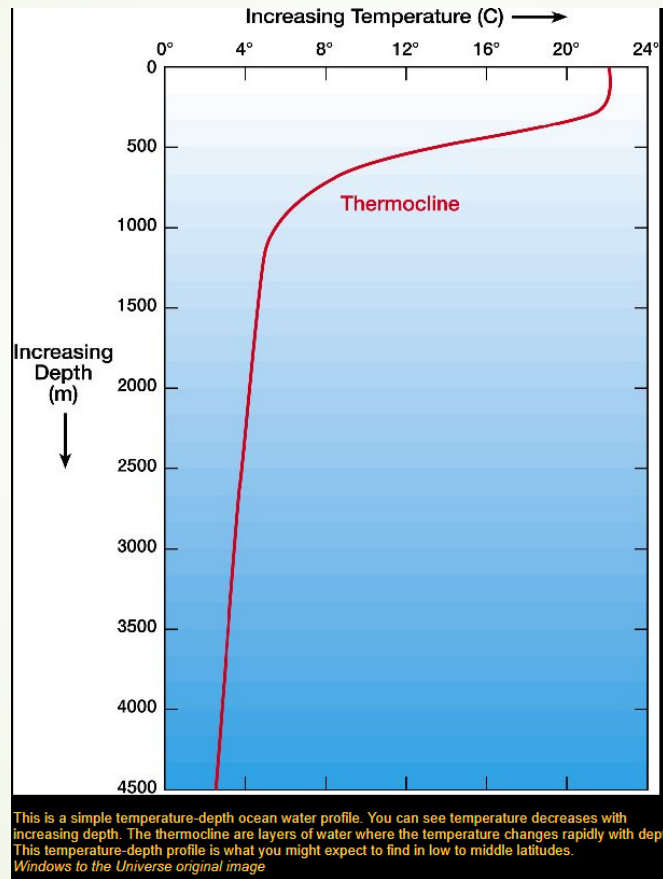


# CS 428 – Webster readings #5

Winter 2019

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# The Thermocline of Truth (2008) [[Link](#)]



# The Thermocline of Truth (cont.)

- ▶ A line drawn across the organizational chart that represents a barrier to accurate information regarding the project's progress
  - ▶ Those below this level tend to know how well the project is actually going
  - ▶ Those above it tend to have a more optimistic (if unrealistic) view
- ▶ Why does it form?
  - ▶ Lack of true metrics (objective, automated, predictive) on project status
  - ▶ Excessive optimism on part of engineers
  - ▶ Self-protection on the part of managers going up the chain
  - ▶ Top management tends to reward good news and punish bad news

# The Thermocline of Truth (cont.)

- ▶ Consequence: as the deadline draws near, the actual project status tends to move upward in the management chain
  - ▶ Hence the classic “slip the project schedule three weeks before delivery” pattern
- ▶ How to avoid it
  - ▶ Honesty and outspokenness on the part of engineers and managers
  - ▶ Rewarding that honesty
  - ▶ Upper management actively seeking out from lower levels realistic feedback on project
  - ▶ Avoiding the temptation of the “quick fix to ship”

# Anatomy of a Runaway IT project (2008)

[\[Link\]](#)

- Quality of work and effort
- Project planning and execution
- Quality assurance and process
- Architecture
- Application performance
- Staffing
- Management principles
- Intellectual honesty

## Do not Defer the Difficult in IT Projects (Baseline, 2008) [[Link](#)]

- ▶ Temptation: the appearance (illusion, really) of progress
  - ▶ Prototyping user interface
  - ▶ Use of third-party libraries, engines, utilities
  - ▶ Getting important modules to “80% completion” and then moving on
- ▶ Finishing that last 10-20% is where things drag on forever
  - ▶ All the hardest problems have been deferred to the end
  - ▶ Can find yourself in “solution deadlock” among remaining hard problems
- ▶ Solution: courage to actively identify and tackle hardest problems first
  - ▶ Initial progress will be slow, but you will be more likely to be able to predict completion