

Nanoscience for Energy Research and Development

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**Public lecture:
June 12th 8:00 p.m.
Abbot Hall Rm 138**

Modern science is increasingly called on to engage in research with significant impact on the needs of society at large. One area which seems to occupy the minds of most people today, and is agreeably of high importance, is the cost-efficient production and storage of energy. Of the current energy technologies, solar energy and bio-fuels are the least developed, and therefore may have the greatest potential for significant advances. However, significant gains in our understanding of the processes involved, and in our ability to construct new materials and devices, will be required. In this lecture, I will describe how nanoscience and nanotechnology may play an important role in furthering the development of these technologies. I will survey some of the accomplishments of nanotechnologists in imaging and manipulating matter one atom at a time, and how these accomplishments may lead to cleaner, cheaper alternative energy in the future.

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