

Bring your excitement of science with you into the K12 classroom, science museums, and community learning environments

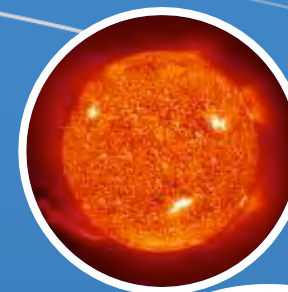
Scientists can contribute their excitement and expertise in a variety of roles. From visiting K12 classrooms, partnering with K12 teachers, giving public lectures, judging science fairs, or working with science education professionals on curriculum development. There is a role that fits your schedule, interests and strengths.

AGU scientists are working on a wide range of exciting research – share it!



Get Involved

AGU scientists have a role and responsibility to actively participate in educating the general public, teachers and students about science. There are numerous ways that scientists can contribute to improving the understanding of science in general and the Earth and Space Sciences. This brochure contains information about programs and activities that busy AGU scientists can participate. Make a difference in the world around us by becoming involved in science education.



Scientist Roles in EPO Guide



AGU SPA EPO

<http://www-ssc.igpp.ucla.edu/spa/index.html>



Space Physics and Aeronomy
Section EPO Committee



A Sample of Roles for AGU Scientists in EPO

This chart was created by Cheri Morrow to help Scientists identify potential roles that they may play in Education and Public Outreach (EPO). These are just a sample of these roles.



NASA Science Mission Directorate
Information for EPO support

<http://nasascience.nasa.gov/researchers/education-public-outreach>

NSF Research Experiences for
Undergraduates and Research
Experience for Teachers

<http://www.nsf.gov/crssprgm/reu/faculty.jsp>

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5736

Space Science Institute Resource for
Scientist Involvement in EPO

http://www.space-science.org/education/extra/resources_scientists_cd/index.html

		Nature of EPO Involvement		
		ADVOCATE	RESOURCE	PARTNER
Entry Point	K-12 STUDENTS	<ul style="list-style-type: none"> Participate in PTA 	<ul style="list-style-type: none"> Judge a science fair Answer student email Give tour of research facility 	<ul style="list-style-type: none"> Mentor a student Tutor a student
	IN-SERVICE K-12 TEACHERS	<ul style="list-style-type: none"> Speak out in support of appropriate professional development opportunities for teachers. 	<ul style="list-style-type: none"> Answer teacher email Present in teacher workshop 	<ul style="list-style-type: none"> Work with a teacher to implement curriculum. Hire a teacher intern.
	INTRO UNDERGRADUATE SCIENCE TEACHING	<ul style="list-style-type: none"> Speak out in a faculty meeting in favor of attention to educational research that supports the reform of undergraduate science teaching. Support the teaching profession in your science classroom. 	<ul style="list-style-type: none"> Teach a segment of a science or science methods course for pre-service teachers. 	<ul style="list-style-type: none"> Teach an intro science course that applies innovative inquiry-based methods Develop a science course or curriculum in your department for teachers-to-be.
	SCHOOLS OF EDUCATION (Science Courses for Pre-Service Teachers, Graduate Students, Faculty Members)	<ul style="list-style-type: none"> Speak out in your department or organization in favor of closer ties with Colleges of Education Support the teaching profession in your classroom 	<ul style="list-style-type: none"> Teach a segment of a science course or science methods course for pre-service teachers. Collaborate with education faculty to improve courses on teaching science 	<ul style="list-style-type: none"> Hire a graduate in education as evaluator of an education project Work with an Education professor to develop a new "science methods" course for teachers-to-be.
	SYSTEMIC CHANGE (District, State, National)	<ul style="list-style-type: none"> Speak out at professional meetings about the importance and value of scientist involvement in systemic change. 	<ul style="list-style-type: none"> Review science standards for science accuracy. 	<ul style="list-style-type: none"> Collaborate on writing or adapting science standards.
	EDUCATION MATERIALS DEV. (NSRC, EDC, Lawrence Hall)	<ul style="list-style-type: none"> Speak out at a school board meeting for adopting exemplary educational materials. 	<ul style="list-style-type: none"> Review science educational materials for science accuracy. 	<ul style="list-style-type: none"> Collaborate to create exemplary science education materials.
	INFORMAL EDUCATION (e.g., Science Centers, Scouts, Planetaria, Elderhostels, Amateur Astronomy Groups)	<ul style="list-style-type: none"> Participate on the board of a science center or planetarium. 	<ul style="list-style-type: none"> Review scripts for science exhibit or planetarium show. Serve as a science advisor for an exhibit 	<ul style="list-style-type: none"> Create content for a museum science exhibit or planetarium show. Serve as science coordinator for a scout troop
	PUBLIC OUTREACH (e.g., NPR, PBS, popular magazines/books/encyclopedias, lecture circuits, public websites)	<ul style="list-style-type: none"> Advocate that quality science news be covered by your local newspapers and television stations 	<ul style="list-style-type: none"> Give a public lecture Review an article or web site on science for accuracy and currency 	<ul style="list-style-type: none"> Collaborate in the production of a PBS television show Write an article for a popular science magazine
	EPO PROGRAM MANAGEMENT	<ul style="list-style-type: none"> Advocate the involvement of scientists in education and public outreach 	<ul style="list-style-type: none"> Assist a scientist with matching their talents and interests to an EPO project 	<ul style="list-style-type: none"> Design EPO programs with effective partnerships between scientists and educators.