

Textile Engineering Division (TED)

Objectives of TED

- **Vision:** TED focuses on product and process technology improvements to the many aspects of fiber, composite, textile and apparel manufacturing operations, textile machinery and instrumentation.
- **Mission:** to increase membership and allow its members to further develop themselves
 - Provide updates on developments in industry
 - Allow members to make contacts with others in the industry

Roles in Globalization

- Former Chair is located in China
- TED is currently working on a textile engineering conference in China in 2006
 - Will coincide with textile equipment show for increased attendance
- Currently only a few international members
 - Executive Committee has discussed increasing international membership to reflect shift in textile manufacturing

Membership Demographics

- **Primary Membership**
 - 2005: 152 members
 - 2004: 146 members
 - 2003: 143 members
- Most members located in southeast US
- Membership declining due to decline in US textile manufacturing
- Total Membership, 2005: 782
 - 20 students included

Honors & Awards Activities

- 2004: One ASME Fellowship awarded
- 2003: One ASME Fellowship awarded
- 2002: One ASME Fellowship awarded
- 2002: Schwartz Lectureship awarded to Dr. Mansour Mohamed

IMECE Conference Performances

- Themes revolve around changes in the manufacturing of textiles, utilization of textile materials, and modeling of textile behavior
- 2004:
 - 13 presentations/publications
 - 4 technical sessions
- 2003:
 - 11 presentations/publications
 - 3 technical sessions
- 2002:
 - 14 presentations/publications
 - 3 technical sessions

TED Strengths

- Long division history
- Executive Committee members actively communicate with each other and are dedicated to increasing division membership and programming
- Increasing engineering applications of textile and fibrous materials

Student Involvement

- 2005: 14 undergraduate, 6 graduate students as members
- Have 4 US textile engineering programs (Philadelphia University, Auburn University, NC State University, Georgia Tech): students involved with ASME at these universities may be involved with other ASME divisions
- Declining number of students entering field of textiles negatively impacts student involvement in TED

Weaknesses That TED Must Address

- Low primary membership numbers
 - Due to a shift in location of manufacturing facilities, as facilities move out of US enrollment declines
 - Membership is mostly US based, not indicative of current textile manufacturing locales
- Vision focused on textile production may discourage others from joining TED
 - May have to incorporate materials research/utilization into vision in order to attract more members
- Lack of activities and industry involvement
 - Will survey members to determine what activities are desired by members as well as to determine how industry involvement can be increased

Industry Involvement

- TED Executive Committee made up of academics
- Have to incorporate more industry involvement into activities
 - Will survey all TED members to determine how to accomplish this