

1077-K1-2002      **Bonnie Gold\*** (bgold@monmouth.edu). *Philosophy (but not philosophers) of mathematics does influence mathematical practice.* Preliminary report.

Since most philosophers of mathematics tend to ignore current mathematical practice outside of foundations, it is not surprising that mathematicians tend to ignore current philosophy of mathematics. I will argue, however, that in a deeper sense a mathematician's philosophy of mathematics, even if not coherently articulated, does affect his/her mathematical activities: the types of questions considered, whether (s)he focuses more on individual problems or on mathematical structures, the general direction of mathematical work over a time interval. Further, investigating, rather than suppressing, these underlying motivations can lead to interesting philosophical questions. (Received September 21, 2011)