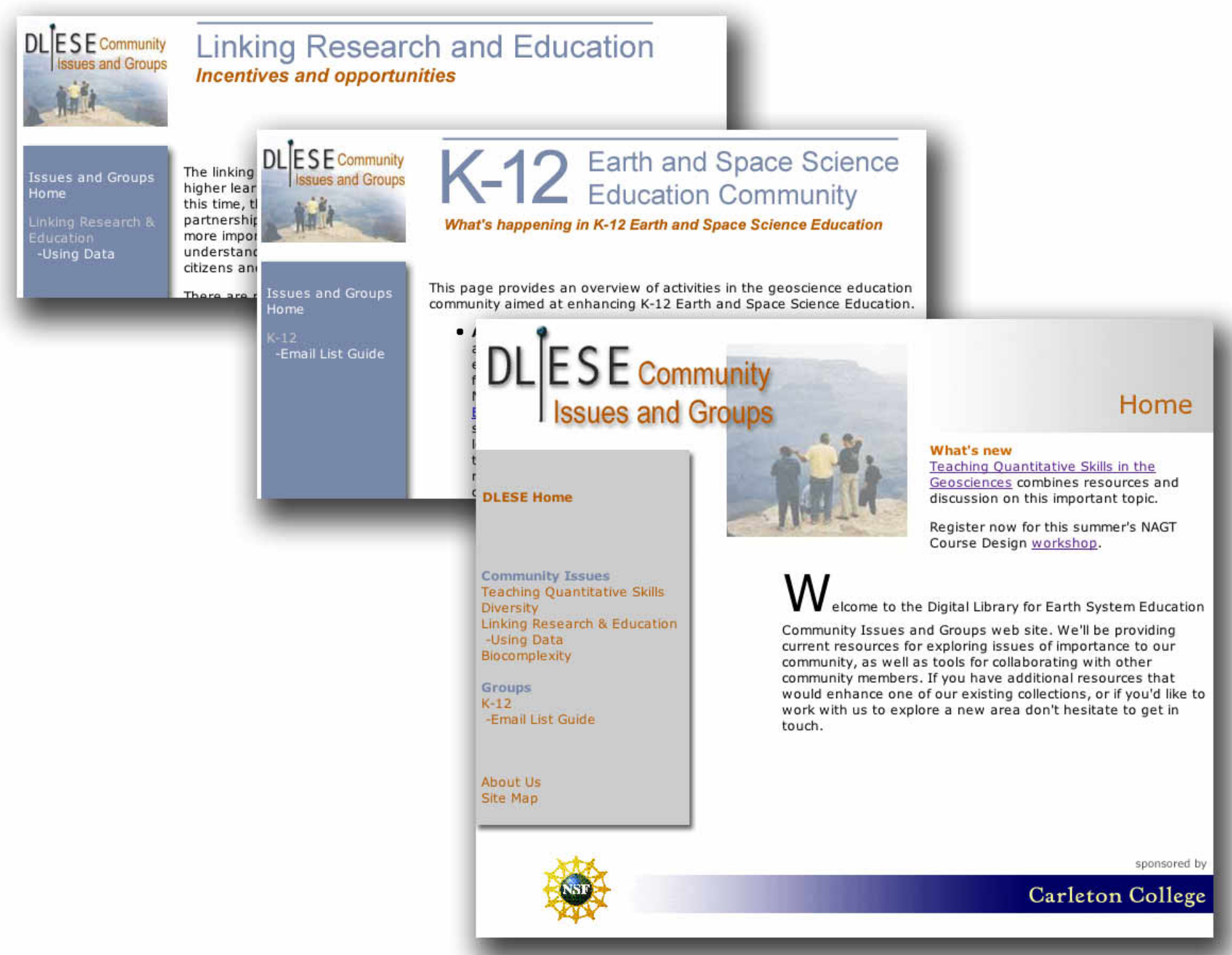


# Supporting Professional Development for the Earth System Community

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## DLESE Community Issues and Groups

