

First Workshop of the Multidisciplinary Panel on Ubiquitous Computing

Friday, October 1st, 2004

- 8.15 am Continental Breakfast
- 8.45 am Daniel Hastings, Welcome and Introduction to MT NSF IGERT Program on Emerging Technologies
- 9:00 am Looking Ahead: Conventional Wisdoms on Ubiquitous Computing
Facilitator: Frank Field
- Frank Field and students: Conventional Characterizations of the Technologies
 - Kenneth Oye and students: Conventional Assessments of Implications of Ubiquitous Computing
 - Group Discussion: Evaluating Conventional Wisdoms
 - Group Discussion: Highlighting Potential Sources of Uncertainty
 - Group Discussion: Selecting Topics for Research and Follow-up Sessions
- 10:30 am Coffee Break
- 10:50 am Looking Back: Retrospective Cases of Emergent Technologies
Facilitator: David Mindell
- David Mindell: Case of the Analog-Digital Transition
 - Lawrence McCray: Case of the Laser
 - Group Discussion: Identifying Biases and Heuristics in Past Predictions
 - Group Discussion: Assessing Implications for MIT IGERT Project
 - Group Discussion: Selecting Other Retrospective Cases for Research and Follow-up Sessions
- 12:15 pm Luncheon – Unprogrammed
- 1:15 pm Assessing Implications of One Concrete Technology: The Case of RFID
Facilitators: Kenneth Oye and Frank Field
- David Brock: State of Play in RFID
 - Joseph Coughlin: Implications of RFID
 - Daniel Hastings: Information Quantity and Quality as Analytic Keys
 - Group Discussion: Assessing Implications for Economy, Society, Security, and Environment
 - Group Discussion: Identifying and Targeting Sources of Uncertainty
- 2:30 pm Coffee Break
- 2:50 pm Assessing Security, Economic, Environmental and Societal Implications of Ubiquitous Computing
Facilitators: Kenneth Oye and Dava Newman
- David Clark, Perspectives from the Computer Science and Artificial Intelligence Laboratory
 - Rosalind Picard, Perspectives from the Program in Media Arts and Sciences
 - Group Discussion: Near Term Applications Likely to Attract Public and/or Private Investment
 - Group Discussion: Medium Term Implications of Near Term Applications
 - Group Discussion: Identifying Sources of Uncertainty on Applications and Implications
 - Group Discussion: Unknown Unknowns and the Need for Adaptation
 - Group discussion: Identifying Topics for Research and Follow-up Sessions
- 4:30 pm Daniel Hastings, Concluding Remarks