

# Workshop: Mathematics of Planet Earth 2013+ Global Change

University of California-Berkeley  
Berkeley, California

May 19 – 21, 2014



## About the Workshop

A workshop “Global Change” will be held at UC-Berkeley on **May 19 – 21, 2014**. The workshop aims to expose students and junior researchers to the challenges facing our planet, the role of the mathematical sciences in addressing those challenges, and the opportunities to get involved in the effort. Funds are available to support participants to attend this workshop and to participate in follow-up activities.

The planet is constantly changing, but the pace of change has accelerated as a result of human activity. Construction and deforestation change habitats; fishing affects fish populations; fossil fuel combustion leads to atmospheric greenhouse gas buildup; commerce and transport introduce non-native species. We need to monitor global change to understand processes leading to change, learn how to mitigate and adapt to its effects, determine if we are meeting goals for our planet, and get early warning of dangerous trends.

## About Mathematics of Planet Earth 2013+

Mathematics of Planet Earth 2013 –Plus (MPE 2013+) grew out of Mathematics of Planet Earth 2013, an initiative of mathematical sciences organizations around the world designed to showcase the ways in which the mathematical sciences can be useful in tackling our world's problems. For more about MPE 2013, see [www.mpe2013.org](http://www.mpe2013.org).



As MPE developed, it became clear there was momentum to propel it beyond 2013. The problems facing our planet will persist, and so the Center for Discrete Mathematics and Theoretical Computer Science (DIMACS) initiated a new project, (MPE 2013+, which aims to involve mathematical scientists in laying the groundwork for a long-term effort to surmount them and to sustain MPE activities beyond 2013.

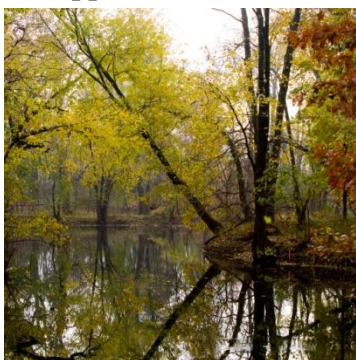
## How to Participate

Financial support is available for graduate students, postdocs, and faculty researchers who have earned a doctorate within the last three years to attend the **Global Change workshop**. An application form can be found at

<http://dimacs.rutgers.edu/Workshops/GlobalChange/>.

The application should include both a registration form to attend and an application for financial support. Review of applications will begin **February 15, 2014** and continue until all slots are filled.

For questions or more information, see the website or contact Eugene Fiorini, Associate Director of DIMACS & Program Coordinator ([mpe2013p@dimacs.rutgers.edu](mailto:mpe2013p@dimacs.rutgers.edu)).



The Workshop is organized by the Center for Discrete Mathematics and Theoretical Computer Science (DIMACS), with funding provided by the US National Science Foundation.

[http://dimacs.rutgers.edu/SpecialYears/2013\\_MPE/](http://dimacs.rutgers.edu/SpecialYears/2013_MPE/)



**DIMACS**  
Center for Discrete Mathematics & Theoretical Computer Science  
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