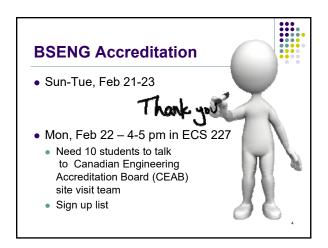
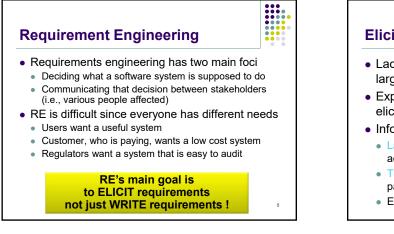
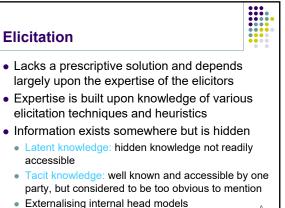


SENG 321 Calendar				
Deliverable S1 due	Tue, Feb 16	S1 formal req spec	10% of project	
Deliverable C1	Thu, Feb 18	C1 feedback on S1	5% of project	
Midterm	Fri, Feb 26	In class	14% of project	
Deliverable S2a	Tue, Mar 1	S2a detailed formal req spec	10% of project	
Deliverable S2b	Thu, Mar 3	S2b & demos	5% of project	
Deliverable C2	Tue, Mar 8	C2 feedback on 23a&b	5% of project	3







Elicitation is Hard

- Stakeholders
 - Have difficulty expressing their needs
 - Ask for things that may not address their needs
 - Have conflicting needs
 - Do not know their priorities
 - Have hard time imagining new ways to do things
 - No clear identifiable stakeholders for new products (surveys/questionnaire)
 - Demands change and evolve over time

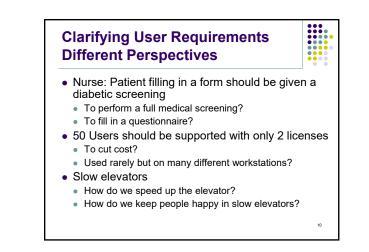
Requirement Elicitation

- "to elicit" → "to bring out, to evoke, to call forth"
- "Getting what is in the customers heads without hurting the customers or their heads" ⁽²⁾
- Elicitation main focus is on communication
- In addition to technical knowledge, elicitation
 - requires
 - Good people skills
 - Common sense
 - "Thinking outside the box" attitude



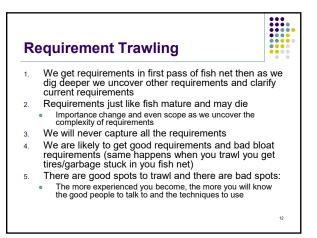
Different and Unclear Goals

- · A child asks dad to make water warmer
- Dad puts hand into the water and finds it warmer than usual?
 - Child wants to make it closer to the temperature that the child calls warm!
- Same for customers their needs and expectations may vary a lot from developers



Requirement Elicitation

- Robertson & Robertson 1999 use the term Requirement Trawling – Just like fish trawling with a net being dragged behind a boat
- **Trawling** is a method of fishing that involves pulling a large fishing net through the water behind one or more boats. The net that is used for trawling is called a **trawl**.

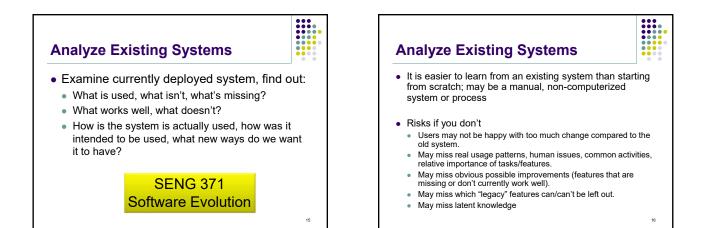


Skills Needed by a Requirements Analyst

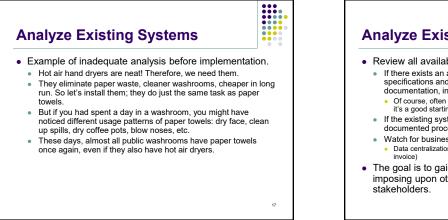
- · A good detective, interviewer and facilitator
 - Identify contexts
 - · Spot ambiguities and evasion tactics
 - Get people to open up
 - Instill guilt
 - Encourage people to participate and brainstorm

Elicitation Techniques

- 1. Reuse old requirements or existing system
- 2. Questionnaire
- 3. Interviews
- 4. Observation and apprenticeship
- 5. Ethnographic studies
- 6. Brainstorming
- 7. JAD: Joint Application Design
- 8. Nominal group technique
- 9. Delphi technique
- 10. PIECES Approach



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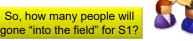


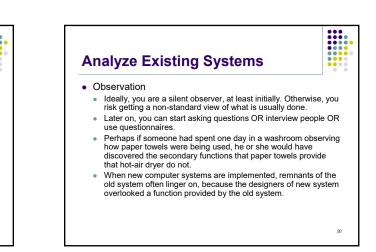


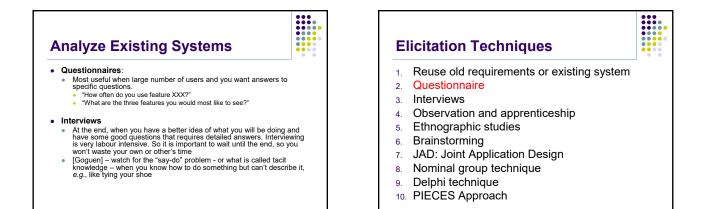
- If the existing system is a manual system, review any documented procedures that the workers must follow.
- Watch for business process reengineering opportunities
 Data centralization to avoid document mismatches (purchase order and involve)
- The goal is to gain knowledge of the system before imposing upon other people's time, before bothering stakeholders.

Analyze Existing Systems

- Observation
 - Go out into the field, and observe the "IT specialists in the mist".
 - Documentation rarely describes a system completely, and it often is not up to date. The current operation of the system may differ significantly from what is described.
 - Besides, no matter how bad a reputation the existing system has for doing the work, the system is not worthless. It contains a lot of useful functionality that should be included in any future system. The objectives of observing the current system is to identify what aspects to keep and to understand the system you are about to change.



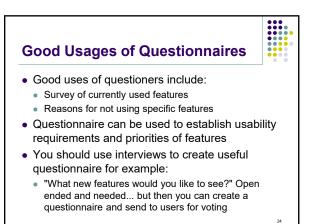




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- Good for large groups when you have specific questions
- NOT appropriate as the only way, they suffer from being a one way communication technique and suffer time lag:
 - You cannot do follow up questions
 - You cannot follow users down interesting paths/points that they might raise during their answer



Common Questionnaires Mistakes

- Bias in sample selection
- Bias in responding users
- Small sample size
- Untested questions that are ambiguous

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