



Joint IEEE Computer

Society and Association for

Computing Machinery

Steering Committee for the

Establishment of Software

Engineering as a Profession

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Background

Mission Statement:

"To establish the appropriate sets(s) of standards for professional practice of software engineering upon which industrial decisions, professional certification, and educational curricula can be based."

Initial Recommendations (11/93):

1. Adopt standard definitions
2. Define Body of Knowledge and Recommended Practices
3. Define Ethical and Professional Practices
4. Define Curricula





Organization

Education' New League' Watch 1002

Steering Committee

Chair: Mario Barbacci (barbacci@sei.cmu.edu)
Vice-chair: Dennis Frailey (frailey@dseg.ti.com)
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“Software Engineering Body of Knowledge and Recommended Practices”

Task Force

“Software Engineering Ethics and Professional Practices”

“Software Engineering Curriculum”

Chair:
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- Mario Barbacci^C (Chair)
- Barry Boehm^A
- Fletcher Buckley^C
- Doris Carver^{*C}
- Elliot Chikofsky^C
- Patricia Douglas^{*}
- Larry Druffel^C
- Stu Feldman^A
- Dennis Frailey^A (vice-chair)
- Donald Gotterbarn^{*A}
- Ron Hoelzeman^{*C}
- Robert Melford^{*C}
- Mary Shaw^A
- John Werth^{*A}
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current society
for Computing
and Information
Technology



Task Force Status — Body of Knowledge and Recommended Practices

- **Developing survey instrument**
- **Developed list of topics for survey on body of knowledge**

- **Conducting workshops for expert practitioners to develop questions on each topic**
 - **Pilot workshop in Dallas, December 1994**
- **Building final survey instrument**
- **Continue publicity through editorials and panels**
 - **Next panel during SEI Conference on Software Engineering Education, New Orleans, March 1995**



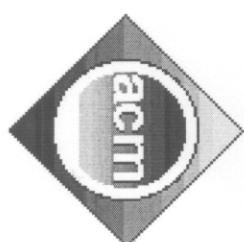
Task Force Status — Ethics and Professional Practices

Working groups

- Institutional support
- Intellectual property
- Professional competence
- Professional relationships
- Privacy
- Reliability and safety
- Security
- Social justice

Called for wide participation (public CFP)

Developed Guide to Operations for Working Groups





Task Force Status — Software Engineering Curriculum

Task force leadership appointed and ready to start working with task force developing survey of body of knowledge

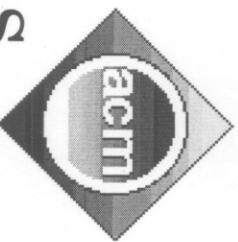
Participated in Dallas workshop to develop survey questions

Survey results will be important input to developing curricula for Software Engineering (education and training)





Other societies and organizations



Institute of Electrical Engineers and British Computing Society

- Certification of software engineers in UK.
- BCS Industry Standard Model (defines skills)

National Society of Professional Engineers

- Examination for Professional Engineers in US
- Restructuring exam to reflect diverse disciplines

National Software Council

- New coalition of Industry, Government, Academia
- Still defining goals
- Planning summit conference in Fall of 1995