

ENERGY, ENVIRONMENT AND EDUCATION

Lecture by

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This lecture, 2 hours, consists of a presentation that will show the importance of issues related to *Energy, the Environment and Education*, to make university students understand the issues as they are without getting emotional about them. Hopefully, after these two hours, they become more informed, more educated, and better citizens who appreciate the pros and cons of energy.

1. Definitions
2. Conservation of mass
3. Conservation of energy
4. The first law – banking
5. The second law – taxation
6. Entropy generation
7. Destruction of exergy
8. Future of energy resources
 - Fossil fuels
 - Renewables

A. OZER ARNAS - SHORT BIOGRAPHY

*A. Özer Arnas was educated at Robert College, Istanbul where he received his B.S.M.E degree in June 1958. He continued his formal education at Duke University and North Carolina State University. He started his full-time teaching at Louisiana State University, Baton Rouge, in August 1962 where he is now a **Professor Emeritus**. In January 1986, he moved to the California State University System and retired from the San Jose State University in December 1992. He has served as a **Consulting Professor** at the University of Costa Rica (1967-1968), and as a **Visiting Professor** at Robert College (1969-70), at the Institute of Thermodynamics of the University of Liège, Belgium (1972-73 and 79-80), at the Institute of Heat Technology of Eindhoven University of Technology, the Netherlands (1979-80), at the Department of Energetics of the University of Florence (1988), at Batelle Pacific Northwest Division (1992), at the University of the Pacific, Stockton, CA (1993-1995), at Boğaziçi University, Istanbul (1996-1998) and has been a Professor of Mechanical Engineering at the United States Military Academy at West Point, NY since 1998. Additionally, he has lectured in many*

*parts of the world, mainly on Thermodynamics, Heat Transfer, Energy Conversion, Mechanical Engineering Design Methodology, and Engineering Education. He has organized over eighty conferences/sessions and has participated in over thirty educational short courses and seminars as a student and a lecturer throughout the world. He has received **teaching awards** from the Halliburton Educational Foundation, Inc. (1967), The Ralph R. Teetor Award of the Society of Automotive Engineers (SAE) (1974), Western Electric Fund Award of the Gulf-Southwest Section of the American Society for Engineering Education (ASEE) (1979), the first Ned Adler Award of Louisiana State University (1981), the Meritorious Performance Award at California State University-Chico (1987), the Pi Tau Sigma Annual Professor of the Year Award at San Jose State University (1991). He received **The Outstanding Civilian Service Medal**, United States Army, United States Military Academy, West Point, (2001).*