

Festival of Science In-school Speakers 2009 (Sept 21- Oct 9)								
Participant Name	Phone	Email	Organization	Presentation Title	Presentation Description	Age Group (grades)	Audience size	Special Requirements
Anderson, Ed	523-1371	ed.anderson@nau.edu	NAU Physics and Astronomy	1) A Brief Tour of the Universe; 2) Truth or Twilight Zone?; 3) Making Comets; 4) Solar System Walk	1) Slide show tour of the solar system and the rest of the universe from the point of view of looking for life on other worlds; 2) An interdisciplinary look at the solution to the Drake Equation: an equation to calculate the number of civilizations in the galaxy we could make contact with right now (provided we knew where they were and at what frequency we could contact them on). The various terms of this equation have values that come from physics, astronomy, biology, and social/behavioral science; 3) Students will take a class in "cosmic cooking school" and make comets. There is a \$20 fee for dry ice; 4) Walk a scale model of the solar system, 0.5 mile off campus on a straight stretch of road or trail.	K-12	any	projection screen
Bates, Bryan	226-4273	bryan.bates@coconino.edu	Coconino Community College	Astronomy of Ancient Cultures	How ancestral Puebloan peoples used the movement of the sun, moon and stars to predict seasonal changes that are then expressed in their survival (farming, hunting) and religious events.	7-12	any	PowerPoint projector
Bohlin, Robert	556-9161	robert.bohlin@noaa.gov	NWS	The Science of Meteorology	How weather works: basic physics demonstrations, how weather forecasts are produced, weather safety, and the NWS mission and programs.	4-8	10-30	projector screen
Colbath, Kent	714-392-1397	scolecodoc@gmail.com		Shake, Rattle and Roll	An introduction to earthquake science and hazards using meter sticks, slinkies, and a seismograph	6th	1 class	VCR/monitor; PowerPoint projector

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Edmundson, Ken	556-7253	kedmundson@usgs.gov	USGS	Photogrammetry: Measuring Shipwrecks to Ruins	Photogrammetry, the science of measurement using photography, has facilitated 3-D modeling of ancient shipwrecks in the Mediterranean and the fine-tuning of the largest radio telescope in the world at Arecibo, Puerto Rico. It is used in building spacecraft, aircraft, and automobiles and it has been used at archaeological sites. Photogrammetry is an exciting field of study and a valuable tool in a wide variety of professions.	7-12	1 class	PowerPoint projector and screen
Grim, Norman	523-7218	norman.grim@nau.edu	NAU - Biology Dept	The Amazing and Magical World of Ciliated Protozoa: How They Help Us	An introduction to those amazing and tiny ciliated protozoa. This year new features have been added about how they have helped us learn about OUR bodies. Most recently, is work on a ciliate product that may help fight cancer.	4-12	1-2 classes	VCR/monitor; slide projector w/ remote
Hamburg, Stacey	774-6514	stacey_hamburg@sierraclub.org	Sierra Club	Climate Change and the Grand Canyon Ecoregion	Interactive lesson on the impacts climate change is likely to have on the ecological, social, and cultural resources of the Grand Canyon ecoregion. In small groups students will learn about potential impacts of climate change on living things. The program finishes with ways that we can all make a difference and work together to solve this problem.	4-12	1 class	PowerPoint projector
Keszthelyi, Laszlo	556-7002	laz@usgs.gov	USGS	Volcanoes in the Solar System	PowerPoint tour of the Solar System looking at volcanoes found throughout. Talk can be tailored to emphasize features near Flagstaff or the Solar System in general	K-12	1 class	PowerPoint equipment
Klimowski, Brian	556-9161 x222	brian.klimowski@noaa.gov	NWS	The WHY and WOW of Arizona Weather!	Basics of weather including instrumentation, how the NWS makes forecasts, and weather experiments	4-6	10-40	none
Leibfried, Bill	853-1758	wleib@aol.com	Leibfried Environmental Services	Ecology of the Grand Canyon from the Rim to the River: Past to Present	Talk will include life zones, unique Grand Canyon species, river ecology related to changes since Glen Canyon Dam, and current issues	7-12	1 class	PowerPoint equipment

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Nelson, Mansel	523-1275	mansel.nelson@nau.edu	NAU-ITEP	1) Introduction to GPS; 2) Introduction to Engineering Careers	1) Activities and presentation on how scientists and engineers use GPS to enhance their work; 2) Learn about jobs in the field of engineering	5-12	1 class	none
Pearce, Andy	928-638-7662	andy_pearce@nps.gov@nps.gov	NPS-Grand Canyon	1) Geology; 2) Ecology; 3) Human History	1) Formation of Grand Canyon, rock types and rock cycle, plate tectonics and crustal uplift, and geologic time; 2) Classification and taxonomy, biodiversity, evolutionary change, and Grand Canyon trivia game; 3) Presentation covers 12,000 years of human history at Grand Canyon, how we study archaeology today and how to become an archaeologist	4-6	1 class	none
Strohmeier, Brenda	853-3200	bstrohmeier@fs.fed.us	RMRS	1) Fire in the Forest; 2) How weeds launch their seeds; 3) Launch into the world of Raptors	1) Fire often zooms through our forests; learn why and how fire can be good and bad; 2) Learn different ways plants send their seeds out; 3) Wouldn't it be cool to fly like raptors? Learn how scientists track raptors in forests surrounding Flagstaff using telemetry and other equipment.	K-12	1 class	none
Sullivan, Kathy	214-1249	ksullivan@azgfd.gov	AZ Game and Fish Department – Condor Reintroduction Project	California Condors Soar in Arizona	Interactive presentation on the condor reintroduction program in Arizona. Also includes condor natural history, biology, mortality, and breeding.	4-12	20-50	none
Vaughan, Greg	556-7006	gvaughan@usgs.gov	USGS	Monitoring Earth's Volcanoes from Space	How scientists use satellite images, as well as other tools, to study and monitor Earth's active volcanoes.	K-12	1 class	PowerPoint equipment, +/- highspeed internet connection