

1023-P1-1021      **Sarah-Marie Belcastro\*** ([smbelcas@toroidalsnark.net](mailto:smbelcas@toroidalsnark.net)). *Undergraduate Teaching which Leads to Undergraduate Research.*

Undergraduate junior staff at the Hampshire College Summer Studies in Mathematics for high-ability high-school students learn material more deeply as they teach it, acquire mathematics which is new to them, and learn new material as they observe others teach. Independently and collaboratively they investigate mathematics, gaining research-like experiences as they redevelop known results and occasionally discover new ones. The benefits HCSSiM junior staff experience can be replicated for academic-year students. In this talk we will describe how such an academic-year program might be structured, give suggestions for appropriate topics and resources where one can learn about them, and explain the types of work faculty can expect to do in order to pull this off successfully. We will conclude by highlighting the key features of HCSSiM which invite undergraduate student interest, participation, and eventual research. (Received September 24, 2006)