



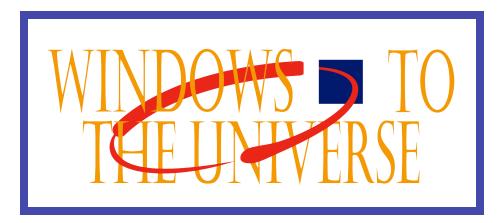


Our Strategic Objectives

Disseminate educational resources broadly to K-12 students/teachers and public

- Create Windows to the Universe web-based content and interfaces that are meaningful, interesting, and useful
- Develop online microworlds and virtual lab interactive learning tools as enrichment to K-12 curriculum (SEE-ME)





www.windows.ucar.edu





What have we accomplished?

- Outlined concepts of importance to K-12 educators about clouds, weather, climate, and modeling
 - Guiding development of web content for beginner, intermediate, and advanced learners (in Spanish and English)
 - Identifying key topics for creating K-12 standards-aligned interactive educational tools (SEE-ME)
- Prototyped a CMMAP public outreach web portal on Windows to the Universe Web site which will
 - Stream-lining access to CMMAP K-12 curriculum enhancement resources for teachers
 - Promoting general public science literacy about research through the CMMAP example
- Developed online interfaces through which scientists can submit resources and information to the web site







Scientists are experts and career role models in science, technology, engineering, and mathematics...contributing to overall public science literacy

- Personalize research by telling your story
- Motivate students to strive for academic excellence
- Reveal and share excitement for cutting-edge technology, visualizations, and modeling
- Demystify and illustrate the process of research and its benefits to society













Scientists enhance teachers' knowledge of science and the scientific endeavor

- Explain research and fundamental scientific principles behind it
 - Speak in professional development workshops
 - Answer questions in person, on web sites, by phone, or by mail
 - Provide tours of labs, field sites, facilities
- Help teachers to relate what they teach to current research and discoveries
 - Include them in "teacher-in-residence" lab and field experiences
 - Participate as an equal partner with them in learning



Scientists visit K-12 classrooms and are advocates for improving STEM education locally, nationally, and internationally

Familiar with K-12 classroom setting

- Know what to expect when they get there
- Engage and relate well to students
- Align content appropriately for grade level

Informed about challenges – helping as we can!





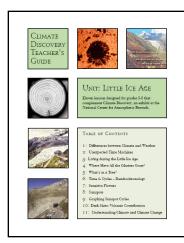


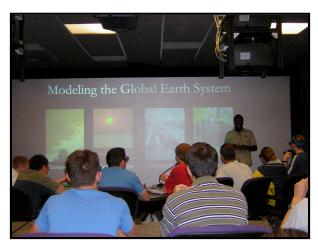


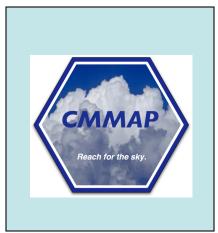
Scientists are technical advisors for content development in many different media

- Inform and validate the accuracy of resources
 - Draft or provide explanations about research that we can adapt for educational purposes
 - Serve as a point person for clarification of scientific concepts
- Provide scientific expertise and feedback to aid in development of educational kits, visualizations, modules, and interactive tools
- Share ideas and suggestions about potential resources for education











How we can help you!

- Many helpful resources, and more on the way...
 - www.windows.ucar.edu
 - Collections of hands-on science education activities for K-12 classrooms
 - Tips from "Scientists in the Schools"
 - Easy-to-do and build science demonstrations
 - Weather, clouds, climate, and modeling CMMAPrelated web-based information
- Support in reaching diverse audiences
- Sounding board for your ideas and questions



