

AAPT/PTRA Leadership Institute
July 23-26, 2014 @ Minneapolis, MN

Date	Start Time	Duration	Activity
Wednesday	6:30 PM	0:15	Welcome back, Objectives
	6:45 PM	2:00	Ann, Sharon, Dave, Bill: UWGA workshop highlights and activities
	8:45 PM		Dismiss
Thursday	8:00 AM	0:15	Overview
	8:15 AM	0:45	2013-2014 workshops and updates: Marge Cotton: revised Kidwind; Pat, Dave: workshop on apps; Brian: OK; Jan, Duane, Lars: Idaho; Elaine, Jan: NSTA; Janie, Evelyn: Geoscience
	9:00 AM	3:00	Texas Instruments--Donald Turnstill and Kelli Key; using the Nspire and Vernier probes in the physics classroom
	12:30 PM	0:15	Questions, Overview, wrap up
	12:45 PM	1:00	Lunch on your own
	1:45 PM	3:30	Vernier update--John Gastineau; Motion Encoder, Energy Sensor with KidWind, DCU, Waves
	4:45 PM	1:30	Duane and Lars--Energy and the Pile Driver--Conservation of Energy and Engineering Protective Packaging
	6:15 PM	1:30	break for dinner/supper
	7:45 PM		Engineering design; practice time with equipment, work on modules, etc.
Friday	8:00 AM	0:15	Overview
	8:15 AM	3:30	Tom Okuma (TIPERS, RT, etc.)
	11:45 AM	1:00	Lunch on your own
	12:45 PM	3:00	Work on Modules for workshops
	3:45 PM	1:30	Duane and Lars--Sound and sound traveling through a medium--Engineering Can you build a speaker
	5:15 PM	1:30	dinner/supper
	6:45 PM	2:00	Perimeter: Kevin Martindale, Greg Dick, Tonia Williams, Alex McDonnell, and Kevin Donkers (PI Teacher network, New modules)
	8:45 PM		Dismiss
Saturday	8:00 AM	0:15	Overview
	8:15 AM	3:00	Perimeter--part II; Cosmic Mysteries, Beyond the Atom (Particle Physics)
	11:15 AM	1:00	Lunch on your own
	12:15 PM	2:30	PASCO updates Brett Sackett; structures, MatchGraph software, sparkvue
	2:45 PM	2:00	Presentations of modules and discussions/suggestions
	4:45 PM	1:30	Duane and Lars--Designing a better tower--Engineering with a limited amount of material
	6:15 PM		Dismiss