

Attention all IMECE 2006 attendees!

Please join us for the **NEW** Early Career Development track on Monday, November 6th, to discuss the following issues:

- Management Skills for Engineers
- Tools for Advocacy & the Early Career Engineer
- Technology, Innovation, and Competitiveness: A Global Challenge
- An Incident at Morales— An Engineering Ethics Story
- The Future of Energy in the 21st Century

This track will be held from 7:45 AM - 5:15 PM. It is open to all IMECE participants registered for the technical track sessions or the Early Career Forum Bonus Pack.

ECD #1—Management Skills for Engineers

7:45-9:15 AM

In today's ever changing community of engineering, it is essential to be a well rounded engineer. Early career engineers (ECEs) must not only possess strong technical skills, but also solid management skills in order to advance in their careers. This session will provide ECEs with an introduction to the skills they need to improve their performance from a management viewpoint, and involve a review of management skills including leadership, communication, motivation, and management fundamentals.

ECD #2—Tools for Advocacy and the Early Career Engineer

9:30-11:00 AM

This session focuses on educating engineers to give back to society through groups such as Engineers Without Borders (EWB), FIRST & Girl Scouts. It will elaborate how Early Career Engineers (ECEs) can be more than an engineer, but also be ambassadors to the profession through volunteerism and advocacy. Methods for ECEs to get involved in giving back to their profession through undertaking issues that improve the quality of life, in conjunction with groups such as EWB, will be discussed.

ECD #3—Technology, Innovation, and Competitiveness: A Global Challenge

11:00-12:45 PM

This session is jointly sponsored by the Early Career Development Committee, the Board on Government Relations, and the Center for Public Awareness.

In fall of 2005, the National Science Board and the National Academies both released reports, *Science and Engineering Indicators 2006* and *Rising Above the Gathering Storm: Energizing and Employing America for a Brighter Economic Future* respectively, that found the U.S. was losing its competitive edge, and global competition was now real. These reports became the "tipping point" in the public debate about the state of U.S. economic competitiveness and prosperity. Come hear representatives of the National Academy of Engineering and the National Science Foundation about the current status of this important debate, and how it can affect you at a state and local level.



ECD #4—Incident at Morales - An Engineering Ethics Story

2:00-3:30 PM

In 2003, the National Institute for Engineering Ethics and Texas Tech University's Murdough Center for Engineering Professionalism produced the video "Incident at Morales – An Engineering Ethics Story" and associated training materials through an NSF grant. "Incident" involves various issues faced by a company that wants to quickly build a plant to develop a new chemical product to gain an edge over competition. Ethical issues include technical, environmental, financial and safety problems.

ECD #5—The Future of Energy in the 21st Century

3:45-5:15 PM

Panelists will discuss what engineers within 10 years out of college should know about the sustainability of the energy supply in the U.S. and abroad, how this can affect the career path of an engineer, and what kind of public policy they should contribute to in order to meet the ASME policy to "Maintain a balanced fuel mix for power generation in the United States that makes the best use of coal, natural gas, nuclear power, hydroelectric power, and renewable energy.