


CPSWEEK 2011 DEMO AND POSTER SESSION - AUTHOR INSTRUCTIONS



The poster and demo session of CPSWeek 2011 will be held at 5:00PM on Tuesday in the Grand Foyer. Dinner will be served starting at 6:30PM on the fourth floor, but presenters are invited to attend their posters and demos until 6:45PM. All presentations are listed at the end of this document. Each presentation has an ID number, which is assigned to a specific poster easel and/or demo table to be found in the attached floor plan of the Grand Foyer.

If you have questions about the session planning and space assignment, please contact Rodolfo Pellizzoni (rpellizz@uwaterloo.ca).

POSTER PRESENTATIONS

We will provide each presenter with a poster easel and a foam board. Mounting pads will be used to secure posters on the boards. The presenters are expected to mount their posters during the coffee break between 3:00PM and 3:30PM, and to remove them by 9:30PM (after the end of the CPSWeek forum). The board surface is 40 inches (101.6 cm) wide and 30 inches (76.2 cm) tall.

DEMO PRESENTATIONS

The hotel will provide tables (6 feet x 30 in) for the demo presentations. Based on the requirements we received, we will assign each demo a space of either half a table (3 feet), one table (6 feet), 3/2 of a table (9 feet), or two tables (12 feet). If you need to power multiple devices, please bring a power strip. Also, if you are not from North America, please do not forget to bring power-adapters for your equipment. We will provide a poster easel and foam board to all demo presenters that required it. If you need a larger screen than your laptop, you are welcomed to bring a separate LCD screen. If that is not an option, you can arrange to rent a monitor or other equipment by contacting Andrew Allnut (aallnut@avt.com) of AVT Event Technology, the audio/visual equipment provider for the event. However, please understand that the CPSWeek organization cannot pay for it.

The demo tables will be ready around 2:00PM. We strongly encourage all presenters to set-up and test their demos well before the start of the session at 5:00PM. Poster easels will be ready before the start of the coffee break at 3:00PM. All demos will have to be removed from the tables by 10:00PM.

802.15.4 CHANNEL ASSIGNMENT

All demos that use 802.15.4 have been assigned a 5Mhz channel in the 2.4Ghz band. The assignment has been performed to reduce interference both among the demos themselves, and with the existing 802.11b/g hotel Wi-Fi deployment. If the assigned channel does not work for you, channels 25 and 26 are reserved as backup. We have not assigned frequencies in the 5Ghz band, since only three demos required it, and they are located far from each other.

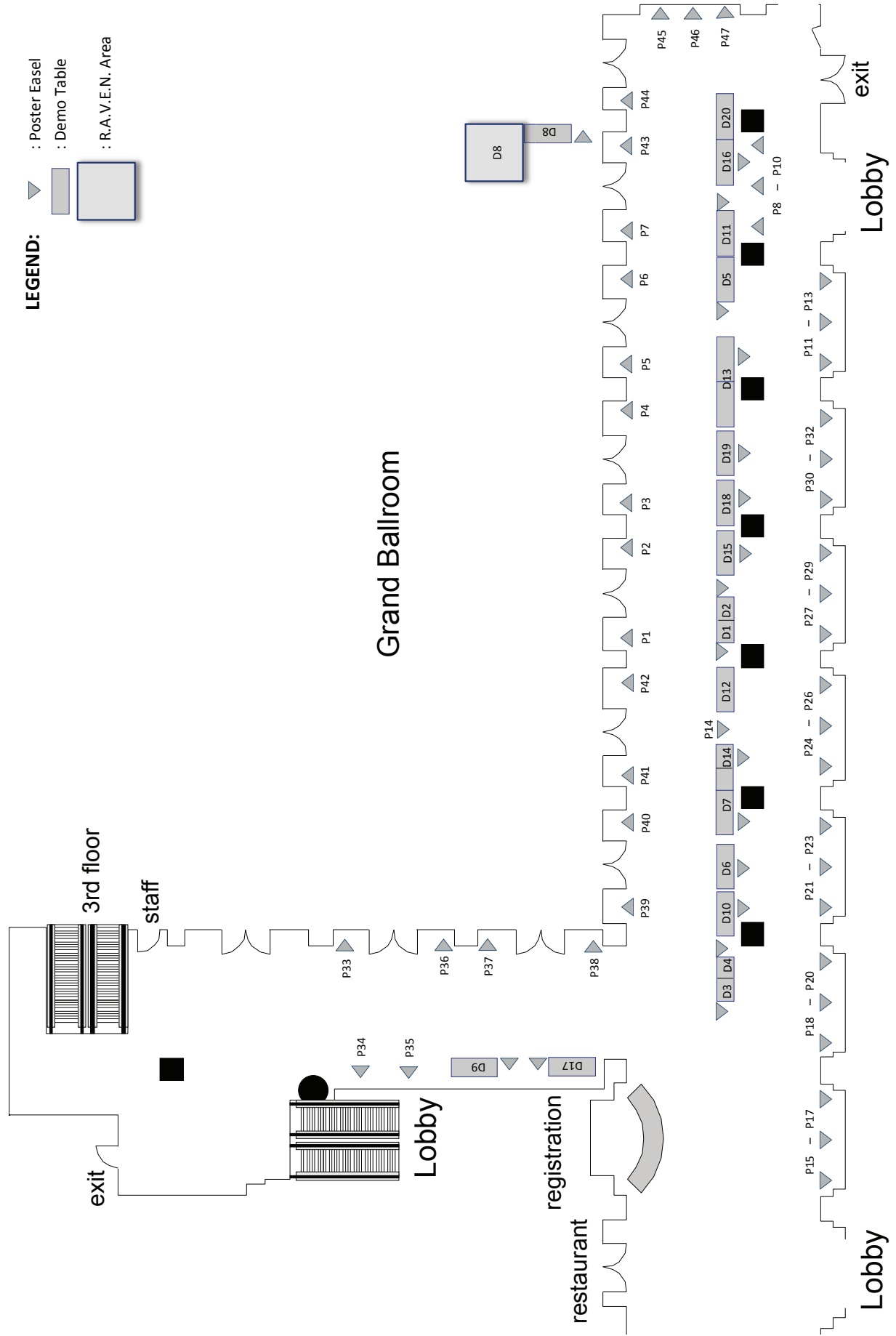
If you have any concern about the frequency assignment, or your demo uses a non-standard MAC scheme in 2.4Ghz band, please contact Kamin Whitehouse (whitehouse@virginia.edu) and Rodolfo Pellizzoni (rpellizz@uwaterloo.ca).

