Workshop on Medical Device Assurance
June 29 to July 1, 2012
Rockport, MA

Organized by: John Rushby (SRI) and Chuck Weinstock (SEI)
The Medical Device Dependability Challenge

- Human physiology
- Networking
- Human factors
- Configuration and maintenance
- Manufacturer capability/culture
- Regulation
- Privacy
- ....
Why We Care?

- Great social benefit
- Very innovative technologies
- Among the fastest growing applications of cyber-physical systems
- We’re all candidates to be part of that network!
- 5 to 4
The Workshop Program - Friday

- 0800 – Introduction to the Meeting
- 0815 – Introduction to the Workshop
- 0830 – Challenges and Opportunities
  Chair: Paulo Verissimo
  ◦ Julian Goldman – Partners Healthcare
  ◦ John Knight – University of Virginia
- 1045 – Confidence in Medical Devices
  Chair: David Powell
  ◦ Robin Bloomfield – Adelard/City University
  ◦ John Goodenough – SEI
- 1400 – Security of Medical Devices
  Chair: Roy Maxion
  ◦ Kevin Fu – University of Massachusetts
  ◦ Tamara Denning – University of Washington
The Workshop Program - Saturday

- **0830 – The Device Manufacturer’s Perspective**
  Chair: Aad van Moorsel
  ◦ Ken Hoyme – Boston Scientific
  ◦ Pat Baird – Baxter Laboratories

- **1045 – Hospital and Practitioner’s Perspective**
  Chair: Walt Heimerdinger
  - Rick Schrenker – Partners Healthcare
  - Harold Thimbley – Swansea University
The Workshop Program - Sunday

- 0900 – Challenge Problems
  Chair: John Rushby
  - Insup Lee – University of Pennsylvania
  - Mark Lawford – McMasters University

- 1100 – Discussion and Meeting Wrap Up
  Chair: John Rushby

- 1200 – Adjourn (lunch follows)
Workshop – Not Covered

• Topics not covered (lack of time/lack of contacts)
  ◦ Computerization of medical health records
  ◦ Relationship between devices and health records
  ◦ Regulation
  ◦ Home monitoring
  ◦ Assisted living
  ◦ Related activities in the rest of the world
  ◦ …

• Candidates for a second meeting on the subject
Information for Speakers

- 45 minute talks
- Questions asked at end
- Questions asked during talk (optional)
- Manage your time (session chair will help)
- Each session (two talks) concludes with a 15 minute discussion period
- Please meet with your session chair prior to your session