

BIOGRAPHICAL SKETCH



Steven E. Koonin was born in Brooklyn, New York and educated at Caltech (B.S. in physics) and at MIT (Ph.D. in theoretical physics). He joined the Caltech faculty in 1975, becoming a full professor in 1981 and serving as the Institute's Provost from 1995 – 2004.

Koonin left Caltech in March 2004 to become BP's Chief Scientist. BP is the world's second largest independent oil company, producing some 4% of the world's oil and gas. It refines and markets petroleum products in more than 100 countries and serves more than 13 million customers each day. Among the well-known BP brands in the United States are Arco, Amoco, and Castrol.

In his capacity as Chief Scientist, Koonin is responsible for BP's long-range technology plans and activities, particularly those "beyond petroleum." He also has purview over BP's major university research programs around the world and provides technical advice to BP's senior executives on matters of Group significance.

Koonin is a fellow of the American Physical Society, the American Association for the Advancement of Science, and the American Academy of Arts and Sciences, as well as a member of the Council on Foreign Relations and the Trilateral Commission. He has served on numerous advisory bodies for the National Science Foundation, the Department of Defense, and the Department of Energy and its various national laboratories. His research interests have included theoretical nuclear, many-body, and computational physics, nuclear astrophysics, and global environmental science.

Energy Trends and Technologies for the Coming Decades



Dr. Steven E. Koonin
Chief Scientist, BP

Tuesday, April 24, 2007
1:30 p.m.
Van Leer Building Auditorium

SYNOPSIS OF THE LECTURE

Energy Trends and Technologies for the Coming Decades

The world's demand for energy will grow by some sixty percent in the next twenty-five years. Satisfying that demand in an economical and environmentally acceptable manner is one of the most significant challenges facing society. New technologies will play a central role in meeting this challenge, albeit conditioned by the economic, social, and political contexts in which they are developed and deployed. The presentation will focus on the major forces shaping the World's energy future and the technologies required to respond to them.

PROGRAM

Introduction	Dr. Ward O. Winer Eugene C. Gwaltney, Jr. Chair of the Woodruff School
Distinguished Lecture	Dr. Steven E. Koonin Chief Scientist, BP
Question-and-Answer Session	Dr. Koonin and Dr. Winer
Presentation of the Woodruff Medallion	Dr. Winer
Reception	Love Building, 2 nd Floor

THE WOODRUFF LECTURE

The George W. Woodruff School of Mechanical Engineering Annual Distinguished Lecture was established in 1990 to honor an engineer who has made an outstanding contribution to society and to provide a forum for that person to address the Georgia Tech community. The lecture is made possible by an endowment established for the Woodruff School of Mechanical Engineering by the late George W. Woodruff (class of 1917). Thus, the occasion is also an opportunity to remember and honor Mr. Woodruff's own contributions as a distinguished alumnus and as a benevolent and generous citizen of Atlanta and the State of Georgia.