Special Seminar Announcement  
13:15 Tuesday 1 March 2016 (3.15 William Perkin Building)  

“Hydroxyapatite (nano) as an Example of Re-purposing nanoEHS Data”  

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**Abstract:** Recently, NIOSH in the U.S. and the SCCS in Europe have circulated draft opinions for external review. The topics differ, allowable worker exposure to nanoscale silver (NIOSH) and consumer exposure to nanoscale hydroxyapatite (SCCS), but the conclusions are very similar, namely insufficient evidence to take action. It is noteworthy, however, that both opinions use a combination of precedents, definitions and literature reviews to frame their inquiry such that it becomes a chemical narrative that itself restricts their inquiry’s scope. An alternative narrative, one that establishes a chemical description before applying precedents and definitions will be shown to lead to a less constrained view of available knowledge. In all cases, the crux remains that the data in nanoEHS studies will be re-purposed and used in contexts that were not anticipated by the original investigators. Re-purposing may occur in compiling a database and deciding on the appropriate metadata. It may occur when one scientific discipline utilizes concepts and studies taken from another discipline. An examination of the SCCS draft opinion will highlight how toxicology colleagues working within a regulatory context of precedents, definitions and test protocols utilized physical chemistry in deciding on the credibility and informational value of toxicological studies. The NIOSH case and the alternative narratives offer contrasting approaches, but do not resolve the underlying questions of reliability and credibility when “data travel,” which are best addressed during study design.  

**Fred Klaessig** received a B.S. degree from University of California, Berkeley and a Ph.D. degree in physical chemistry from Rensselaer Polytechnic Institute. He pursued an industrial career as a QC chemist at Bio-Rad Laboratories and various research and management positions at Betz Laboratories, now GE Water Services, where his responsibilities involved scale, corrosion and microbiological control in many industrial processes. Later, he was the U.S. Technical Director for Aerosil & Silanes and later the Business Director for the Aerosil Business Line for Degussa GmbH (now Evonik). His assignments ranged from commercial overview (Product Management, Production, Sales) to technical responsibilities involving customer support, new product introduction, liaison with the R&D Department in Germany and regulatory matters. Fred is associated with ISO/TC-229 (Nanotechnologies), UC-CEIN (industrial outreach) and NCI’s nanoWG (informatics)  

Dr Ted Henry will be hosting Dr. Klaessig and will be pleased to coordinate meetings with him during his visit to HWU. Please contact Ted ([T.Henry@hw.ac.uk](mailto:T.Henry@hw.ac.uk)) (0131 451-4315) to set up a time to meet if you wish. Ted will be taking Dr Klaessig to lunch on Tuesday 1 March and you are welcome to join us if you wish.