

Science and Global Change

A Program of College Park Scholars

<http://www.geol.umd.edu/sgc>

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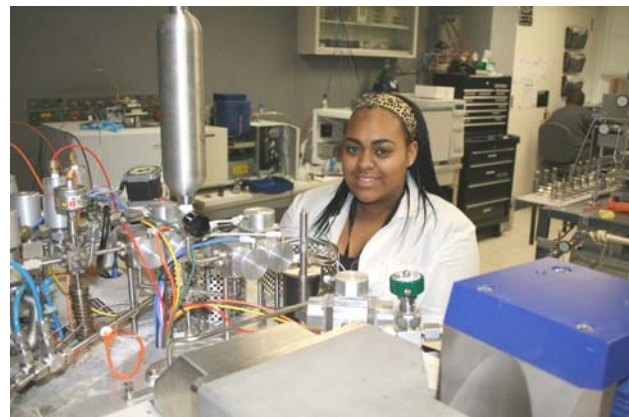
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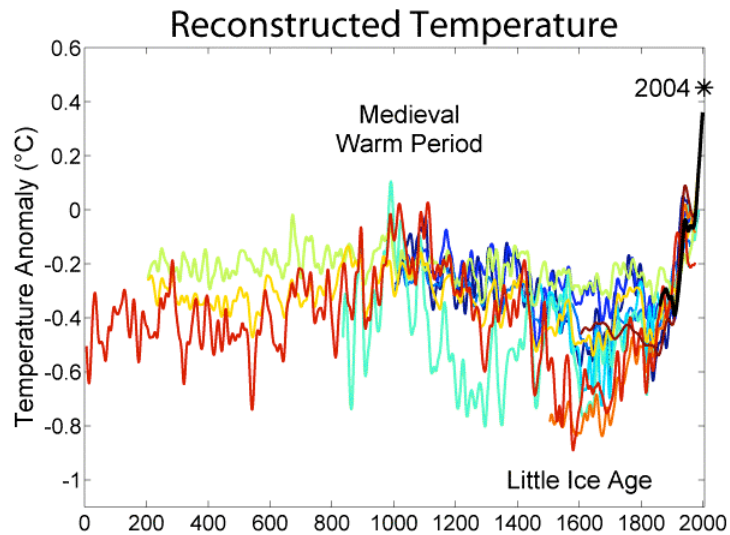
Science and Global Change (SGC) is a Scholars program about the scientific understanding of the world around us, and especially how we understand the forces (natural and human-generated) that result in changes on a global scale. It is designed so that students of all majors can explore the evidence, causes, and implications of past and present global change using the foundations of scientific practice, and examine the use of scientific knowledge and communication when making decisions for the future.

The University of Maryland is a world leader in global change research. Through SGC, first- and second-year students will examine what scientists have discovered about changes in Earth's systems, how that knowledge is uncovered, and how policy makers use it. SGC students will learn how researchers study natural variations, cycles, and episodes in Earth's climate and other systems on time scales from tens to billions of years; and how the knowledge gained is integrated with modern discoveries of the impact of human technologies on these systems. SGC students will participate in group trips off-campus, in small class activities, and in discussions on important topics with each other and their program faculty.

SGC is intended for anyone seeking to understand the physical world in which they will live and work, and eager to connect with faculty and students sharing that interest in the Scholars residential community setting. It matches especially well with majors in the physical sciences (Physics, Geology, Atmospheric and Oceanic Sciences), Chemistry, Mathematics, and Computer Sciences.



About Science and Global Change



SGC students study (among other topics):

- **The Scientific Method and Critical Thinking Skills**
- **How Scientists Measure Global Changes Past and Present**
- **How Computer Models Are Used to Predict Future Global Changes**
- **How Scientists Work With Engineers and Policy Makers to Make Informed Plans for the Future**

Science and Global Change students discover aspects of these topics through a number of different means:

- **Innovative Teaching Techniques in an Interdisciplinary and Multidisciplinary Colloquium**
- **Off-Campus Experiences**, including visits to:
 - **Global Change Research Institutions**
 - **Local Sites of Natural Interest**
 - **Natural History & Other Museums**
 - **Sponsored Field Courses** (including trips to **Arizona**, the **Galápagos**, and planned trip to **Iceland and Greenland**)
- **Hands-On Development of Information Technology Skills**
- **Individual Internship and Research Experiences**
- **Shared Living Opportunities with Other Students in Your Program**

As with other Scholars programs, Science and Global Change is a Living-Learning Community: students share many of the same classes and for the most part share common housing.

Please explore our website (<http://www.geol.umd.edu/sgc/>) to learn more about the program, or contact the SGC faculty for more information.

Facilities

The SGC faculty offices are in 1216 and 1218 Centreville Hall. The SGC computer lab is in 1217 Centreville Hall. Colloquium meetings are in the Cambridge Community Center.