Susan Greenberg and Glen Miller organized the 2nd Annual K-12 Nanotechnology Teacher Institute at the University of New Hampshire, Durham, NH which took place during the week of July 24-28, 2006. The Institute featured presentations by UNH faculty and speakers from Northeastern University, University of Massachusetts at Lowell, and presentations by teachers from Massachusetts and New Hampshire (see list of presenters and program schedule below). The institute was attended by 18 New Hampshire teachers representing all grade levels, from elementary to high school.
2nd Annual K-12 Nanotechnology Teacher Institute
Presenters List

Glen Miller, Associate Director for the Center for High-rate Nanomanufacturing, Assoc. Professor of Chemistry and Materials Science Program, University of New Hampshire.

Richard Johnson, Norman & Marie Waite Professor of Chemistry, University of New Hampshire

Ken Geiser, Professor, School of Health and Environment, University of Massachusetts Lowell

Chris Bosso, Professor of Political Science, Director, Nanotechnology & Society Research Group, Northeastern University

Arthur Greenberg, Professor of Chemistry & former Dean of the College of Engineering and Physical Sciences, University of New Hampshire and Tim Henderson, Graduate Student, UNH

Ron Sandler, Assistant Professor of Philosophy, Department of Philosophy and Religion, Northeastern University

Jim Harper, Professor of Physics & Director of the Materials Science Program, University of New Hampshire

Karsten Pohl, Associate Professor of Physics, and the Material Sciences Program, University of New Hampshire

Claire Duggan, Associate Director, Center for Enhancement of Science & Mathematics Education (CESAME) and Principal Investigator for RET (Research Experiences for Teachers), Northeastern University—group leader. Teachers presenting: Mark Casto, Jim Megyesy, Benadette Manning. RET participants include: Richard Bernaad, Amy Milkowski, Jessica Quinn, Paul Chanley, Ryan Hoffman

Christina Talbot, Physical Science Teacher, Memorial High School, Manchester, NH & Harvard University RET

For more information about nanotechnology outreach activities at UNH, contact Sue Greenberg at sjg3@cisunix.unh.edu.
### 2006 K-12 Nanotechnology Teacher Institute Program Schedule

<table>
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<tr>
<th>Date</th>
<th>Location</th>
<th>Time</th>
<th>Activities</th>
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| Monday, July 24       | Hollaway Commons-Piscataqua Room  | 9:00AM – 12 Noon   | Breakfast and Announcements
| Tuesday, July 25      | Hollaway Commons-Piscataqua Room  | 9:30AM – 12 Noon   | Speakers/Activities
| Wed., July 26         | Hollaway Commons-Piscataqua Room  | 9:00AM – 4:00PM    | Speakers/Activities
| Thursday, July 27     | Hollaway Commons-Piscataqua Room  | 9:00AM – 4:00PM    | Speakers/Activities
| Friday, July 28       | Parsons Hall, Iddles Atrium, Iddles L1, and 205G | 9:00AM – 4:00PM    | Speakers/Activities

#### 9:00AM – 9:30AM
- **Breakfast & Announcements**

#### 9:30AM – 12 Noon
- **Speakers/Activities**
  - **Glen Miller**
    - Nanotechnology Primer
    - 9:30 am -12 noon
  - **Ken Geiser**
    - Nanotechnology: Environmental and Health Policy
    - 9:30-10:30 am
  - **Chris Bosso**
    - Societal and Regulatory Dimensions of Nanotechnology
    - 10:30-12 noon
  - **Ron Sandler**
    - The Social & Ethical Dimensions of Nanotechnology
    - 9:30-11 am
  - **Jim Harper**
    - Very Thin Films & Very Small Structures
    - 11-12 noon
  - **Claire Duggan and Company**
    - Research Experience for Teachers—Integrating Research Skills and Nanotechnology into the Classroom
    - 9:30 am -12 noon
  - **Richard Johnson**
    - Nano-Molecular Modeling
    - 1:00-3:00 pm
  - **Arthur Greenberg**
    - Demonstration of Nanotechnology Experiments for K-12 classrooms
    - 1:00 – 3:30 pm—lab in 205G Parsons Hall
  - **Karsten Pohl**
    - The Physics of Self-Assembling Nanoarrays
    - 1:00 – 3:30 pm
  - **Glen Miller**
    - Design your own Nanotechnology Experiment
    - 1:00 – 3:30 pm
  - **Christina Talbot**
    - Soft Lithography: Practical Fabrication on the Micrometer & Nanometer Scales, Experiment for K-12 Teachers
    - 9:30 am: presentation
    - 10:30 – 11:45 am: lab—205G Parsons Hall

#### 12 Noon – 1PM
- **Lunch**

#### 1:00PM – 4:00PM
- **Speakers/Activities**
  - **Glen Miller**
    - Design your own Nanotechnology Experiment
    - 1:00 – 3:30 pm
  - **Christina Talbot**
    - Complete Soft Lithography Lab
    - 1:00 – 2:30 pm
    - 2:30-3:30 pm
    - Project SMART poster session and refreshments—Morse Hall atrium