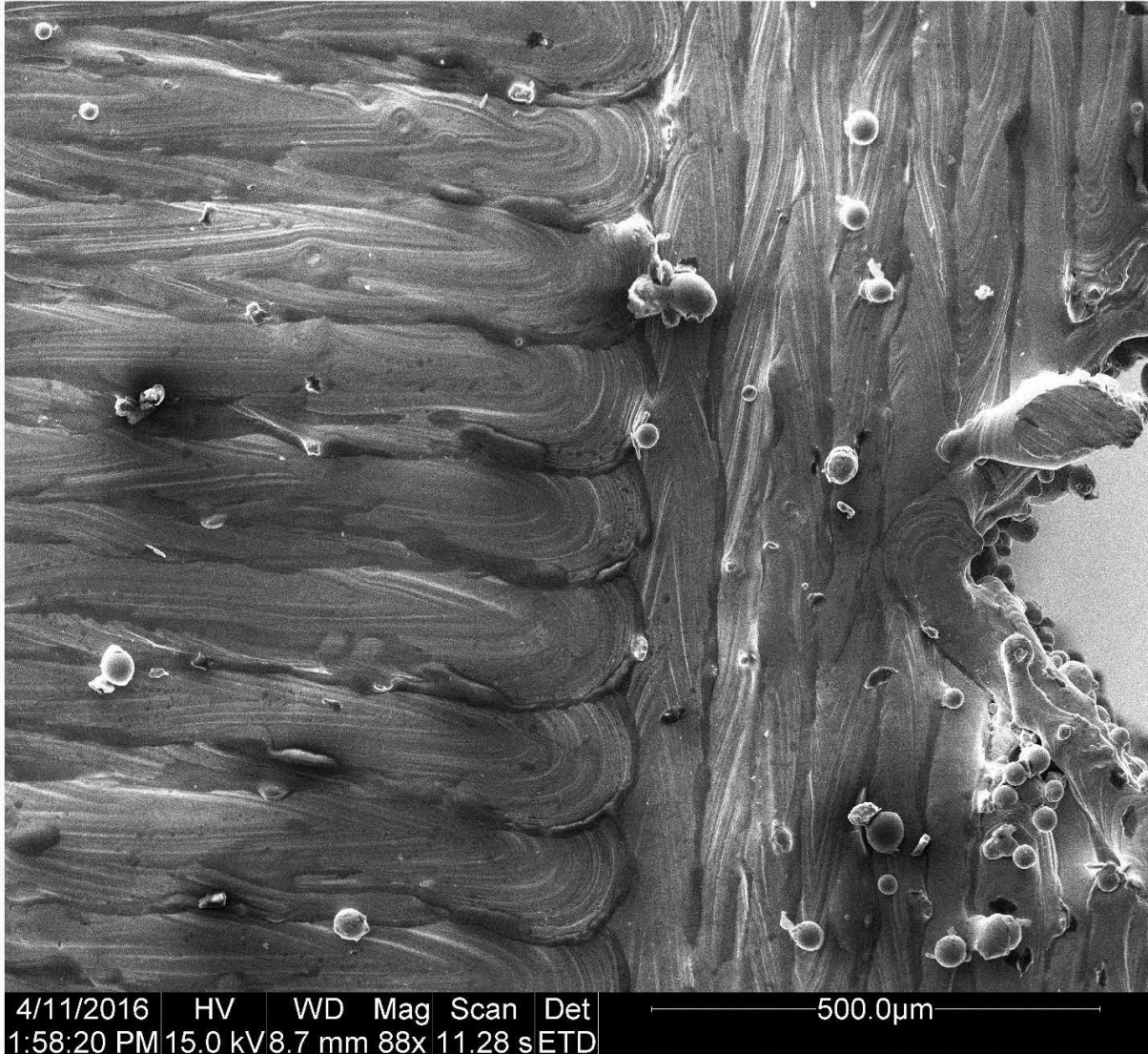


Forgeng Photo Contest: Some Winning Photos

1st Place – 2016



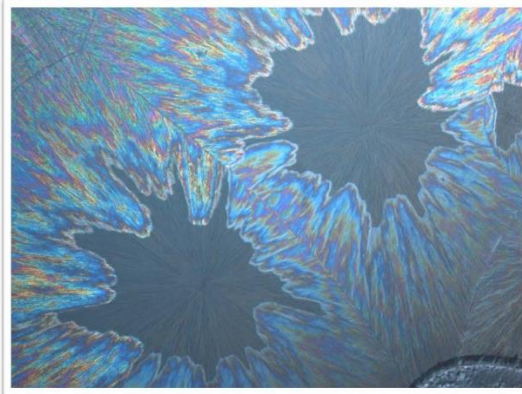
Heterogeneous Anisotropic Discontinuum

21-6-9 stainless steel specimen fabricated by a ConceptLaser selective laser melting machine. The intersection of two micro-weld scan directions is depicted at the center of the image. Small partially melted particles dot the landscape of the part.

