Overview: Focused Workshop on Software Cost, Schedule, and Process

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Outline

- USC-CSE Affiliates and Calendar
- USC-CSE Technology Week, Feb. 8-11, 2000
- Software Engr. Practice Workshop, Aug. 28-29, 2000
- Objectives of This Workshop
- Candidate Breakout Groups and Procedures
COCOMO II Affiliates (27)

- Commercial Industry (10)
  - C-Bridge, EDS, Hughes, Lucent, Microsoft, Motorola, Rational, Sun, Telcordia, Xerox

- Aerospace Industry (9)
  - Boeing, GDE Systems, Litton, Lockheed Martin, Northrop Grumman, Raytheon/East, Raytheon/West, SAIC, TRW

- Government (4)

- FFRDC's and Consortia (4)
  - Aerospace, IDA, SEI, SFC

USC-CSE Affiliates' Calendar

- Oct. 27, 1999 - LA SPIN: Adrian Cowderoy
- Dec. 1, 1999 - LA SPIN: PAL - Ray Madachy
- Feb. 8-11, 2000 - USC-CSE Technology Week, USC
- May 2000 - Annual Affiliates Renewal
- August 28-29, 2000 - SE Practice Workshop
- October 24-27, 2000 - COCOMO/SCM 15
USC-CSE Technology Week: February 8-11, 2000

- Feb. 8 - Annual Research Review
  - COCOMO II; SW Architecture; MBASE; Demos
  - Steering Group Meeting
- Feb. 9 - Executive Workshop
  - Requirements in a World of COTS and Change
- Feb. 10 - Focused Workshop
  - Spiral Experience Workshop (with SEI?)

Software Engr. Practice Workshop
August 28-29, 2000

- Elaboration of successful 1-day 1999 workshop
- Experience summaries of 27 summer interns
  - Allied Signal, Microsoft, SEI, Sun, Telcordia, Xerox, ...  
  - Cisco, Intervu, Netinfo, Netscape, Oracle, RealNetworks
  - Top software product and process lessons learned
- 2006 Workshop: Expand to include
  - Employers’ experiences
  - Alumni experiences
Workshop Objectives

- Address key cost/schedule/process issues
- Assess new directions in cost/schedule/process modeling technology and strategies
- Provide guidelines for USC-CSE research, Affiliate activities
  - Needs, priorities, risks, opportunities
- Stimulate USC-CSE/Affiliate collaboration in the cost/schedule/process area

Top Level Agenda

- Tues. pm: Dinner and kickoff meeting
- Wed. am: USC-CSE presentations at Forum
- Wed. pm, Thurs. am: Affiliate presentations at Forum
- Thurs. pm: Breakout groups
  - 12:00-1:30 pm: Lunch and plenary session
  - 1:30-5:30 pm: Breakout groups
- Fri. am: Breakout group reports; USC-CSE response; wrap-up
  - End by 11:30 am
Proposed Breakout Groups
(Moderator; Scribe)

- COCOTS life cycle extensions
  (Chris Abts, Betsy Bailey)
- Spiral - based phase/activity distributions
  (Winsor Brown, Jongmoon Baik)
- CORADMO and RAD Phenomenology
  (Barry Boehm/Ray Madachy, Cyrus Fakharzadeh)

Breakout Group Guidelines

- Product: briefing, preferably with notes and priorities
- Topics should include:
  - Most critical issues in area
  - Most promising opportunities
  - Results from DELPHI surveys
  - Research suggestions: general, CSE, CSE Affiliates
- Thurs. afternoon plenary session to finalize breakout groups
USC Research Issues

1. Describe/justify what is unique in RAD drivers over and above COCOMO II drivers (given a domain and business model). I-H, D-L
2. Explain/confirm research strategy not tool extension felt s/ump. (["Calibration can not replace thinking in defining a proper model for an area."] Strategic D-L, I-L; tactical D-L, I-H
2b. How can we get feedback on "value" of models/tools even if they have accuracy/reliability drawbacks. D-M, I-L.
3. Run/gather COSSEO/CORADMO against existing data. I-H, D-L
5. COCOMO Balance-sheet: Effort investment for effort or schedule or quality or ... improvement. I-H (if successful), D-M
6. Organization balance sheet: hard and soft capital investments (added to effort investments) for effort or schedule or quality or ... improvement. Note: like SE environment or tooling; different time scale (not project’s); for Sr. Mgt. and corporate strategy. D-H, I-M.

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