21: \$65	\$90	_____
W22	PIRA Lecture Demonstrations I & II Condensed: Selections from the PIRA 200.....	1:00 p.m.–5:00 p.m.	W22: \$95	\$120	_____
W23	An Introduction to Race, Ethnicity, and Equity in Physics Education	1:00 p.m.–5:00 p.m.	W23: \$65	\$90	_____
W24	Student Activities from the IceCube Neutrino Experiment	1:00 p.m.–5:00 p.m.	W24: \$60	\$85	_____

Workshops, Sunday, July 23		Time	Fees		
			Mem.	Non-Mem.	
W27	High Altitude Ballooning	8:00 a.m.–12:00 p.m.	W27: \$75	\$100	_____
W28	Physics Invention Tasks: Developing Mathematical Creativity as a Scientific Practice.....	8:00 a.m.–12:00 p.m.	W28: \$60	\$85	_____
W30	Fun and Engaging Labs.....	8:00 a.m.–12:00 p.m.	W30: \$60	\$85	_____
W31	Using Minecraft to Teach Physics.....	8:00 a.m.–12:00 p.m.	W31: \$70	\$95	_____
W32	What Every Physics Teacher Should Know About Cognitive Research	8:00 a.m.–12:00 p.m.	W32: \$60	\$85	_____
W33	Workshop on Intermediate-Level, Interdisciplinary Instruction in Biological Physics.....	8:00 a.m.–12:00 p.m.	W33: \$60	\$85	_____
W34	Fun, Engaging, and Effective Labs and Demos in Electricity, Magnetism and Optics with Clickers, Video Analysis, and Computer-based Tools	8:00 a.m.–12:00 p.m.	W34: \$75	\$100	_____
W35	Explore Your Assessment Data with the PhysPort Data Explorer.....	8:00 a.m.–12:00 p.m.	W35: \$60	\$85	_____
W37	Periscope: Looking Into Learning in Best-Practices Physics Classrooms	1:00 p.m.–5:00 p.m.	W37: \$60	\$85	_____
W38	Intermediate and Advanced Laboratories.....	1:00 p.m.–5:00 p.m.	W38: \$85	\$110	_____
W39	Making Videos as Projects	1:00 p.m.–5:00 p.m.	W39: \$60	\$85	_____
W40	Don’t Lecture Me: Tutorial-based Curricula for Teaching Advanced Placement Physics	1:00 p.m.–5:00 p.m.	W40: \$65	\$90	_____
W41	Making Waves with NASA: Culturally Responsive Instructional Approaches for Teaching Physical Science Concepts in Middle and High School	1:00 p.m.–5:00 p.m.	W41: \$65	\$90	_____
W42	Using Jupyter Notebook to Teach Physics with Computation.....	1:00 p.m.–5:00 p.m.	W42: \$65	\$90	_____
W43	Developing the Next Generation of Physics Assessments.....	1:00 p.m.–5:00 p.m.	W43: \$60	\$85	_____
W44	Integrating Computation into Undergraduate Physics	1:00 p.m.–5:00 p.m.	W44: \$20	\$45	_____
W45	Demo Kit in a Box: Electrostatics	1:00 p.m.–5:00 p.m.	W45: \$85	\$110	_____
W46	Strategies to Help all Women Succeed in Physics Related Professions	1:00 p.m.–5:00 p.m.	W46: \$65	\$85	_____
T01	Designing and Running Your Own Physics Camp	8:00 a.m.–11:00 a.m.	T01: \$60	\$85	_____
T02	Where Were You?.....	8:00 a.m.–10:00 a.m.	T02: \$75	\$100	_____
T03	Improving Instruction through Action Research.....	8:00 a.m.–10:00 a.m.	T03: \$60	\$85	_____