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Cover photograph (Copyright © 2009, American Society for Microbiology. All Rights Reserved.): Measurement of *Shewanella oneidensis* MR-1 and its demineralizing calcite interface. An atomic force microscopy measurement of a single bacterium on calcite has been digitally sliced to reveal the hidden bacterium/substrate interface to convey the focus of this nondestructive imaging technology. The color bar scales height as follows: red for high and blue for low. A correlogram (an oscillating graph of raw interferometric data from a single pixel) with two distinct peaks indicates the precise three-dimensional coordinates. The red arrows connect the first peak (bacterial surface height) and second peak (calcite surface height) to their respective locations. (See related article on page 1445.)