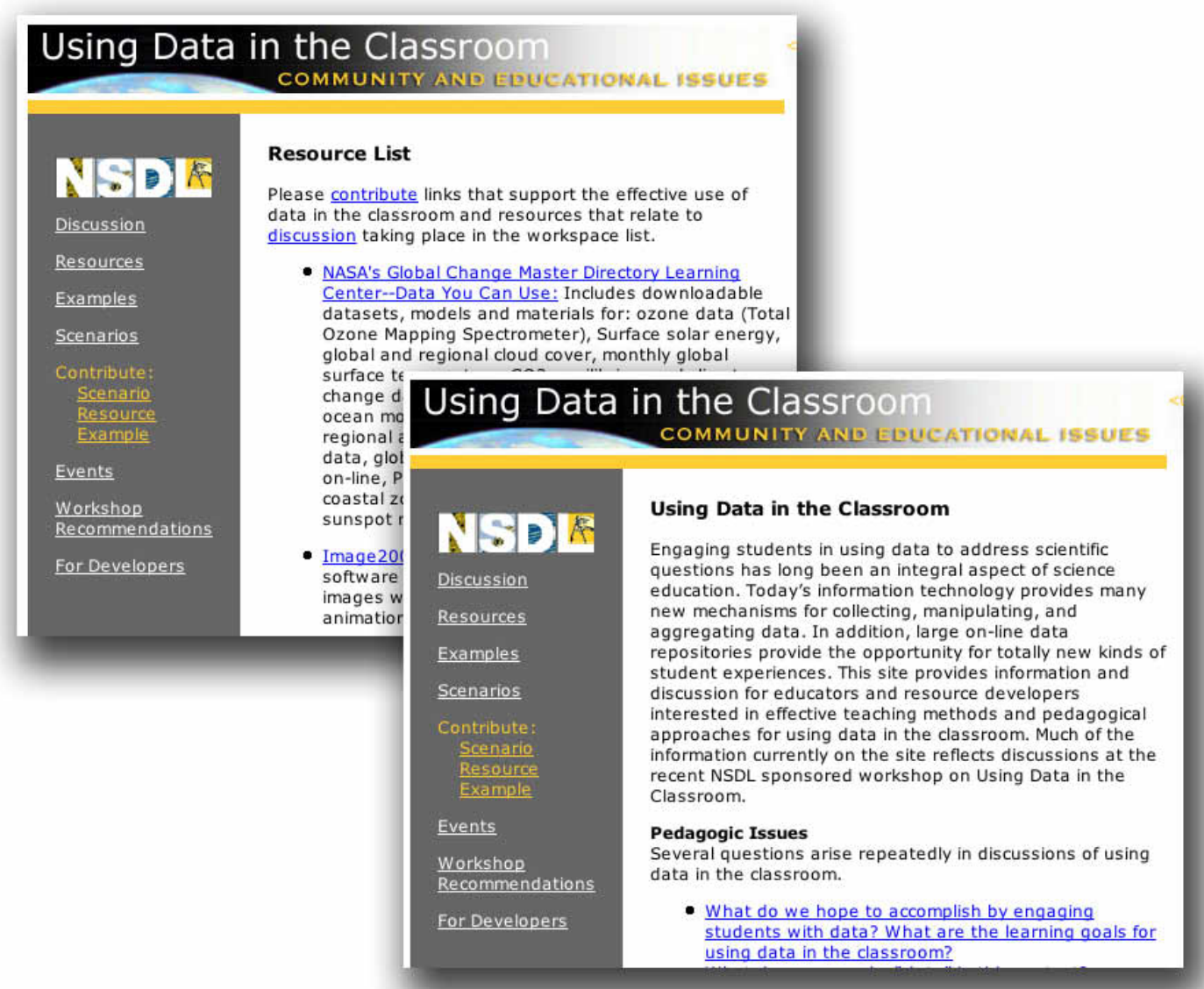
This site provides an entry point for learning about parts of our community and the issues that are currently of high interest. At the present time the site contains initial prototypes with information about activities supporting K-12 and undergraduate education, Solid Earth Science and resources pertaining to issues including: Integrating Research and Education, Biocomplexity, Teaching Quantitative Skills, and Diversity.



## Using Data in the Classroom

Engaging students in using data to address scientific questions has long been an integral aspect of science education. Today's information technology provides many new mechanisms for collecting, manipulating, and aggregating data. In addition, large on-line data repositories provide the opportunity for totally new kinds of student experiences.

This site provides information and discussion for educators and resource developers interested in effective teaching methods and pedagogical approaches for using data in the classroom. Much of the information currently on the site reflects discussions at the recent NSDL sponsored workshop on Using Data in the Classroom.



