

Festival of Science In-school Speakers 2010 (Sept 20 - Oct 8)									
Participant Name	Phone	Email	Organization	Presentation Title	Presentation Description	Age Group (grades)	Audience size	Special Requirements	Notes
Bahr, Sandy	774-6514	sandy.bahr@sierraclub.org	Sierra Club	1) The Law of the River 2) Climate Change and the Grand Canyon Ecoregion	1) Through this hands on activity, students will follow the Law of the River to distribute available water, finding ways to make deals and compromise in order to meet their needs. No winner or loser. Activity will tie into the concept of sustainable water use. Teacher will be given information and articles to prep students for this activity. 2) An interactive lesson on likely impacts of climate change on ecological, social and cultural resources of the Grand Canyon ecoregion. Discussion ends with ways we can all make a difference and work together on this problem.	1) 9-12 2) 7-12	1 class	none	
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	
Bickford, Kirstie	779-1745	kirstie@willowbendcenter.org	Willow Bend	1) Recycling Rules! 2) Trash and the 3R's 3) Water Quality in the Classroom 4) Secret Life of a Plastic Bag 5) Secret Life of a Shoe	1) Explore why recycling is so important and understand the basic rules of recycling in Flagstaff; 2) Learn how to reduce waste, reuse materials and recycle in Flagstaff; 3) Learn the basics of water quality testing, focusing primarily on pH testing; 4) Learn about the life cycle of a plastic bag and the effects these everyday items have on our planet; 5) Your shoe has been all over the Earth! Eye-opening look at the manufacture and production of shoes, and consider consumer choices and sustainability.	1) K-2 2) 3-6 3) 4, 7-12 4) 6-12 5) 6-12	1 class	Free to schools Willow Bend is contracted with (FUSD and Switzer Mesa Montessori), \$50/hour fee for all other schools	
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		1) Shake, Rattle and Roll 2) Flagstaff's Explosive Past	1) An introduction to earthquake science and hazards using meter sticks, slinkies, and a seismograph. 2) Introduction to igneous rocks and the volcanoes surrounding our town	1) 6th 2) 4th	any	1) VCR/monitor; PowerPoint projector 2) DVD player and monitor; PowerPoint projector	

Festival of Science In-school Speakers 2010 (Sept 20 - Oct 8)										
Participant Name	Phone	Email	Organization	Presentation Title	Presentation Description	Age Group (grades)	Audience size	Special Requirements	Notes	
Edmundson, Ken	556-7253	kedmundson@usgs.gov	USGS	Photogrammetry: Measuring Shipwrecks to Ruins	Photogrammetry is an exciting field of study and a valuable tool in a wide variety of professions. 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 also used in building spacecraft, aircraft, and automobiles and at archaeological sites.	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 class	slide projector w/ remote, maybe PowerPoint		
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		
Miller, Cheryl	523-6727	cheryl.miller@nau.edu	NAU-Centennial Forest	What Makes a Forest Healthy?	Learn about all the things that can affect the health of our forests.	6-11	any	none	Only available Mondays or Tuesdays	
Olson, Tom	928-380-1892	fossilfever.olson2@gmail.com		1) Fossils of Arizona 2) Fossils of Flagstaff 3) Volcanoes 4) Oceanography 5) Dinosaurs of Arizona	1) Learn why fossils are important. Make rubbings of fossils seen in the Grand Canyon; 2) What fossils are seen around Flagstaff?; 3) Learn why Flagstaff has 100's. Build one from clay and label the parts; 4) Oceans as a source for certain rock types and fossils. Marine rocks of Grand Canyon; 5) Discover the variety in and about our state. Make a T-Rex skeleton.	any	1 class	none		

Festival of Science In-school Speakers 2010 (Sept 20 - Oct 8)										
Participant Name	Phone	Email	Organization	Presentation Title	Presentation Description	Age Group (grades)	Audience size	Special Requirements	Notes	
Posey, Amala	928-638-7931	Amala_Posey@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; 3) Presentation covers 12,000 years of human history at Grand Canyon, how we study archaeology today and how to become an archaeologist	3-7	1 class	none		
Prothero, Toni	928-526-9214	tprothero@earthling.net	GC Wolf Recovery Program	Benefits of Wolves in the Grand Canyon Region	Interactive presentation on why the Mexican wolf belongs in the Grand Canyon. Also learn about the benefits of this endangered species.	4-12	1 class	none		
Strohmeier, Brenda	853-3200	bstrohmeier@fs.fed.us	RMRS	1) Fire in the Forest 2) Livin' Like the Weeds Do 3) Livin' Like a Raptor 4) Wildlife Research Tools	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; 4) See what it takes to become a Forest Service researcher. Learn techniques used to study wildlife and practice your skills using real field equipment.	1) K-6 2) K-6 3) 4-8 4) 9-12	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, Alicia	556-7132	avaughan@usgs.gov	USGS	Mars Exploration by Orbiters, Rovers, and Landers	This presentation will give an overview of the various Mars missions and the highlights of scientific discovery.	5-12	any	PowerPoint		
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		
Wynne, Jut	523-7757	jut.wynne@nau.edu	USGS Colorado Plateau Research Station/NAU	1) Archaeology and Biology of Easter Island Caves 2) Bat Caves of Arizona, New Mexico and Belize 3) Mars Analog Caves of the Atacama Desert, Chile and Mojave Desert, CA 4) Cave Ecology and Life Underground		6-12	only multi class-sized group		yes	