



UNIVERSITY OF MINNESOTA
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Department of Chemistry

at the University of Minnesota
**POLY
PMSE**

Seminar

9:45 a.m. Tuesday, Sept. 12, 2017

• 331 Smith Hall



Professor

Karen L. Wooley

Department of Chemistry, Chemical Engineering,
and Materials Science & Engineering
Texas A&M University

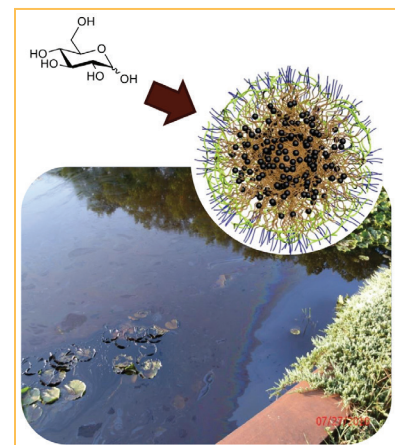
Functional polymer materials designed for advanced applications and sustainability

Research interests include the synthesis and characterization of degradable polymers derived from natural products, unique macromolecular architectures and complex polymer assemblies, and the design and development of well-defined nanostructured materials.

Website: <https://www.chem.tamu.edu/rgroup/wooley/>

Abstract

With advances in the translation of nanoscience to nanotechnology comes a need to consider sustainable sourcing of the building blocks used to create the nanotechnological devices at the same time that the functional performance application is defined. This presentation will highlight contributions that polymer chemistry can make toward nanotechnology that is capable of impacting global needs, such as water-food-energy, and the grand challenges that must be solved in the coming decade. The focus will include an integration of current approaches to construct nanoscopic systems from natural products with the design of hybrid nanoscopic systems that are capable of pollutant sequestration and magnetic recovery toward environmental remediation, among other applications.



Read Professor Wooley's biography at <https://chem.umn.edu/event/polypmse-seminar-professor-karen-l-wooley>.

Host: POLY/PMSE Student Chapter