



Consortium for Computing Sciences in Colleges



Central Plains Conference
**OZARKS TECHNICAL
COMMUNITY COLLEGE**
Springfield, Missouri
March 30-31, 2012

2012 Regional Conference Steering Committee

- George Gibeau, Chair, Local Arrangements, Publicity
Ozarks Technical Community College
- Carol Browning, Co-Chair, Lodging *Drury University*
- Bob Neufeld, Member at Large *McPherson College*
- Baochuan Lu, Papers Chair *Southwest Baptist University*
- Ron McCleary, Chair Workshops, Tutorials, Panels *Avila University*
- Carol Spradling, Nifty Course Assignments Chair
Northwest Missouri State University
- Wen-Jung Hsin *Park University*
- Henry Walker, Submission/Review System *Grinnell College*
- John Dooley, Submission/Review System *Knox College*
- Tim DeClue, K-12 Teachers Committee Chair *Southwest Baptist University*
- Scott Bell, Conference Secretary *Kansas State University*
- Rick Barker, Student Posters Chair *Washburn University*
- BaoQiang Yan, Tutorials *Missouri Western State University*
- Brian Hare, Regional Registrar, Student Programming Contest Chair
University of Missouri – Kansas City
- Michael Rogers, Regional Vendors, Regional Webmaster
Northwest Missouri State University
- Phil Heeler *Northwest Missouri State University*
- Ed Mirielli *Westminster College*
- Linda Webster *Westminster College*
- Scott Sigman, Regional Board Chair *Drury University*
- Dean Sanders, Regional Editor *Northwest Missouri State University*
- Judy Mullins, Regional Treasurer *University of Missouri – Kansas City*
- Mahmoud Yousef, Past Conference Chair *University of Central Missouri*



Consortium for Computing Sciences in Colleges



Central Plains Conference
**OZARKS TECHNICAL
COMMUNITY COLLEGE**
Springfield, Missouri
March 30-31, 2012

FRIDAY			SATURDAY		
TRACK ONE	TRACK TWO	TRACK THREE	TRACK ONE	TRACK TWO	TRACK THREE
<div>9:00 - 12:00</div> <div> Pre-Conference Workshop CS Principles and The Beauty and Joy of Computing Curriculum <i>Daniel D. Garcia Ph.D., Lecturer SOE, UC Berkeley EECS Department</i> 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. </div>			<div>8:30 - 9:30</div> <div> Learning theory in Computer Science 1: An Experiment Supporting the Use of Multiple Languages Tim DeClue, James Cain & Jeff Kimball, <i>Southwest Baptist University</i> Towers of Hanoi Related Problems Suchindran Maniccam, <i>Eastern Michigan University</i> A Game Design Approach to CS2 Daniel Cliburn, <i>University of the Pacific</i> </div>		
<div>1:00 - 2:00</div> <div> Keynote Address THE BEAUTY AND JOY OF COMPUTING (BJC), AP CS PRINCIPLES, AND THE CS 10K EFFORT <i>Daniel D. Garcia Ph.D., Lecturer SOE, UC Berkeley EECS Department</i> BJC 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. </div>			<div>9:35 - 9:55 • Break (light snacks) - Networking - Vendor</div>		
<div>2:10 - 3:10</div> <div> The Design of an Undergraduate Web Application Development Course Using Free Technologies and Learning Materials Srikanth Mudigonda & John Buerck, <i>Saint Louis University</i> </div>	<div> Workshop Programming for the Xbox Kinect™ Sensor Chuck Pheatt & Jeremiah McMullen, <i>Emporia State University</i> </div>	<div> Nifty Assignments: Constructing and Defining Technical Diagrams Used in Software Engineering Projects Edward Mirielli, <i>Westminster College</i> Teaching and Assessing Ethics in Online Computer Science Courses Russell Fail, <i>Kaplan University</i> </div>	<div>10:00 - 11:00</div> <div> Workshop Proven Strategies That Increase Participation of High School Students in Computing Henry Walker, <i>Grinnell College</i> </div>	<div> Vendor LEGO Education WeDo Robotics Come 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. </div>	<div> 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. 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 pick-up delivery solution. </div>
<div>3:15 - 3:45 • Break (light snacks) - Networking - Vendor</div>			<div>POSTER JUDGING</div>		
<div>3:50 - 4:50</div> <div> Involving Undergraduate Computer Science Students in the Support of Academic Research: A Project Report Scott Sigman, Mark Wood, Donald Deeds, Bruce Callen & Charles Allen, <i>Drury University</i> Arduino Based Projects in the Computer Science Capstone Course Paul Bender & Kay Kussmann, <i>McNeese State University</i> An Affordable Virtual Laboratory Infrastructure to Complement a Variety of Computing Classes Suleyman Uludag, Stephen W. Turner, Murat Karakus & Evrim Guler, <i>University of Michigan - Flint</i> </div>			<div>11:00 - 11:40 • Break - Networking - Vendor – Poster Sessions</div>		
<div>5:15 - 6:15</div> <div> Bringing Unity to the Classroom Michael Rogers, <i>Northwest Missouri State University</i> A Comparison of Objective-C and C#: Implementing CBOX Class Kailash Chandra, <i>Pittsburg State University</i> Android Authentication and Device Administration API Ravikant Agarwal & Sergii Bilokhatniuk, <i>St. Norbert College</i> </div>	<div> Workshop Conducting Departmental Reviews and Serving as a Reviewer Henry Walker, <i>Grinnell College</i> <i>(this workshop will run from 3:30 - 5:00)</i> </div>	<div> Workshop An Introduction to Signed and Encrypted E-mail Using a Webmail Interface John Cigas, <i>Park University</i> </div>	<div>11:45 - 12:45</div> <div> Workshop Computational Thinking Outreach: Reaching Across the K-12 Curriculum Kian Pokorny & Nathan White, <i>McKendree University</i> Lego Mindstorm NXT Controller with Peer-to-Peer Video Streaming in Android Ravikant Agarwal, Christopher Gusman & Derek Harrington, <i>St. Norbert College</i> Silent Partners: Discovering Computer Science in the Missouri K12 Math Curriculum Tim DeClue, <i>Southwest Baptist University</i>; Ashley Copeland, <i>Macks Creek High School</i>; Jennifer Ray, <i>Stockton High School</i> </div>	<div> Workshop Unity 3 Tutorial Michael Rogers, <i>Northwest Missouri State University</i> </div>	<div> Workshop How to Deliver a Gentle Introduction to LR Parsing David Middleton, <i>Arkansas Tech University</i> </div>
<div>4:55 - 5:10 • Break (light snacks) - Networking - Vendor</div>			<div>1:00 - 2:00 • Luncheon & Business Meeting</div>		
<div>6:30 - 8:30 • Banquet • “The National Imperative to Advance Science and Engineering Research and Education”. Mr. Scott Lathrop, <i>Shodor Education Foundation and the National Center for Supercomputing Applications (NCSA).</i></div>			<div>2:15 - 3:30 • Missouri CSTA Meeting</div>		
			<div>2:00 - 6:00 • Student Programming Contest</div>		