IDEAS
The Institute for the Development of Education in the Advanced Sciences

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Introduction
Scientific and technological problems affect people, businesses, and societies at large around the world. The solutions to these problems and the ethical issues that arise from the development of new technologies necessarily require problem solving techniques that are forged through collaborations between scientists, educators and the public at large. Industry relies heavily on the rigorous preparation of research scientists and a rapidly changing technological landscape requires an informed citizenry.

Mission
The Institute for the Development of Education in the Advanced Sciences, based within the School of Education and Allied Human Services at Hofstra University, has been assembled to provide a focus on cutting edge issues in science and technology for the general public, local public and private school teachers and administrators, and college educators. The Institute seeks to create public visibility and enhanced understanding of advances in science and technology. It further seeks to encourage greater interest in advanced study in the sciences and enhance the skills of pre-college and college educators in science and technology education, hence encouraging a broader participation in science and technology.

The faculty of the Hofstra University engineering, natural science, computer science and education departments working in concert with scientists from Long Island's major research laboratories, Cold Spring Harbor Laboratory and Brookhaven National Laboratory, will assist in the development of workshops and lectures that raise the visibility of advances in scientific and technological understanding. Multi-disciplinary teams of scientists, engineers and educators are crucial to the process of advancing education in the sciences and providing science and technology educators with valuable resources for their own professional development.

IDEAS Institute Goals:

• To facilitate close interaction between Hofstra researchers in the natural sciences, computer science, engineering and education;

• To raise the visibility and understanding of scientific and technological advances for the public and the professional education community;

• To participate actively in undergraduate and graduate education at Hofstra, with the goal of promoting links between the scientific and education constituents, creating enhanced research opportunities for students in the natural sciences and students in education;

• To establish professional development workshops and courses for teachers who seek to enhance their understanding in the sciences and integrate cutting-edge technology in their teaching;

• To house research and evaluation for science and technology related grant funded projects.