



CHEMISTRY

SPRING 2019 CHEMISTRY COLLOQUIA



PLU AWARD LECTURE

**PROFESSOR JAMES M. TOUR
RICE UNIVERSITY**

Nanotechnology From Graphene to Nanomachines and Medicine

A series of topics within nanotechnology will be discussed. New methods for graphene growth will be shown, and methods for the synthesis of graphene nanoribbons, and their uses in devices, materials and medicine, particularly for spinal cord repair and treatment of traumatic brain injury and stroke. Also, the building of single molecule nanomachines will be presented. These include single molecule cars with wheels, chassis, axles and light activated motors that spin at 3 million rotations per second. And single molecule nanomachines can be targeted to and used for the killing of cancer cells.

Hosted by Phi Lambda Upsilon-Rho Chapter (PLU)
Co-sponsored by NCMN & Chemistry Dept

Tour Website: <https://www.jmtour.com/>
<https://chemistry.rice.edu/people/james-tour>

March 15, 2019

**3:00 Reception
PLU Lounge
332 Hamilton Hall**

**3:30 Seminar
112 Hamilton Hall**

Open to the public

Nebraska UNIVERSITY OF
Lincoln COLLEGE OF
ARTS & SCIENCES