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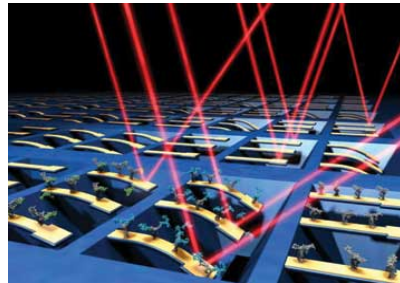
***Rethinking Energy:
Drivers and
Emerging
Opportunities***



***Ahmed Ghoniem,
Professor of Mechanical
Engineering, MIT
13 November 2006
Social Hour 11:30-12:00 noon
Seminar 12:00-1:00 pm
Room 106
Engineering Building***

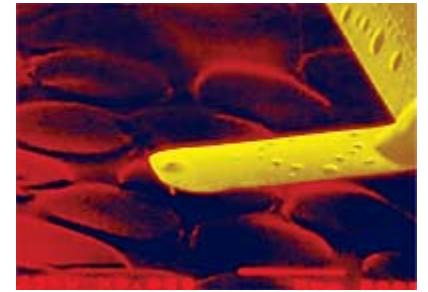
ABSTRACT

The World's consumption of energy is rising rapidly. Fossil fuels remain the primary source, prompting concerns over exhausting the reserves, the rising atmospheric concentration of CO₂ and the impending climate crisis. The existing infrastructure imposes its own inertia, and economic and security concerns narrow down the solution domain. Near- and intermediate-term strategies, such as improving utilization efficiency and decarbonization, should be pursued vigorously, while longer-term solutions, including renewables and nuclear, transition into the



BIO

Ahmed Ghoniem is a professor of Mechanical Engineering and director of the Center for 21st Century Energy at the Massachusetts Institute of Technology. His research and graduate teaching are in the areas of computational modeling and simulations and their application to combustion and other energy conversion processes and systems; active control of combustion; and integrated energy systems



***Contact:
Mechanical Engineering
School of Engineering
Virginia Commonwealth
University
601 West Main St
Richmond, VA 23284-3015
Office: 804-828-9117
Fax: 804-827-7030***

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