Engineering Systems Doctoral Seminar

ESD.934 – Fall 2002

Session 6
October 2, 2002
Chris Magee and Joel Cutcher-Gershenfeld
Guests: Olivier de Weck

Session 6: Overview

- Welcome and Overview and Introductions (5-10 min.)
- Generating Key Questions from Readings (10-15 min.)
- Establishing a Common Language and Set of Methods for Systems Design and Systems Architecture – Olivier de Weck (30-45 min.)
- Break (15 min.)
- Student Presentations (10-15 min. each)
  - A Critical Analysis of Contributions (enabling and constraining) by Well-Known Systems Architects (such as Taiichi Ohno, W. Edwards Demming, General Marshall, Robert McNamara, Steven Jobs, Bill Gates, or others) – Eun Suk Suh
  - Approaching the Question, "How to Determine the Best System Architecture" – Tom Speller
- Book Reviews (5-7 min. each):
  - William Baumol, *The Free-Market Innovation Machine.* Princeton: Princeton University Press (2002) -- Marcus Sarofirm
  - Christensen, Clayton, *Innovator's Dilemma* – Chris Musso
- Integrative Discussion (10-15 min.)
- Next Steps (10-15 min.)
  - Assignment on key themes in advance of ESD faculty seminar and course suggestions

Next Steps Assignments

- **ESD Faculty Seminar Feedback**
  - List up to three (3) key new learnings for you about Engineering Systems – theory, methods, or practice – based on the readings and discussions in this seminar
  - Due October 14th (sent to both Chris and Joel)

- **Potential ESD Courses**
  - Provide a brief course title and outline of topics for a recommended additional to the ESD curriculum at the doctoral level (applicable for ESD, TMP, Transportation or any combination)
  - Due October 21nd (sent to both Chris and Joel)