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Mary Lou Zeeman*, Bowdoin College, Brunswick, ME. *Mathematical challenges in climate and sustainability.*

How are climate and sustainability applications shaping mathematics questions? What makes these research challenges different from other applications? How do we prepare students to work in these areas? In this talk and the associated MAA Invited Paper Session we will discuss these questions, describing some of the pressing research questions, and some of the interdisciplinary curriculum innovations they have inspired. (Received March 09, 2011)