Engineering

- “the application of scientific and mathematical principles toward practical ends”
- McConnell – we should be doing software engineering

Parnas

- In other disciplines, engineering professions ensured that the public would know who was qualified
- [Offering services to the public usually requires the professional status, not just working for a company].

TTYP - Different Goals

- What does McConnell mean by different goals for different projects? What other phrase is used?

The call for licensing

- Has much changed since 98?
- Is licensing a good thing?

Time

- How long will it take for software development to be software engineering?
SWEBOK

- What is “generally accepted”
  - A. applicable to most projects most of the time
  - B. applicable uniformly
  - C. widespread consensus about value
  - D. 3-5 year time frame

Why is it important?
- A. course curriculum
- B. licensing of professionals
- C. upgrading professionals

Experimental Models for Validating Technology
Marvin Zelkowitz and Dolores Wallace
IEEE Computer May 98

Terminology
- experiment
- factor
- treatment
- subject
- replication
- Blocking
- factorial design
- local control
- influence
  - passive
  - active
- temporal

TTYP

- What experiments should be done?
- Or, what results would change what you would do?