

CPS Education Workshop

8/12/2010

<http://cyberphysicalsystems.org/cpsew>

8:00 am to 8:30 am	Continental Breakfast
8:30 am to 8:40 am	Workshop Organization, Edward Lee , Berkeley
8:40 am to 9:20 am	Keynote: Innovation in and into Education: Creating the workforce to thrive in the Innovation Economy , Curt Carlson , SRI
9:20 am to 10:00 am	<ul style="list-style-type: none"> • <i>The use of physical testbeds in CPS education</i>, Claire Tomlin, Berkeley • <i>Conveying Cyber Physical Systems Principles through Marine Robotics Student Competitions</i>, Fumin Zhang, Georgia Tech
10:00 am to 10:20 am	Break
10:20 am to 12:00 pm	<ul style="list-style-type: none"> • <i>Educational Foundations for Brain-Machine Interface Systems</i>, Timothy Bretl, Illinois • <i>Data Science Education for Cyber-Physical Systems</i>, Jiawei Han, Illinois • <i>Bridging Gaps at Harvard: Catalyst and the Wyss Institute</i>, Eugene Goldfield, Children's Hospital Corporation • <i>A Proposal for Longevity-Oriented Curriculum Enhancement Utilizing Cyber-Physical Systems</i>, David Walter, Virginia State Univ. • <i>Teaching Cyberphysical Systems to Civil Engineering Students</i>, Lucio Soibelman, Carnegie-Mellon University
12:00 pm to 1:10 pm	Working Lunch
1:10 pm to 1:30 pm	• <i>Vision of CPS Education</i> , Helen Gill , NSF
1:30 pm to 3:10 pm	<ul style="list-style-type: none"> • <i>Models for CPS Education and Experimentation</i>, Jonathan Sprinkle, University of Arizona • <i>Smartphones as environmental sensors: from the lab to the classroom and further</i>, Alex Bayen, Berkeley • <i>Introductory Textbook for CPS</i>, Edward A. Lee, Berkeley • <i>Report on the CMACS workshop on modeling cellular signaling pathways</i>, Nancy Griffith, CUNY/Lehman • <i>Teaching CPS Design Issues at Different Levels starting with a Two-Week CPS Educational Program for Ohio High School Students</i>, Ashok Krishnamurthy, Ohio State
3:10 pm to 3:30 pm	Break
3:30 pm to 4:50 pm	<ul style="list-style-type: none"> • <i>Robotics: An Educational Opportunity in Cyber-Physical Systems</i>, Nikhil Chopra, Maryland • <i>Policy Aware CPS Education</i>, Anant Sahai, Berkeley • <i>Cars: Barriers for CPS Educators</i>, Francesco Borrelli, Berkeley • <i>High-Assurance CPS Project: The Pacemaker Challenge Problem</i>, Insup Lee, Penn
4:50 pm to 5:30 pm	Wrap up discussion

