Planning Meeting for the National Workshop on

The New Clockwork for Time-Critical Systems

June 11 and 12, 2012

Holiday Inn 2800 Presidential Drive, Fairborn, Ohio, 45324

(Dayton, Ohio)

Agenda

There will be approximately 25-30 attendees at this meeting. The scheduled talks will be forward looking with emphasis on the key issues that require new research effort. Such issues include **but are not limited** to timing vulnerability, faults caused or ameliorated by the use of synchronized clocks and time, missing or incomplete technology, unexplored areas between technologies, temporal consensus, performance, and temporal issues related to distributed systems, wireless connectivity, and mobility. The speakers will set the stage for discussion in which attendees are strongly encouraged to contribute.

June 11, 2012

0730 - 0830	Continental Breakfast (Provided)
0830 - 0840	Welcome and Participant Introductions
0840 - 0900	Session 1: Introduction (Helen Gill, John Eidson, Raj Rajkumar)
	Workshop objectives & introductions
0900 –1000	Session 2: Clock Synchronization (Moderator: John Eidson)
	Summary of key timing and timing security (30 minutes each)
1000 – 1030	GPS, IEEE 1588/SyncE, NTP, Clock technology: John Eidson (UC Berkeley) Timing and Security: Karen O'Donoghue (ISOC) Coffee Break (Provided)
1030 – 1200	Session 3: Example Application Domains for Synchronized Clocks (Moderator: Raj Rajkumar)
	Application-driven topics for new research (30 minutes each)
1200 – 1300	Power systems: Marija Ilic (Carnegie Mellon) Defense: Rick Buskens (LMCO) Transportation: Bill Milam (Ford)
1200 - 1300	Lunch (Provided)

1300 – 1505 Session 4: CPS Issues (Moderator: Al Mok) (25 minutes each)

The Next Frontiers for CPS

Timing and Scheduling: Sanjoy Baruah (UNC)

Physically Asynchronous Logically Synchronous (PALS): Darren Cofer (Rockwell Collins)

Timing Robustness and Fault-tolerance: John Rushby (SRI)

Time and Networking (local, wide area): Keith Marzullo (UC San Diego)

Time and Wireless Sensor Networks: Jack Stankovic (Virginia)

1505 – 1530 Coffee Break (Provided)

1530 – 1645 Session 5: CPS Issues (continued) (moderator: Al Mok) (25 minutes each)

Time and Software Systems (Part 1): Raj Rajkumar (CMU)

Time and Software Systems (Part 2): Christopher Brooks (UC Berkeley)

Time and Controls: Paulo Tabuada (UCLA)

1645 – 1800 Session 6: Drafting CPF and Agenda for fall workshop: (moderator: Raj Rajkumar), (Scribe TBD)

Main issue is which topics to include and whether they are invited or contributed and how we manage acceptance.

1800 Adjourn for the day. Dinner is own your own.

June 12, 2012

0730 – 08:40 Continental Breakfast (Provided)

0830 – 0845 Session 7: Meeting Summary and Remaining Tasks (Helen Gill, John Eidson, Raj Rajkumar)

0845 – 1000 Session 8: Continue drafting CPF and Agenda for fall workshop: (Moderator: Raj Rajkumar), (Scribe TBD)

Main issue is which topics to include and whether they are invited or contributed and how we manage acceptance.

1000 - 1030 Coffee Break (Provided)

1030 –1200 Session 9: Generating final invitee list, keynote speakers, session chairs, implementation plan. (Moderator: John Eidson), (Scribe: TBD)

Main issue is to say yes/no to each name, and to determine the invitation and acceptance process.

1200 Meeting Adjourn, Lunch available to those that want it.