

DIMACS Special Program: Mathematics of Planet Earth 2013+



About Mathematics of Planet Earth (MPE)

Mathematics of Planet Earth 2013+ grew out of the year-long initiative, Mathematics of Planet Earth 2013, by mathematical sciences organizations around the world 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.

As MPE developed, it became clear there was momentum to propel it beyond 2013. The problems facing our planet are likely to persist far into the future, leading the Center for Discrete Mathematics and Theoretical Computer Science (DIMACS) to launch a new project, MPE2013+, to involve mathematical scientists in laying the groundwork for a long-term effort to surmount the Earth's problems and to sustain MPE activities beyond 2013.

MPE Follow-up Activities

Follow-up activities are being organized from the first round of six research and education workshops, held between 2013 - 2017. These follow-up activities include:

- **Citizen Science – Value and Challenges in using it for Decision Making**
Organizer: Alexis Tsoukias Dates: December 14- 15, 2015 (Paris)
- **Modeling of Infectious Diseases with a Focus on Ebola**
Organizers: Martial Ndeffo Mbah, Fred Roberts, Abdul-Aziz Yakubu
Dates: March 6-7, 2016 (Dakar, Senegal)
- **Engaging Community Colleges in Mathematics of Sustainability**
Organizers: Gene Fiorini and Katrina Palmer Date: May 19, 2016 (Northampton Com. College)
- **Engage preK-12 Teacher Preparation in Natural Resources Sustainability**
Organizer: Andrea Weinberg Dates: June 22-24, 2016 (Rocky Mtn YMCA, Estes Park, CO)
- **Material Transport in Geophysical Flows**
Organizer: Eric Forgoston Dates: July 27-28, 2016 (Montclair State University)
- **Zika Workshop**
Organizers: Michael Boots, Colin Carlson, Midge Cozzens, Wayne Getz, Eva Harris, Fred Roberts
Dates: December 5-6, 2016 (UC Berkeley)
- **Appropriate Complexity Modeling of the Impacts of Global Change on Ecosystems**
Organizer: Wayne Getz Dates: March 27-29, 2017 (UC Berkeley)
- **Resilience Quantification Workshop**
Organizer: Mary Lou Zeeman Date: March, 2017
- **Industrial Energy Problem Solving**
Organizers: Jane White and Barbara Cozzens Date: TBD
- **Mathematics and Sustainability Undergraduate Courses**
Organizer: Lou Gross Date: TBD
- **How to Communicate Global Change**
Organizer: Holly Gaff Date: TBD
- **Computational Methods for Critical Infrastructure Resilience**
Organizer: Tom Sharkey Date: TBD



How to Participate

Information on these MPE 2013+ programs can be found at the program website:

http://dimacs.rutgers.edu/SpecialYears/2013_MPE/

For questions or more information, see the website or contact Margaret Cozzens, (midgec@dimacs.rutgers.edu).

These Workshops are organized by the Center for Discrete Mathematics and Theoretical Computer Science (DIMACS), with funding provided by the US National Science Foundation.



Photos: Tamra Carpenter