

Nanotechnology for Teachers CHEM 570

The Center for Biological and Environmental Nanotechnology (CBEN) at Rice University is offering a spring course on Nanotechnology for Chemistry, Physics and IPC teachers



Examples of Nanotechnology

Carbon nanotubes: materials stronger than steel

Gold nanoshells: for detection and treatment of cancer

Nanorust: for inexpensive water purification systems

Nanosilver: particles with antimicrobial properties

Program Benefits

- Deepen content knowledge
 - Teachers report that this program helps them increase their understanding of chemical bonding, atomic structure, ionization energies, periodic table trends, and more.
- No fees or costs
- 45 CPE credit hours plus a \$300 stipend (*must be US Citizen or Permanent Resident to receive stipend*)
- If desired, teachers can receive 3 hours of Rice Graduate credit at a reduced tuition
- Light dinner provided along with free and convenient parking
- Connect core physics and chemistry concepts to ongoing research in nanotechnology
- Acquire new lecture strategies to engage middle school and high school students in science
- Learn about cutting-edge scientific research
- Try out new classroom demos and labs

Program Dates: January 13—April 21, 2011
Time: Thursday Evenings
6 PM—8:30 PM
Location: Rice University Campus
Instructors: Dr. John Hutchinson, Professor of Chemistry, CBEN Director for Education
Dr. Carolyn Nichol, CBEN Associate Director for Education cnichol@rice.edu

To register, go to <http://cben.rice.edu/CHEM570.aspx>



Admission Deadline:
December 1, 2010

Questions?

Please contact Carolyn Nichol at cnichol@rice.edu or 713-348-2672 <http://cben.rice.edu>





Application for
CHEM 570 Nanotechnology for Teachers
Spring Semester, 2011

Admission Deadline: December 1, 2010

Email to cnichol@rice.edu

Fax to: 713-348-8218 **or Mail to:** Chem 570 Teacher Program, CBEN-MS 63, Rice University,
P.O. Box 1892, Houston, TX 77251-1892

Name: _____ E-mail: _____

Telephone number(s) for leaving a message: _____

School: _____ School Telephone: _____

School District: _____ School Fax: _____

Home Address: _____

What subject(s) are you teaching now? _____

What other subjects have you taught? _____

How long have you taught? _____

Science, mathematics, and technology background (You may attach a resume):

College courses:

Workshops/summer programs:

Previous career or other technical experience:

What do you hope to gain from this course?

**Must be a U.S. Citizen or Permanent Resident to receive the stipend for the course*