# Week 2: not so new after all

Leucippus/Democritus/Epicurus/Lucretius

NanoTech mysteries.

Carbon nanotubes, Damascus steel & Univ. Of Cambridge

[http://www.nanowerk.com/nanotechnology-news/newsid=36049.php](http://www.nanowerk.com/nanotechnology-news/newsid%3D36049.php)

Japanese gold leaf artists

<http://www.sciencedaily.com/releases/2014/07/140702110916.htm>

Lycurgus cup

<http://www.frogheart.ca/?p=2091>

Holloway Lycurgus article (good image)

<http://www.theepochtimes.com/n3/807475-1600-year-old-goblet-shows-that-the-romans-used-nanotechnology/>

<http://www.ancient-origins.net/news-history-archaeology/1600-year-old-goblet-shows-romans-used-nanotechnology-00793#!bjfuCU>

Cambridge researchers manage to mimic Lycurgus Cup (Oct. 6, 2014 article)

<http://www.ibtimes.co.uk/romans-used-nanotechnology-turn-lycurgus-cup-green-red-1600-years-ago-1468746>

Same press release (two dates) from Cambridge

<http://www.cam.ac.uk/research/news/nanotechnology-used-to-create-next-generation-holograms-for-information-storage>

<http://www.eng.cam.ac.uk/news/nanotechnology-used-create-next-generation-holograms-information-storage>

Damascus steel blades

<http://www.frogheart.ca/?p=13885>

<http://www.frogheart.ca/?p=12746>

Nanotech Mysteries (Middle Ages)

<http://nanotechmysteries.pbworks.com/w/page/12355758/Middle%20Ages>

US nano gov site (Islamic art)

<http://www.nano.gov/timeline>

Lustreware (Iraq)

The invention of lustre: Iraq 9th and 10th centuries AD by T. Pradell, J. Molera, A.D. Smith, and M.S. Tite. Journal of Archaeological Science Volume 35, Issue 5, May 2008, Pages 1201–1215 DOI: 10.1016/j.jas.2007.08.016

Pradell T, Molera J, Smith AD, Tite MS, **Early Islamic lustre from Egypt, Syria and Iran (10th to 13th century AD),**JOURNAL OF ARCHAEOLOGICAL SCIENCE  35  (2008) 2649-2662.

300,000 year old Russian Nano

<http://humansarefree.com/2014/09/the-300000-year-old-nanotechnology.html>

Roman concrete

<http://www.history.com/news/the-secrets-of-ancient-roman-concrete>

Occulus

<http://en.wikipedia.org/wiki/Oculus>

Pantheon

http://en.wikipedia.org/wiki/Pantheon,\_Rome

Reverse engineering Roman concrete

<http://www.history.com/news/the-secrets-of-ancient-roman-concrete> (June 2013)

<http://www.businessweek.com/articles/2013-06-14/ancient-roman-concrete-is-about-to-revolutionize-modern-architecture>

Drexler/Smalley debates

<http://en.wikipedia.org/wiki/Drexler%E2%80%93Smalley_debate_on_molecular_nanotechnology>

Grey goo

<http://en.wikipedia.org/wiki/Grey_goo>

Bill Joy & grey goo “Why the future doesn’t need us” April 2008 in Wired

<http://archive.wired.com/wired/archive/8.04/joy.html>

2004 Royal Society report occasioned by Prince Charles’ concerns

<http://www.nanotec.org.uk/finalReport.htm>

History of nanotechnology (UScentric)

<http://en.wikipedia.org/wiki/History_of_nanotechnology>

Yoga as the first nanotechnology

http://www.nanowerk.com/news/newsid=2674.php