

# Workshop: Mathematics of Planet Earth 2013+ Sustainable Human Environments

**DIMACS Center, Rutgers University**  
**Piscataway, New Jersey**

**April 23 – 25, 2014**



## About the Workshop

A workshop “Sustainable Human Environments” will be held at the DIMACS Center-Rutgers University on **April 23 – 25, 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.

In 1900 only 13% of the world’s population lived in cities, but by 2050 that number will have risen to 70%. Rapidly growing urban environments present new and evolving challenges: growing needs for energy and water, impacts on greenhouse gases, public health, safety, and security. As city expansion continues apace, mathematical scientists can play a key role in shaping sustainable living environments.

## 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 **Sustainable Human Environments workshop**. An application form can be found at

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



The application should include both a registration form to attend and an application for financial support. Review of applications will begin **February 1, 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  
Founded as a National Science Foundation Science and  
Technology Center



Photos: Tamra Carpenter

