

## NIST Summer Institute for Middle School Teachers 2012

date/time location	Monday, July 9 Lecture Room A	Tuesday, July 10 Lecture Room A	Wednesday, July 11 Lecture Room A	Thursday, July 12 Lecture Room A	Friday, July 13 Lecture Room A
9-10	<b>Welcome and Introduction</b> Mary Satterfield 9-10	<b>How Big is Pi?</b> Dennis Leber and Hung kung Liu 9:00-11:00		<b>Density and Specific Gravity Lecture and Activities</b> John Wright 9:00-10:30	<b>Designing Buildings to Resist Earthquakes</b> Dat Duthinh 9-10
10-11	<b>Orientation NIST Overview</b> Willie May 10-10:45	<b>Introduction to Metrology</b> David Duewer 11-11:45	<b>LabQuest Day</b> Nus Hisim	walk to Bldg 230	<b>Building Earthquake Models</b> 10-11
11-12	<b>NIST in Your Community/ Museum Tour</b> Jennifer Huergo/ Keith Martin 11-12 alternating	to NIST Store 11:45	<b>Group Photo</b> 11:45-12	<b>Density Column</b> Katrice Lipka 11:30-12	<b>Designing Bldgs (+ Tsunamis)</b> 11-12
lunch	lunch	lunch	Jamie Ging and TiO2 NP	lunch	lunch
1-2	Walk together downstairs  <b>Mechanical Metrology Metrics Estimation Game</b>	<b>Million Pound Force Machine</b> (Sam Ho, Kevin Chesnutwood)/ <b>Ballistics Testing Facility Tours</b> (Kirt Rice, Amanda Forster, Mike Riley)		<b>Using NIST Activities in the Classroom</b> Carolyn Holcomb 1-2	<b>Sound</b> Lecture, Activity, and Construction John Jendzurski 1-3PM
2-3	Elizabeth Gentry 101/B11, 1:05-2:15	meet at Bldg 227/ A302	<b>LabQuest Day</b>	<b>Scientist Visits One-on-One</b> 2:15-3:30	
3-4	<b>Measurements in the Marketplace</b> Tina Butcher, Steve Cook, and Elizabeth Gentry 101/B11, 2:15-3:45	<b>Spectroscopy Lecture and Activity</b> Steve Choquette 227/A302 2:15-4PM		<b>Debrief of visits with scientists</b> 3:30-4	<b>Recap of Week</b> How are things going so far? 3-4PM

Monday, July 16 NCNR: see map	Tuesday, July 17 Lecture Room A	Wednesday, July 18 Lecture Room A	Thursday, July 19 Lecture Room A	Friday, July 20 Lecture Room A
meet at the NCNR - see map  <b>The NIST Center for Neutron Research (NCNR)</b> <b>Production of Neutrons Lecture</b>  <b>Crystal Growth Lab</b>  <b>Tour Part I</b>  NCNR, 9-12	walk over to Bldg 227  <b>Human Identification with DNA Lecture</b> Becky Hill/ Erica Butts A202 9:15-10:15AM  <b>Electrophoresis Demos</b> Becky Hill/ Jenny McDaniel 10:30-11:15  11:15 - 11:30 back to 101/LRA  <b>Electrophoresis Kits</b> Dana Schneider LRA	<b>Measurement of Temperature</b> Ryan Fitzgerald 9-10AM  <b>Nanomagnetic Forces</b> Bob McMichael 10-11AM  <b>Million Pound Force Machine</b> (Sam Ho, Kevin Chesnutwood)/ <b>Ballistics Testing Facility Tours</b> (Kirt Rice, Amanda Forster, Mike Riley)	<b>Mycomuncher DNA Lecture and Puzzle</b> Sarah Munro, John Heddleston, Autumn Downey 9-11AM  <b>Scientist Visits One-on-one</b> 11-12	<b>The Magic of Science/ The Science of Magic</b> John Gillaspay 9-11:30
lunch with NCNR scientists	lunch	lunch with SURF students	lunch	Group Lunch Out 11:30-1PM
<b>Diffraction Demos</b>	Walk together over to Bldg 221 <b>Thermometry Lecture</b> Greg Strouse 221/A366 1:15-1:45  <b>Thermometer Calibration Activities</b> Dawn Cross, Wyatt Miller, Michal Chojnacky, Karen Garrity 221/A242, 1:45-3PM Bring LabQuests and Temp Probes  <b>Liquid N<sub>2</sub> Ice Cream</b> 3-3:45	walk over to Bldg 226/ B165  <b>Cement Activity</b> Clarissa Ferraris 1:15 - 2:15  2:15-2:30 back to 101/LRA  <b>pH of Water</b> Ken Pratt 2:30-4PM	Continue Mycomuncher Construction plus debrief of visits with scientists 1-2:15  <b>Safety in the Middle School Classroom</b> Judy Reilly 2:15-3:15  <b>Ultra-cold Science</b> Bill Philips, Nobel Prize Winner Green Auditorium 3:30-4:30	<b>Wrap-up and Ceremony</b> LRA, 1-2PM  <b>Westat Evaluation</b> Focus Groups 2-3PM  <b>Reception</b> NIST staff invited Flag Hallway, 3-4PM