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Prospective Nanoscience Lessons for High School Classroom Activities JAETAE SEO, JAN MANGANA, COURTNEY DULA, OLIVIA KERWIN, JASMINE AUSTIN, THAMER KHASAWNEH, JENNIFER DO, LUIS GOITY, SEONGMIN MA, QIGUANG YANG, BAGHER TABIBI, Hampton University, HAMPTON UNIVERSITY COLLABORATION, NORTHWESTERN UNIVERSITY COLLABORATION, PURDUE UNIVERSITY COLLABORATION — Workshops for learning and teaching in nanoscale science in the Hampton Roads area in Virginia have been provided for high school science teachers of 7-12th grade. Main objectives of the workshops are to enhance teachers' awareness of the connections between nanoscience and the traditional sciences, and provide a collection of suitable classroom activities in nanoscience. Prospective nanoscience lessons for high school classroom activities have been introduced in summer 2007 and 08. The selected classroom lessons are surface area and volume, nanolight, solar cells, nanocard, allotropes of carbon, biosensors, DNA origami, ferrofluids, intermolecular forces, quantum dots, scanning probe microscopy, and space elevator. This work at Hampton University was supported by ARO (W911NF-07-1-0608) and NSF (HRD-0734635, HRD-0630372, and ESI-0426328/002).

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