## Are you:

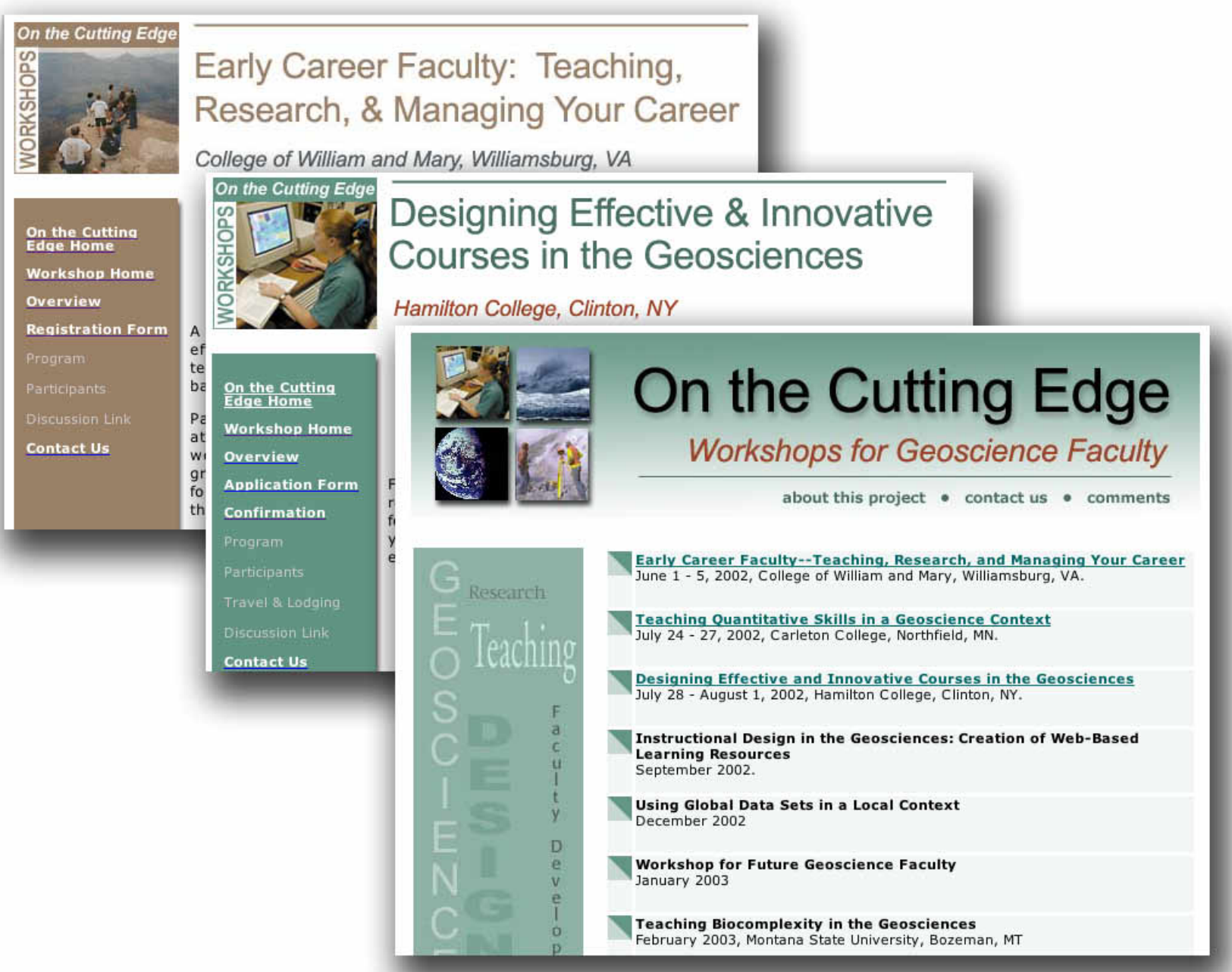
- \*Up to speed on what's happening in Earth system education?
- \*Engaging students in working with data?
- \*Worried about helping your students develop quantitative skills?
- \*Teaching in ways that reflect our best understanding of how students learn?
- \*Bringing the latest research into your classroom?
- \*Benefiting from the experience of your peers across the country?
- \*Sharing your hard-won experience and expertise with your peers?
- \*Developing resources that could benefit from educator input?
- \*Wanting to share information about your project with the community?

The Science Education Resource Center (SERC) at Carleton College is developing communication networks and professional development opportunities for geoscience educators. Join us in exploring topics like these:

[dlesecommunity.carleton.edu](http://dlesecommunity.carleton.edu)

## On the Cutting Edge: Workshops for Geoscience Faculty

The NAGT/DLESE On the Cutting Edge project helps geoscience faculty stay up-to-date with both geoscience research and teaching methods. The workshop series and web site combine to provide professional development opportunities, resources, and opportunities for faculty. The program facilitates on-line and in person interaction with colleagues around the world who are focused on improving their teaching. An integral aspect of the project is development of an expanding community of geoscience educators with a strong and diverse leadership.



## Teaching Quantitative Skills in the Geosciences

Quantitative skills are an essential tool for both the geoscientist and the citizen. Helping students master skills ranging from simple arithmetic or graphing, to sophisticated use of equations and models is an important aspect of teaching geoscience at the undergraduate level.

This site provides an overview of the key issues surrounding teaching quantitative skills. This site features examples and focused discussion on instructional methods, a collection of teaching materials, student resources and current news and events.



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