



Workshop on Medical Device Assurance

June 29 to July 1, 2012

Rockport, MA

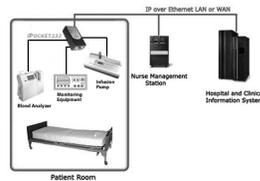
Organized by: John Rushby (SRI) and Chuck Weinstock (SEI)

The Medical Device Dependability Challenge

- Human physiology



- Networking

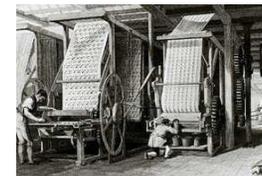


- Human factors



- Configuration and maintenance

- Manufacturer capability/culture



- Regulation



- Privacy



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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 – McMaster 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