# IEEE Computer Society Technical Council on Software Engineering

Software is everywhere, doing wonderful and critical things to help us manage and improve our lives. The Technical Council on Software Engineering taps into the myriad ways that software is designed, developed, managed, and maintained. TCSE has two overriding aims: to contribute to its members' professional expertise, and to help advance software engineering research and practice. We invite you to join us in exploring, understanding, and improving software processes and products.

Our members are drawn from both the practitioner and research communities, and many of our events and services are focused on enhancing interaction between them. In addition, our two new regional organizations are designed to better serve members through a more local focus. Our flagship conference, the International Conference on Software Engineering (ICSE), has excellent company in our dozens of other workshops, symposia, and conferences that draw specialists from around the globe. Our newsletter reports on software-related activities within and outside of TCSE.

Following is a sample of our special activities. For a more complete picture, visit our web site: http://tcse.org.

**Reverse Engineering and Reengineering**
The Reverse Engineering and Reengineering Committee promotes technologies for recovering information from existing software systems, and describes innovative ways of using this information in system renovation, reuse, and migration. It co-sponsors the Working Conference on Reverse Engineering (WCRE) and the Reengineering Forum (http://reeingineer.org). Committee members are establishing consistent terminology, forming a resource repository for research and education, and disseminating information through newsletters and tutorials. Learn more about the committee at: http://tcse.org/revengr/.

**Improving Software Process**
The Committee on Software Process disseminates software process information by publishing a newsletter three times a year. The committee's activities speed technology transfer and complement other events in the process community, such as the International Software Process Workshops (ISPW) and Conferences (ICSP). More information can be found at the committee's web site: http://www-se.cs.mcgill.ca.

**Global Approach to Requirements Engineering**
The newly-established Task Force on Requirements Engineering is creating an international umbrella organization for the requirements engineering community, promoting cooperation on research, practice, and education. The task force works with the International Symposium on Requirements Engineering (RE) and the International Conference on Requirements Engineering (ICRE). More information can be found at the task force's web site: http://www.shu.ac.uk/tfre/.

**Leadership in Software Engineering Education**
The Committee on Software Engineering Education is involved in several key activities. Curriculum and professionalism materials are being developed by two joint IEEE-CS/ACM committees: Computing and Curriculum 2001 (CC2001), developing a computing curriculum, and the Software Engineering Co-ordination Committee (SWEEC), overseeing the development of a Code of Ethics and

Standards of Practice, a software engineering Body of Knowledge (SWEBOK), and all levels of curriculum and accreditation.

**Reliability**

The Software Reliability Engineering Committee supports the use of measures and analysis to produce more reliable software. Our annual conference, the International Symposium on Software Reliability Engineering (ISSRE), is supplemented by a newsletter and an electronic discussion group (send e-mail to sw-rel@computer.org with "subscribe" in the body).

**Quantitative Methods**

The Quantitative Methods committee studies measurement and prediction in software engineering. Its members assess and estimate characteristics of software products and processes, such as quality, complexity, reliability and cost. Since 1993, the committee has organized a series of Software Metrics Symposia (METRICS) to showcase metrics research and practice, and it publishes a periodic newsletter.

**Join Your 11,000 Peers!**

TCSE works to advance our understanding of software engineering, enhance the careers of professionals involved in research and practice, and create an effective network connecting its members to each other and to related organizations. We encourage you to join us in advancing the state of the art and the practice. For more information, see http://tcse.org or contact the TCSE Chair, Karl Reed, at k.reed@computer.org.