

# Mathematics

## of Planet Earth



A Joint Initiative  
of North American  
Mathematics Institutes

Earth is a planet with dynamic processes in the mantle, oceans and atmosphere creating climate, causing natural disasters, and influencing fundamental aspects of life and life-supporting systems. In addition to these natural processes, humans have developed systems of great complexity, including economic and financial systems; the world wide web; frameworks for resource management, transportation and health care delivery; and sophisticated social organizations. Human activity has increased to the point where it influences the global climate, impacts the ability of the planet to feed itself and threatens the stability of these systems. Issues such as climate change, sustainability, man-made disasters, control of diseases and epidemics, management of resources, and global integration have come to the fore.

To meet these many challenges,  
**Mathematics of Planet Earth 2013**  
will include programs on

- Weather, climate, and environment
- Health, human and social services
- Planetary resources
- Population dynamics, ecology and genomics of species
- Energy utilization and efficiency
- Connecting the Planet together
- Geophysical processes
- Global economics, safety and stability

Other partners from North America and around the world are invited to join. For further details, including information regarding call for proposals, see the website.

# www.mpe2013.org