INTERNET ACCESS

Wi-Fi connectivity is available in the Grand Foyer. As a backup for demos that require a stable Internet connection, we also have a limited number of wired Ethernet connections.

POSTER AND DEMO SESSION EASEL AND TABLE ASSIGNMENT

Grand Ballroom Foyer




POSTER PRESENTATIONS



ID	Venue	Title
P1	IPSN	Three Plane Localization
P2	IPSN	Message Position Modulation for Power Saving and Increased Bandwidth in Sensor Networks
P3	IPSN	Near-real-time Analysis for REACTS
P4	IPSN	Cross-Platform Embedded Wireless System Development
P5	IPSN	Multi-Purpose Passive Debugging for Embedded Wireless
P6	IPSN	Hardware Platform for Wireless Geophysical Monitoring
P7	IPSN	Power Watermarking: Facilitating Power-based Diagnosis of Node Silence in Remote High-end Sensing Systems
P8	IPSN	Mobile-CC: A Congestion Mitigation Approach using Mobile Nodes in Wireless Sensor Networks
P9	IPSN	Modeling an Electronically Switchable Directional Antenna for Low-power Wireless Networks
P10	IPSN	A Channel Quality Metric for Interference-Aware Wireless Sensor Networks
P11	IPSN	Interoperability for Data Processing in Distributed Sensor Networks
P12	IPSN	Accurate Monitoring of Circadian Rhythms using Wearable Body Sensor Networks
P13	IPSN	LinkBench: benchmark and metric framework for wireless sensor networks
P14	IPSN	Proposed long-distance communication in sensor network using weak radio waves and DSP
P15	RTAS	Unified Timing Analysis for Shared Caches of Multicores
P16	RTAS	Meeting End-to-End Deadlines through Distributed Local Deadline Assignment
P17	RTAS	Deadline and Period Selection for Real-Time Update Transactions on Global Multiprocessor Platforms
P18	RTAS	Task Migration Mechanisms for Hard Real-Time Distributed Systems
P19	RTAS	Performance Analysis of Synchronous Models Implementations on Loosely Time-Triggered Architectures
P20	RTAS	Task Implementation and Schedulability Analysis of Synchronous of Finite State Machines
P21	RTAS	Towards Exact Thresholds for Scheduling n Tasks on m Processors Based on Partitioned EDF
P22	RTAS	Optimizing Energy Use in P-FRP through Dynamic Voltage Scaling
P23	RTAS	A Prediction-Based Approach for Energy-Efficient DVS Scheduling of Dependent Real-Time Tasks
P24	RTAS	Model-based Development of Energy-efficient Automation Systems
P25	RTAS	An Adaptive Transmission Rate Control Approach to Minimize EnergyConsumption
P26	RTAS	The Roman Conquered by Delay: Reducing the Number of Preemptions using Sleep States

