

November/December 2010

# RESOURCE

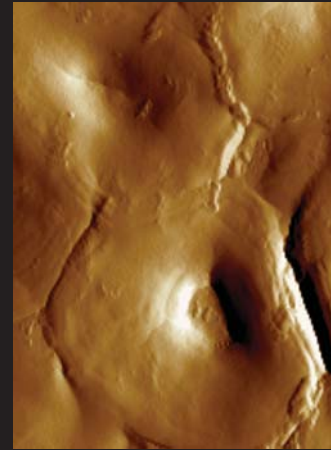
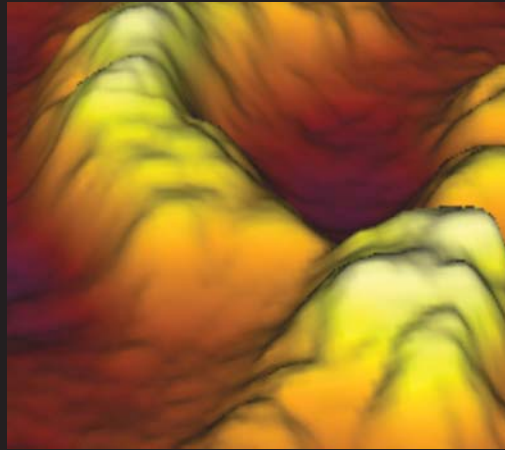
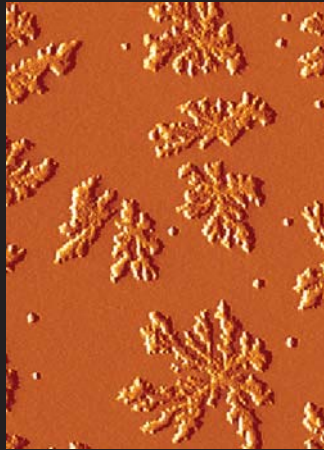
Engineering & Technology for a Sustainable World



## VISUAL CHALLENGE

**Statements Without Words**

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**Photography: NANOBIO TECHNOLOGY LABORATORY**

National Food Research Institute, Tsukuba, Ibaraki, Japan, submitted by Suresh Neethirajan

**SOLUTIONS FROM THE NANO WORLD**

Title, top left: **PLATINUM FLOWERS**

Subject: Surface morphology of platinum nanocrystals observed from nanowater using atomic force microscopy. Scan size: 4 microns.

Title, top middle: **GREAT SAND DUNES**

Subject: Three-dimensional surface reconstructed atomic scale images of plant chromosomes. Scale: 200 nanometer.

Title, top right: **MARTIAN CRATERS**

Subject: Atomic scale image of complex crater (5 microns) on starch granule surface prepared from buckwheat seeds.



**Photographer: ART JOHNSON**

Bioengineering professor, University of Maryland, College Park, USA

Title: **HOLD STILL**

Subject: Graduate student Patricia Lehtola measures respiratory resistance of a sheep with an airflow perturbation device, currently in development.