

1077-VH-2319 **Gerald Kobylski*** (Gerald.Kobylski@usma.edu) and **Hilary DeRemigio Fletcher**
(Hilary.Fletcher@usma.edu). *Creating an Institutional Interdisciplinary Culture with
Mathematicians at the Lead.*

Recently our institution's leadership asked faculty leaders, including several mathematicians, to study how our academic program could become more interdisciplinary. We are seeking to integrate our curriculum in more meaningful ways and expose our students to large-scale interdisciplinary issues. Our national leaders have declared energy management an important issue for the future. As educators, we have a responsibility and a wonderful opportunity to introduce our students to this issue and to use it in our learning model to develop them as better interdisciplinary problem solvers who are able to think both critically and creatively. In this effort students will study energy science and policy using modules and case studies that will allow them to recognize and appreciate diverse perspectives on complex situations. They will employ an interdisciplinary approach to understanding the challenges and consequences of energy science. During this session we will briefly discuss our interdisciplinary planning process and then focus on how mathematics will play a leading role in this challenging but very exciting endeavor. We will discuss several modeling and calculus examples that address energy issues and that will play a significant role in this institutional effort. (Received September 22, 2011)