POSTER PRESENTATIONS (CONT)



ID	Venue	Title
P27	RTAS	Exploring the Temperature Characteristics of Processors in Constrained Space
P28	RTAS	Application of Potential Games to Voronoi Coverage Problems with Vehicle-free Areas
P29	RTAS	Multifunk: Self-Organizing Sensor Networks for Industrial Process Monitoring
P30	RTAS	Real-time Algorithms Composition for Automatic Video Quality Verification
P31	RTAS	Software Component-Based HW/SW Cosimulation Framework: A Case Study
P32	RTAS	Deterministic Real-time Thread Scheduling
P33	ICCPS	Toward Online Hybrid Systems Model Checking of Cyber-Physical Systems Time-Bounded Short-Run Behavior
P34	ICCPS	A Logic-based Modeling and Verification of CPS
P35	ICCPS	High Confidence Embedded Software Design: A Quadrotor Helicopter Case Study
P36	ICCPS	Enforcing safety of cyberphysical systems using flatness and abstraction
P37	ICCPS	A Co-Simulation Approach for Control Performance Analysis during Design Space Exploration of Cyber-Physical Systems
P38	ICCPS	Cyber-Physical Systems for Next Generation Intelligent Buildings
P39	ICCPS	The problem with time in mixed continuous/discrete time modelling
P40	ICCPS	A Core Language for Executable Models of Cyber Physical Systems
P41	ICCPS	Passivity-Based Self-Triggered Control: A Case Study On The Trajectory Tracking Control Of A Robotic Manipulator
P42	ICCPS	Toward Autonomous Vehicle Safety Verification from Mobile Cyber-Physical Systems Perspective
P43	LCTES	Global Platform Management by Using Synchronous Device Drivers in μ -Kernel-based Systems
P44	HSCC	SHAVE - Stochastic Hybrid Analysis of Markov Population Models Quantified Differential Invariants
P45	HSCC	TuLiP: A Software Toolbox for Receding Horizon Temporal Logic Planning
P46	HSCC	Pessoa 2.0: A Controller Synthesis Tool for Cyber-Physical Systems
P47	HSCC	A step towards verification and synthesis from Simulink/Stateflow models

DEMO PRESENTATIONS

ID	Venue	Title	Table Size	Channel
D1	IPSN	TinyTracer: Diagnostic Tracer for Wireless Sensor Networks	3ft x 30in	24
D2	IPSN	Debugging Wireless Sensor Network Simulations with YETI and COOJA	3ft x 30in	11
D3	IPSN	Interactive Browsing of Large Sensor Network Data Sets	3ft x 30in	11
D4	IPSN	Online Detection of Speaking from Respiratory Measurement Collected in the Natural Env.	3ft x 30in	14
D5	IPSN	AutoPlug - An Automotive Test-bed for ECU Testing, Validation and Verification	6ft x 30in	20
D6	IPSN	DustDoctor: A Self-healing Sensor Data Collection System	6ft x 30in	16
D7	IPSN	EnRoute: An Energy Router for Energy-Efficient Buildings	9ft x 30in	19
D8	IPSN	R.A.V.E.N. – Remote Autonomous Vehicle Explorer Network	6ft x 30in	26
D9	IPSN	Closed-loop Testing for Implantable Cardiac Pacemakers	6ft x 30in	21
D10	IPSN	The Next Big One: Detecting Earthquakes and other Rare Events from Community-based Sensors	6ft x 30in	15
D11	IPSN	Architecture for a Fully Distributed Wireless Control Network	6ft x 30in	21
D12	IPSN	Feature-Rich Platform for WSN Node Design Space Exploration	6ft x 30in	21
D13	IPSN	Radio-diversity Collection Tree Protocol	12ft x 30in	19
D14	IPSN	A prototype of sensor network visualization application with geographic information	3ft x 30in	20
D15	IPSN	A Service-oriented Application Programming Interface for Sensor Network Virtualization	6ft x 30in	14
D16	IPSN	PhotoNet: A Similarity-aware Image Delivery Service for Situation Awareness	6ft x 30in	24
D17	IPSN	Apollo: Towards Factfinding in Participatory Sensing	6ft x 30in	24
D18	IPSN	EcoIMU: A Compact, Wireless, Gyro-Free Inertial Measurement Unit Based on Two Triaxial Accel.	6ft x 30in	15
D19	IPSN	EcoCast: Interactive, Object-Oriented Macroprogramming for Networks of Ultra-Compact WSN	6ft x 30in	16
D20	HSCC	HSCC Tool Presentation	6ft x 30in	