David Otsu

Polarizing Change

By Liam Russell

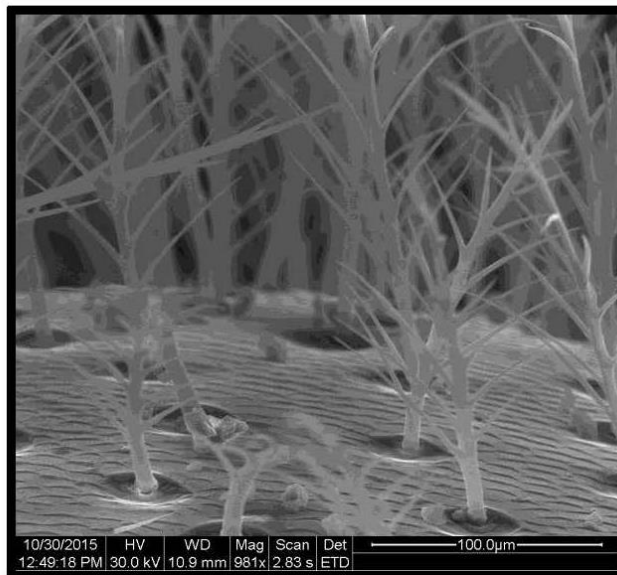


A Polarized Light Microscope was used at 100x magnification. Pure Polyethylene Oxide (PEO) Mw:900,000 was melted and pressed between Trubond 380 glass slides, then cooled to room temperature.

Spherulites nucleate and grow radially during the cooling of linear thermoplastic polymers. PEO terminates in a hydrophilic end group, and when cooled between hydrophilic glass slides, PEO delaminates along boundaries and radii and binds to glass.

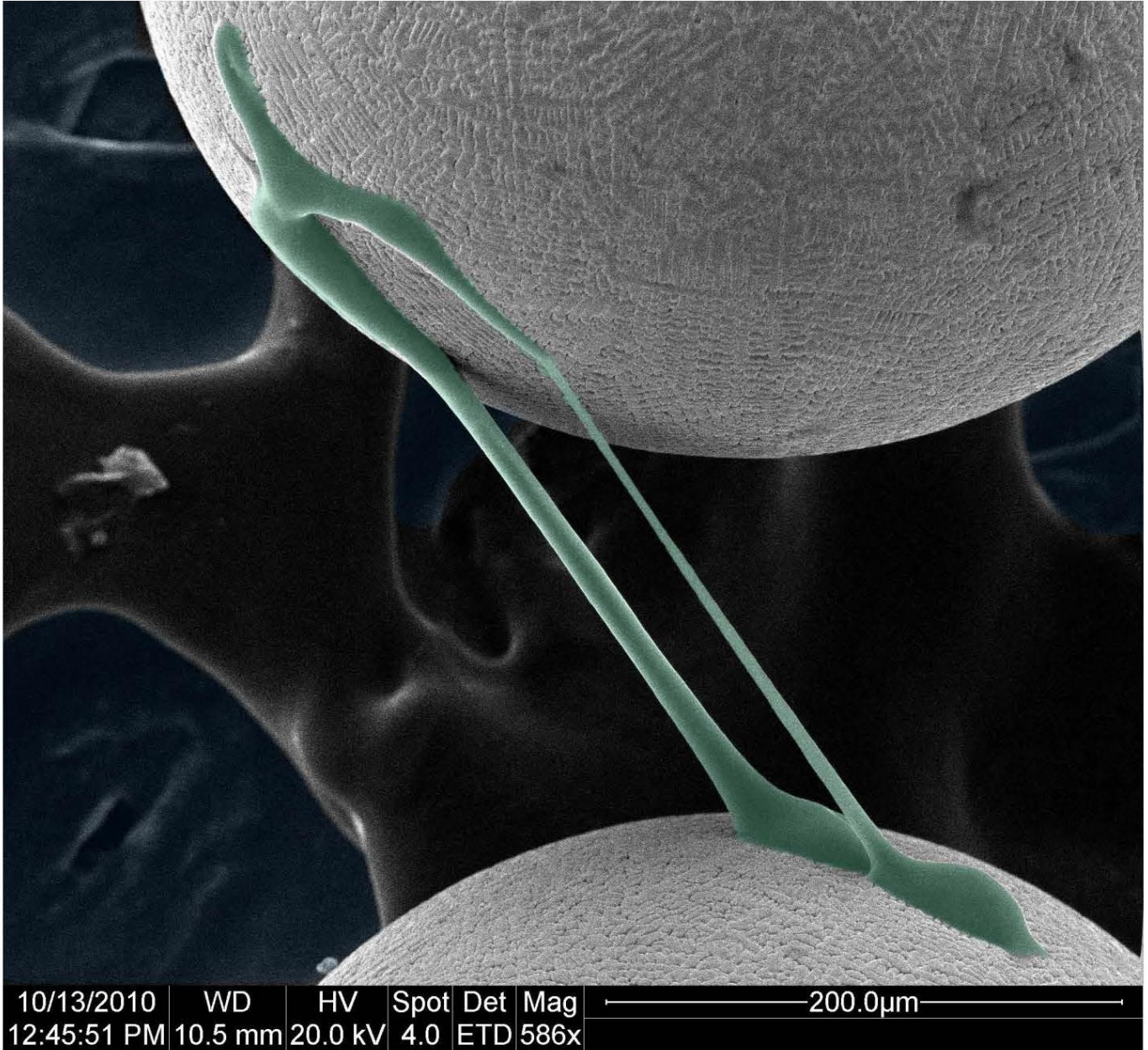
Polyethylene Oxide Mw: 900,000

“Bumblebee Forest”



One can liken the rear thoracic band of a bumblebee to that of a forest. The branched hair follicles are the trees, serving as electrostatic receptors that attract and collect pollen. The "roots" at the base of each follicle are receptor cells, which endow a precise sense of touch.

Elliot Frey



The Bridge Between Two Worlds

Scanning Electron Microscope image of two cobalt chromium spheres bridged by conductive carbon tape adhesive. The adhesive forms a bridge the two small, alien worlds with the depth of space in the background. This picture was taken by Eric Hahn on October 13, 2010.