

The ASME Computers and Information in Engineering Division

Established: 1980

CIE Division Vision Statement

The *Computers and Information in Engineering Division* will provide a forum for enhancing the practice of engineering by understanding the application of emerging technologies that impact critical engineering issues of representation, product design and product development, exchange, management and integration of information throughout the entire engineering product and process life-cycle.

CIE Mission Vision Statement

The *Computers and Information in Engineering Division* will enhance the practice of engineering through the dissemination of emerging technology and knowledge that will enhance the integration of Mechanical Engineering, Software Engineering, and Computer Engineering.

CIE Division Technical Committees

- Engineering Information Management (EIM)
- Computer-Aided Product Development (CAPD)
- Internet-Aided Design, Manufacturing and Commerce (IADMC)
- Virtual Environments and Systems (VES)
- Computers in Electromechanical Systems (CINEMAS)
- Non-Traditional Computing (NTC)
- Energy Systems (ES)
- Computational Technologies for Engineering Sciences Applications (CTESA)
- Computers in Education (CIEd)

Conferences and Technical Meetings

- ASME Computers and Information in Engineering Conference
- Technical research paper sessions, panel sessions, and tutorials
 - Participation from academia, government, and industry
 - Special commemoration in 2005 of 25th anniversary of Division and Conference
- ASME International Mechanical Engineering Congress and Exposition
- Technical research paper sessions, co-sponsored with other ASME technical units having shared interests

Publications

- ASME Journal of Computing and Information Science in Engineering
- Newest ASME Transactions journal
 - Multi-disciplinary scope, focuses on the intersection between mechanical engineering, computer and software engineering, and information science
 - Approved for listing in journal indexing services in 2004

CIE Division Strengths

- Focused on 21st-century technical scope
- Dedicated and committed volunteer base
- Diverse CIE Division and Technical Committee leadership, with participation from academia, government, and industry
- Division's core strength resides in addressing issues at the intersection between mechanical engineering, computer and software engineering, and information science

Self-Assessment: Areas for Improvement

- Only a small portion of Division membership is active
- Primary Division activities have focused on the academic research community while division leadership includes strong industry participation; industry majority of Division's membership is underserved
- Significant variations in level of involvement and participation among active members
- Lacking CIE-sponsored/related activities at regional and local chapter levels

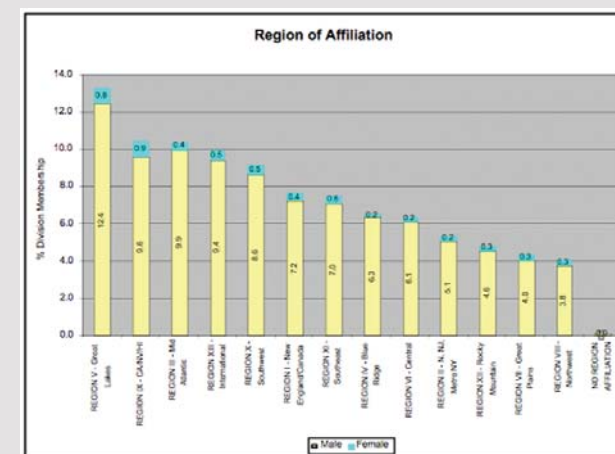
Division Goals

- Division-level health assessments of existing Technical Committees
- Defining multi-year development goals for ExComm members and Technical Committee Chairs aligned with Division's strategic plan and personal interests
- Identify outreach activities to engage members active at regional and chapter levels and encouragement of CIE-related activities at these and all levels within ASME
- Develop a CIE-related thrust within ASME's Education and Training program, to include CIE-related activities in short courses, in-company programs, technology seminars and distance learning

2004-05 Demographics

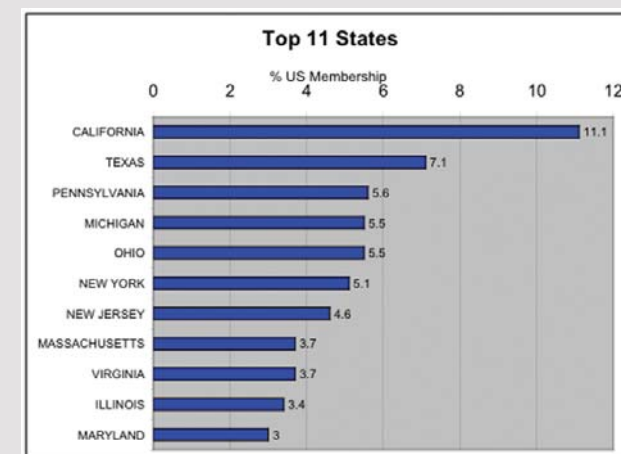
Region of Affiliation

- 53% members in 5 regions (Regions V, IX, III, XIII, X)



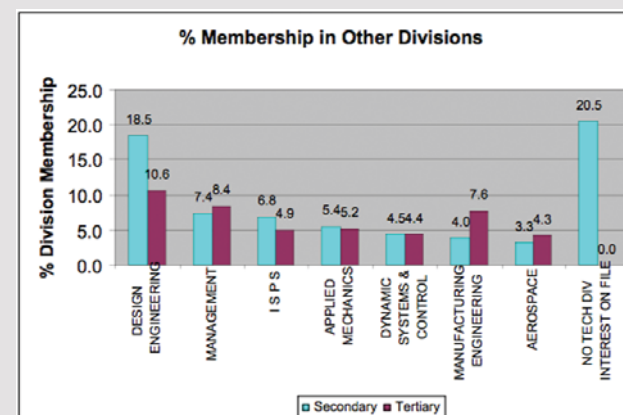
Top 11 States

- 58% of division members in 11 states



% Membership in Other Divisions

- 7 other technical divisions attract 55% of CIE's primary members



Job Function

- 19.5% are students; 46.5% are in 6 general job classifications

