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“Going for the gold in the environment”

Metal nanoparticles, especially gold, are of great interest for numerous applications that range from plasmonic metmaterials to photothermal therapeutic agents. Questions remain as to what effects these nanomaterials have on living systems, and how they partition in the environment. Many of these studies require large amounts of material that is as well-characterized and as monodisperse as possible. In this talk I will discuss our progress on these points in the context of our Center for Sustainable Nanotechnology, a Center of Chemical Innovation Phase I award.

Bio: BS, Biochemistry, UIUC, 1986; BS, Chemistry, UIUC, 1986; PhD Wisconsin, 1990 with A.B. Ellis; NSF postdoctoral fellow, California Institute of Technology with J. K. Barton, 1990-1992; faculty member at U. South Carolina 1993-2009; 2011 Inorganic Nanoscience Award from the ACS Division of Inorganic Chemistry; 2008 AAAS Fellow; 2006-present, Senior/Deputy Editor, *Journal of Physical Chemistry C*