

1118-97-10

Amy Cohen* (acc@math.rutgers.edu), Dept. of Mathematics Hill Center Rutgers, 118 Frelinghuysen Road, Piscataway, NJ 08854-8019. *Research mathematicians working in the mathematical education of teachers.*

At large public universities, research-active mathematicians can be involved in the mathematical education of teachers in several ways including importantly (1) the design and delivery of mathematics courses for prospective teachers,(2) participation in summer institutes for early- and mid-career teachers, and (3) participation in math circles for teachers. This talk describes "what worked and why" at Rutgers University in NSF-funded summer institutes for middle school teachers, in summer institutes for upper primary grade teachers, and the interaction of those institutes with the design and delivery of academic year courses for prospective teachers at all K-12 levels and of a required semester-long seminar for prospective teaching assistants. Interaction with mid-career teachers has proved intellectually engaging, challenging, and re-invigorating – sometimes in happy contrast to work with less engaged undergraduates. (Received October 05, 2015)