Bureau of Educational Research

2008-2009 Seminar Series

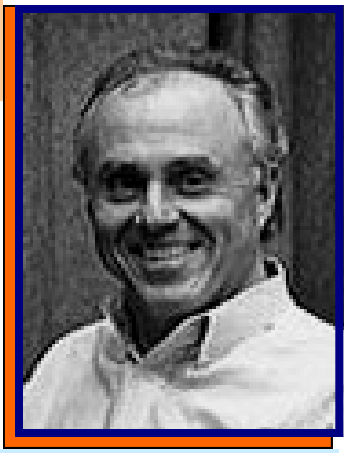
and **Grayce Wicall Gauthier Professorship**

Present

Ubiquitous Learning/STEM Education Series

From Research to Practice:
Redesigning AP Science Courses to Promote Advanced Learning and Conceptual Understanding

Tuesday, December 9, 2008
12:00pm-1:30p.m. 22 Education



Dr. James W. Pellegrino

Distinguished Professor in Liberal Arts and Sciences
Distinguished Professor of Education
Co-Director, Interdisciplinary Learning Science Research Institute
University of Illinois at Chicago

*Dr. Pellegrino's research interests focus on children's and adult's **thinking and learning** and the implications of **cognitive research** and **theory for assessment** and instructional practice. A special concern of his research is the incorporation of effective formative assessment practices, assisted by technology, to maximize student learning and understanding.*

The 2002 National Research Council report, ***Learning and Understanding: Improving Advanced Study of Mathematics and Science in U.S. High Schools***, called for improvements in advanced study in high school mathematics and science programs. The report suggests that the **primary goal of advanced study programs, "should be to help students achieve deep conceptual understanding of the content and unifying concepts of a discipline."**

This presentation will report the College Board's process and progress of the redesign effort to date and some of its implications including:
(1) ***definition*** of the essential ***knowledge, skills, and abilities*** for AP courses,
(2) construction of ***assessment models*** to measure students knowledge and learning,
(3) ***technology and the design and delivery of*** curricular, instructional, and professional development ***resources*** to support teaching and student learning.

12pm-1pm Presentation with Q&A followed by a Round Table from 1pm-1:30pm

College of Education
University of Illinois at Urbana-Champaign

Bureau of Educational Research, Room 38
www.ed.uiuc.edu/ber/webpages/Seminars_and_Events.html