

# 17<sup>TH</sup> LEADERS IN ENGINEERING SEMINAR

## THE PETROLEUM INSTITUTE, ABU DHABI

**Dr. C. D. Mote, Jr.**

**President and Glenn L. Martin Institute  
Professor of Engineering, University of  
Maryland, College Park, U.S.A.**



**5 January 2008, 12:00 Noon-1:00 PM**

Main Lecture Hall (room 100), Zarkuh Building

### **Industry, Universities and Government in a Connected World**

Industry, universities and government have collaborated in the development of society for the past half century. Their relationship has passed through three phases over this period. In his lecture, Dr. Mote will describe the three phases so that we can better understand opportunities for our universities.

In the first phase, 1950-1975, the U.S. economy was dominated by big business and big government while universities played a supporting role principally by educating the workforce. Universities were a step or two removed from governmental and industrial actions. Knowledge from universities required about twenty years to commercialize because knowledge transfer was through students.

The second phase, 1975-2000, was characterized by developments in computer technology, information systems, computer science, microelectronics, and biosciences. Universities began to play a more central role as many new discoveries occurred around universities. Universities held key assets and stepped into a new triangular partnership with industry and government.

In the third phase, 2000 – today, the triangular partnership is stretched thinly around the globe. Industry goes wherever its interests are best served and operates within global economic boundaries. Government is also global in many of its concerns. A dizzying array of partnerships between all levels of government (national, provincial, city), industry (multinational, national and local) and universities (campuses, systems, associations, consortia, colleges, departments, faculty) is developing.

The global assembly of assets from universities, governments and industries can create vibrant partnerships that are more flexible, expansive, and responsive than ever before. For universities to succeed they must be willing and able to engage with industry and government on a global scale. The drive for innovation, entrepreneurship and talent makes the university a foreground partner.

A few activities at the University of Maryland will illustrate the paradigm of today's partnerships that have been described.

#### ***Biography***

C. D. (Dan) Mote, Jr. began his tenure as President of the University of Maryland and Glenn L. Martin Institute Professor of Engineering in 1998. During his Presidency, the University has risen in the *U.S. News & World Report's* annual ranking of public institutions in the U.S. from no. 30 in 1998 to its present no. 18.

Dr. Mote's research lies in dynamic systems and biomechanics. Internationally recognized for his research on the dynamics of gyroscopic systems, he has produced more than 300 publications, holds patents in the U.S., Norway, Finland and Sweden, and has mentored 56 Ph.D. students. He received the B.S., M.S. and Ph.D. in mechanical engineering from University of California, Berkeley.

President Mote has testified before Congress on major educational issues, such as the problem of visa barriers for international students and scholars. He is a member of the U.S. National Academy of Engineering (NAE), and was elected to Honorary Membership in the American Society of Mechanical Engineers (ASME) International. A Fellow of the International Academy of Wood Science, the Acoustical Society of America, and the American Association for the Advancement of Science, he received ASME International's J. P. Den Hartog award in 2005 in honor of his lifelong contribution to the teaching and practice of vibration engineering, and the NAE's Founder's Prize.

**For additional information on this seminar contact the CAO office x75713**