

1056-H7-1930 **Natasha M Speer*** (speer@math.umaine.edu), 234 Neville Hall, Department of Mathematics and Statistics, University of Maine, Orono, ME 04469. *The history, impact, and current efforts of Emerging Scholars Programs.*

Uri Treisman's Emerging Scholars Program (ESP) has a 30-year record of improving minority student achievement and retention thus enabling students to move through the calculus gate and into technical fields. This talk will include an overview of the history of ESP, impact of ESP on students, and information about current efforts to disseminate it to more institutions. Treisman studied work habits of successful and unsuccessful students and designed an instructional model where ethnically diverse groups of students worked together on challenging problems. Instructors create problem sets that require ideas from multiple chapters, fill gaps in student preparation without resorting to remediation and teach students to persevere. Unlike many retention programs, ESP was designed as an honors-level program. The results of ESPs at a variety of institutions are impressive. Qualitative and quantitative evaluations demonstrate higher average grades and graduation rates, increased persistence in calculus-based majors, and increases in numbers of minority math majors. Over the past several years, efforts have been made to further disseminate ESP and make resources available to faculty who wish to establish ESPs on their campuses. These efforts and plans for expanding them will be described. (Received September 22, 2009)