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Pre-Conference Workshop
CS Principles and The Beauty and Joy of Computing Curriculum
Daniel D. Garcia Ph.D., Lecturer SOE, UC Berkeley EECS Department
This workshop is for high school and college teachers of general-interest ("CS 0") computer science courses. It presents the programming environment used in two of the five initial AP CS Principles pilot courses.

Keynote Address
THE BEAUTY AND JOY OF COMPUTING (BIC), AP CS PRINCIPLES, AND THE CS 10K EFFORT
Daniel D. Garcia Ph.D., Lecturer SOE, UC Berkeley EECS Department
BIC was chosen as one of the initial pilots for a new "AP CS: Principles" exam to be introduced in 2015. Under their CE21 initiative, we were funded to provide paid intensive six-week summer workshops for high school teachers. This talk will review the status of all of these projects, the development of Build Your Own Blocks (BYOB), and how faculty, students and high school teachers can engage with these important efforts.

Workshop
Programming for the Xbox Kinect™ Sensor
Chuck Pheatt & Jeremiah McMullen, Emporia State University
3:15 - 4:00

Workshop
Conducting Departmental Reviews and Serving as a Reviewer
Henry Walker, Grinnell College
[this workshop will run from 3:30 - 5:00]

Workshop
An Introduction to Signed and Encrypted E-mail Using a Webmail Interface
John Gigas, Park University
3:15 - 3:45

Involving Undergraduate Computer Science Students in the Support of Academic Research: A Project Report
Scott Sigman, Mark Wood, Donald Deeds, Bruce Callen & Charles Allen, Drury University
3:50 - 4:30

Arduino Based Projects in the Computer Science Capstone Course
Paul Bender & Kay Kussmann, McNeese State University
An Affordable Virtual Laboratory Infrastructure to Complement a Variety of Computing Classes
Suleyman Usluag, Stephen H. Turner, Murat Karakus & Evrim Guler, University of Michigan - Flint
3:50 - 4:45

Bringing Unity to the Classroom
Michael Rogers, Northwest Missouri State University
A Comparison of Objective-C and C#: Implementing CREATE Class
Kailash Chadha, Pittsburgh State University
Android Authentication and Device Administration API
Ravikant Agarwal & Sergii Bikhatnikh, St. Norbert College
4:55 - 5:10

Vendor
VMware’s Academic Programs
The vTIA (VMware IT Academy) Program introduces college students to VMware technologies and equips the students with VMware technical skills to complement their chosen fields of study.
Panel Discussion
Engaging Undergraduate Computer Science Students in Academic Research – I Participated in the SaM VIP Project!
Scott Sigman, Drury University; Kristen Howell, Missouri State University; Robert Krudsson, Black Lantern Studios; Jason Barnes, Paperwise
3:00 - 6:00

POSTER JUDGING
11:00 - 11:40 • Break - Networking - Vendor – Poster Sessions
11:45 - 12:45

Vendor
LEGO Education Mindstorms NXT Hands-On Workshop
Come explore the Mindstorms robotics hardware, and program to explore how robotics can be used to bring STEM into the classroom.

Vendor
LEGO Education WeDo Robotics:
Explore a new elementary robotics platform for 1st-3rd grade. The hands-on workshops will introduce both the hardware, and programming software that allows teachers to bring more math and science into the classroom using technology.

Vendor
Pradeep Natarajan
IBM Informix for a Smarter Planet
As the world gets smarter, we are increasingly dealing with smarter and interconnected devices. As a result, every business/organization/individual seems to be drowning in an ocean of time-dimensional data.
Without the use of databases and BI tools, the data will be unmanageable. In this presentation, the audience can learn about how Informix TimeSeries is helping clients save energy, save money, and save "Time" in new and creative ways. Examples will include Smart Metering solution using IBM Informix for energy utility companies, Smart Traffic solution for efficient routing to reduce traffic congestion, and Smart freight pickup delivery solution.

Vendor
Jim Lathrop, Shodor Education Foundation and the National Center for Supercomputing Applications (NCSA)
"The National Impartive to Advance Science and Engineering Research and Education"
Mr. Scott Lathrop, Shodor Education Foundation and the National Center for Supercomputing Applications (NCSA)
6:30 - 8:30 • Banquet

1:00 - 2:00 • Luncheon & Business Meeting
2:15 - 3:30 • Missouri CSTA Meeting
2:00 - 6:00 • Student Programming Contest