

1086-AC-1502 **Mary Lou Zeeman*** (mlzeeman@bowdoin.edu) and **Gene Fiorini***
(gfiorini@dimacs.rutgers.edu). *Planet Earth in the Mathematics Curriculum.*

Understanding Planet Earth has driven research in many elegant fields of mathematics and has always inspired the mathematics curriculum. Our courses have been filled with examples from physics for centuries. More recently, we have included examples from biology, medicine, economics, computer science and the social sciences. Pressing sustainability questions facing the planet are now shaping new, cross-disciplinary research questions. This is inspiring new curriculum innovations to help students develop insight into the mathematics underlying those questions. We will visit some of the Mathematics of Planet Earth curriculum materials available on the MPE 2013 website. (Received September 22, 2012)