

CEAS Dean's Distinguished Lecture



INNOVATIONS AND ARMY RESEARCH

Presented by

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Abstract

Army Research Office (ARO) is the extramural arm of the US Army responsible for funding basic research in the academic institutions. ARO's mission is to seek out and foster innovations. Of the topics funded by ARO, there are more than two dozen that have been awarded Nobel prizes. It is recognized that both nanotechnologies and biotechnologies are technology cornerstones that enable the Army's future capabilities. For this reason, in addition to the regular single investigator programs and Multidiscipline University Research Initiatives (MURI), two major centers are being established to take advantage of major advances in these two areas and to focus and harvest efforts for Army applications. In this talk, the innovations and Army S&T needs will be discussed. Selected research results will be presented to cover the scope of the ARO research portfolio and to illustrate the strategic path of the ARO-supported research in academia.

Dr. JIM C. I. CHANG, serves in a dual-hatted position; Deputy Director for Basic Science, Army Research Laboratory (ARL), and Director of the Army Research Office (ARO). The ARL is the Army's corporate laboratory with sites throughout the U.S. and has a budget of about \$1.1 billion. As ARL Deputy Director for Basic Science, he is the senior science and technology executive charged with oversight of the entire ARL basic research (6.1) program. As ARO Director, he leads an organization of scientists who manage a \$380 million extramural research program in the life sciences, mathematical and information sciences, physical and engineering sciences conducted mostly in universities. He entered federal service in 1978 and was appointed to the Senior Executive Service (SES) in 1990. He has served as Director of the Aerospace and Materials Sciences Directorate of the Air Force Office of Scientific Research, Chief Scientist at the Naval Air Systems Command, program manager with NASA and branch head at the Naval Research Laboratory. Dr. Chang received his Ph.D. degree in theoretical and applied mechanics from Cornell University. He has published over 40 publications, served as an associate editor and reviewer for several professional journals, is an AIAA fellow, and has received recognition for his technical and science and technology management contributions. Dr. Chang is also an Adjunct Professor in the Departments of Mechanical Aerospace and Electrical and Computer Science at North Carolina State University. Major awards for Dr. Chang include the following: Fellow, American Institute of Aeronautics and Astronautics, Chinese American Engineering and Scientists Association of Southern California Achievement Award, California State Assembly Recognition for Outstanding Leadership in Research and Development Management and Honor Society of Phi Kappa Phi

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