

This is a FREE science lecture, suitable for the general public, teachers and students of all ages: no registration necessary.

Please Note: Teachers receive certificates of attendance for one hour toward Professional Development credit for attending this talk.

Thursday, April 29, 2010

7:30-9 p.m.; Monroe Lecture Center, California Avenue, South Campus

The Incredibly Tiny: Can Nanotechnology Help Power the World?

Nanotechnology is an emerging area of science that studies materials at very, very, very small dimensions, and examines the possibilities of engineering new attributes through controlling features at or around the scale of a nanometer. One nanometer is about 1/80,000 the width of a human hair, almost as wide as a DNA molecule, 10 times the diameter of a hydrogen atom, or the thickness of a drop of water spread over a square meter!

The Center for Functional Nanomaterials, located at Brookhaven National Laboratory, is dedicated to nanotechnology research addressing the greatest technological challenge of our time – developing sufficient energy resources for sustainably powering the world. Dr. Black will discuss interesting aspects of the amazing research field of nanotechnology.

About the Presenter:

Dr. Charles Black is a scientist and group leader for electronic nanomaterials in the Center for Functional Nanomaterials at Brookhaven National Laboratory. He researches applications for nanostructured materials in solar cells and other energy conversion devices. Dr. Black earned a Ph.D. in physics from Harvard University in 1996. He has authored more than 50 scientific publications and holds 25 U.S. patents.

Questions? Call IDEAS at 516-463-5792.