Research With Scanning Tip Microscopy

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**a. Forces**


**b. Surfaces**


During the current granting period, we have expanded our work and published papers in (a) forces, (b) surfaces, and (c) biology. The titles of the papers explain in some detail the directions we chose to take in the broad range of areas associated with scanning tunneling microscopy and atomic force microscopy. The work reported here includes investigations done in air, liquids, and under ultra-high vacuum conditions, using Digital Instruments' Nanoscope-II (three systems), Nanoscope-III, and McAllister UHV STM head. The many names appearing in the publications attest to the strong collaboration with other groups. The support of the AFOSR has been a key factor in making our research possible, and we plan to continue this effort during the second granting period.

a. Surfaces


b. Forces


c. Biology


