

**The Hughes Science Pipeline Project  
presents**

**Distinguished Women in Science: A Lecture Series**

**The Power of Images in Communicating Science and Technology**

**by Felice Frankel**

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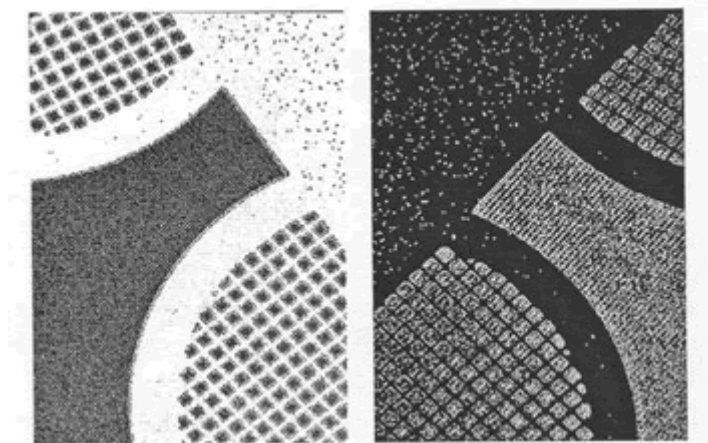
**Book signing of *On the Surface of Things*, 4:30 p.m.**

**Slide Talk, 5:00 p.m.**

**Sulzberger Parlor, Barnard College**

Human beings assimilate the world chiefly through their sense of sight. It is not surprising, therefore, that scientists continually seek new and better ways to see, in order to become better observers. With only the occasional exception, science forgets that the phenomena whose characteristics it seeks to understand may be stunningly beautiful when skillfully visualized. Unfortunately, generating images is usually carried out with only minimal expertise with virtually no consideration for their aesthetic or communicative qualities.

An arresting image is the butterfly net that can snare the attention. Emotional engagement, coupled with intellectual curiosity, is the next step toward understanding. This talk encourages researchers to think of images as a means of communicating results to a range of audiences and to stimulate thinking about the research.



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These images (originally in color) are of the same sample and are examples of two techniques in optical microscopy: brightfield using Nomarski Differential Contrast and darkfield. Using more than one source of illumination adds information along with creating interesting aesthetic comparisons.

The sample is of crystal growth of CA Calcite patterned on a self-assembled monolayer (SAM). Original measures about 1 mm. (Research by J. Aizenberg, Harvard University.)