

November 21, 2013



## Happy Thanksgiving from CPG!

This newsletter summarizes testing techniques, materials, and new announcements from Cambridge Polymer Group.

- (1) [2013 MRS Exhibit & Presentation on Biodegradable Thiol-Modified Polyvinyl Alcohol Hydrogels](#)
- (2) [How dense is that?](#)
- (3) [Updates from the November F04 ASTM Meeting](#)

### [Visit CPG at the 2013 Materials Research Society Fall Exhibit in Boston & Attend Hydrogel Presentation](#)



Meet CPG scientists at **booth 1312** and attend a Tuesday afternoon presentation on Hydrogels

Exhibiting Hours:

Tuesday, December 3 11 a.m. - 5:30 p.m.

Wednesday, December 4 11 a.m. - 6 p.m.

Thursday, December 5 10 a.m. - 1:30 p.m.

#### [Presentation on Biodegradable Thiol- Modified Polyvinyl Alcohol Hydrogels](#)

CPG researchers Yuri Svirkin, Adam Kozak, and Gavin Braithwaite will be presenting their work on thiol-

modified PVA hydrogels at the Fall Materials Research Society Meeting in Boston on December 3rd at 4:45 pm in the Commonwealth Room, 3rd floor, Sheraton Boston Hotel (Paper E5.09). Learn more about the presentation [here](#).

### [How dense is that?](#)



Density, or the ratio of the mass of an object to its volume, is a commonly reported material parameter. Density is influenced by the chemical composition of the material, crystallinity, and porosity. The chemical composition depends on the elements that make up the material. Plastics are normally composed of hydrocarbons (carbon and hydrogen), which have lower atomic masses

and tend to have densities less than 1 g/ml. Metals, which have higher atomic masses, tend to have densities in excess of 1 g/ml. Water at room temperature has a density around 1 g/ml, which is why plastics tend to float, and metals tend to sink in water. Learn more about the density of solid materials and methods of measurement by reading more [here](#).



## Updates from the November F04 ASTM Meeting

The medical device task group of ASTM met in Jacksonville, FL from November 12-15th. The meeting starting with a workshop on modularity and tapers in total joint replacement devices, and discussed potential issues with femoral head fretting. Several individual task groups including the cleanliness, PEEK, UHMWPE, and bone cement groups, met to work on draft standards, give presentations, and discuss ongoing and upcoming round robin studies. Read more about each task group [here](#).

Cambridge Polymer Group, Inc. is an ISO 9001:2008 certified contract research laboratory specializing in polymeric materials. We provide routine analytical testing on materials, custom test design, failure analysis, consultation, instrumentation, custom polymer and hydrogel formulation, and out-sourced research.

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