



# LOOK AGAIN... LOOK AGAIN...

*Just for Fun!*

See if you can find the 8 differences in each set of images.

## The proposal flowers of Mr. Copper to Ms. Nutmeg *Myristica fragrans*

Microscale clusters of copper-myristic acid formed on a copper foil. Imaged with a secondary electron detector using Zeiss Ultra FE SEM.

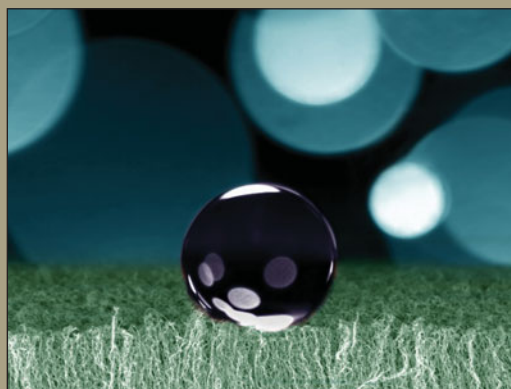
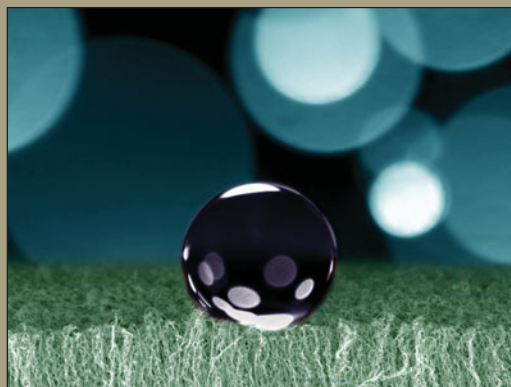
Phulseok Kim, Harvard University, Cambridge, Mass., USA



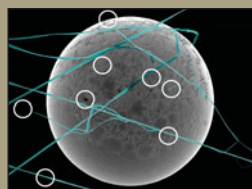
## Pearl on grass

The rich purple "pearl" is a sessile water droplet ( $D \sim 500 \mu\text{m}$ ) on a superhydrophobic surface, which was created by first growing a rough copper oxide nanostructure on a copper substrate in a heated alkaline solution, and then this nanostructure was functionalized with a fluoro-carbon coating. The clouds in the calm blue "sky" are microdroplets bouncing on the same superhydrophobic surface, but out of the focal plane of the high-speed camera used to capture the image. The soft green "grass" is a dense carpet of carbon nanotubes ( $D \sim 10 \text{ nm}$ ) imaged with field-emission scanning electron microscopy, which was digitally superimposed onto the image of the droplet.

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June 2015 answer key



The answers will be in the October 2015 issue.

Images on the top were submitted to the Materials Research Society "Science as Art" competition. Images on the bottom were modified in Adobe Photoshop for this "Look Again" activity.