

## SIGCSE 2016 HIGHLIGHTS FOR K-12 Educators

### WEDNESDAY

7:00 PM - 10:00 PM Workshops

*These are optional workshops that you can pay to attend.*

**Workshop #2:** Making Music with Computers: Creative Programming in Python (room: L2-L3)

Bill Manaris, College of Charleston

Tobias Kohn, ETH Zürich

**Workshop #3:** A Web-Based IDE for Teaching with Any Language (room: L5-L6)

Dan Armendariz, Harvard University

David Malan, Harvard University

Nikolai Onken, Cloud9

**Workshop #4:** High Yield in the Short Term: Planning Strategically to Get Women into your Major(room: L8)

Lecia Barker, University of Texas at Austin

Leisa Thompson, University of Virginia

**Workshop #5:** Guiding Students to Discover CS Concepts and Develop Process Skills using POGIL(room: L9)

Clifton Kussmaul, Muhlenberg College

Helen Hu, Westminster College

Chris Mayfield, James Madison University

**Workshop #6:** Engage, Energize and Empower Your Students with Team-Based Learning (room: L10)

Lenore Horowitz, University at Albany

George Berg, University at Albany

Kimberly Van Orman, University at Albany

**Workshop #9:** Reading and Writing like Computer Scientists: How to Promote Critical Thinking and Student Engagement (room: River Bluff)

Mark Hoffman, Quinnipiac University

Jerod Weinman, Grinnell College

**Workshop #10:** Lego-based Case Studies for Teaching Software Engineering Concepts throughout the Curriculum (room: Sultana)

Stan Kurkovsky, Central Connecticut State University

**Workshop #11:** Peer Instruction in Computing: a Focus on Student Learning (room: Mississippi)

Daniel Zingaro, University of Toronto Mississauga

Leo Porter, University of California, San Diego

Quintin Cutts, University of Glasgow

John Glick, University of San Diego

Joe Hummel, University of Illinois at Chicago

Cynthia Lee, Stanford University

Jaime Spacco, Knox College

### THURSDAY

8:30 AM - 10:00 AM

Plenary Session - John Sweller - UNSW Australia

10:00 AM - 10:45 AM - Break, Exhibits & Demos

Be sure to visit the Exhibit Hall to visit vendor booths, see Demos, and get a snack!

## 10:45 AM - 12:00 PM - Recommended Sessions

### **Papers: Computational Thinking (room: L13-L14)**

10:45 AM Investigating Differences in Wiki-based Collaborative Activities between Student Engagement Profiles in CS1

*Adam Eck, University of Nebraska-Lincoln*

*Leen-Kiat Soh, University of Nebraska-Lincoln*

*Duane Shell, University of Nebraska-Lincoln*

11:10 AM A Study on the Impact of Multidisciplinary Collaboration on Computational Thinking

*S. Monisha Pulimood, The College of New Jersey*

*Kim Pearson, The College of New Jersey*

*Diane C. Bates, The College of New Jersey*

11:35 AM Computational Thinking as Liberal Studies

*Dave Mason, Ryerson University*

*Irfan Khan, Ryerson University*

*Vadim Farafontov, Ryerson University*

### **Papers: Research on Learning (room: L5-L6)**

10:45 AM An Examination of Layers of Quizzing in Two Computer Systems Courses

*Cindy Norris, Appalachian State University*

11:10 AM Subgoals Help Students Solve Parsons Problems

*Briana Morrison, Georgia Institute of Technology*

*Lauren Margulieux, Georgia Institute of Technology*

*Barbara Ericson, Georgia Institute of Technology*

*Mark Guzdial, Georgia Institute of Technology*

11:35 AM As CS Enrollments Grow, Are We Attracting Weaker Students?: A Statistical Analysis of Student Performance in Introductory Programming Courses Over Time

*Mehran Sahami, Stanford University*

*Chris Piech, Stanford University*

### **Papers: Professional Development (room: L2-L3)**

10:45 AM Implementation and Outcomes of a Three-Pronged Approach to Professional Development for CS Principles

*Chrystalla Mouza, University of Delaware*

*Lori Pollock, University of Delaware*

*Kathleen Pusecker, University of Delaware*

*Kevin Guidry, University of Delaware*

*Ching-Yi Yeh, University of Delaware*

*James Atlas, University of Delaware*

*Terry Harvey, University of Delaware*

11:10 AM Deploying Exploring Computer Science Statewide

*Helen Hu, Westminster College*

*Cecily Heiner, Southern Utah University*

*Jay McCarthy, University of Massachusetts Lowell*

11:35 AM TEALS: Teacher Professional Development Using Industry Volunteers

*Nathaniel Granor, Microsoft/TEALS*

*Leigh Ann DeLyser, CSNYC*

*Kevin Wang, Microsoft/TEALS*

### **Panel (room: Steamboat)**

Rediscovering the Passion, Beauty, Joy, and Awe: Making Computing Fun Again, part 8

*Daniel Garcia, UC Berkeley*  
*Josh Caldwell, code.org*  
*Pamela Fox, Khan Academy*  
*Jeremy Keeshin, CodeHS*

12:00 PM - 1:45 PM - LUNCH:

If this is your first SIGCSE, be sure to go to the FirstTimer's Lunch!

1:45 PM - 3:00 PM - Recommended Sessions

**Papers: CS0 (room: L2-L3)**

1:45 PM CS0 for Computer Science Majors at Ohio University

*Cindy Marling, Ohio University*

*David Juedes, Ohio University*

2:10 PM Security Injections 2.0: Increasing Ability to Apply Secure Coding Knowledge using Segmented and Interactive Modules in CS0

*Sagar Raina, Towson University*

*Siddharth Kaza, Towson University*

*Blair Taylor, Towson University*

2:35 PM Combining “Big Data” and “Thick Data” Analyses for Understanding Youth Learning Trajectories in a Summer Coding Camp

*Deborah Fields, Utah State University*

*Lisa Quirke, University of Toronto*

*Janell Amely, Utah State University*

*Jason Maughan, Utah State University*

**Special Session (room: Cotton Row)**

Training Teachers to Integrate Computational Thinking into K-12 Teaching

*Rania Hodhod, Columbus State University*

*Shamim Khan, Columbus State University*

*Yesem Kurt-Peker, Columbus State University*

*Lydia Ray, Columbus State University*

**Special Session (room: Steamboat)**

Demystifying Computing with Magic, part III

*Daniel Garcia, UC Berkeley*

*David Ginat, Tel-Aviv University*

**Supporter Session (room: Sultana)**

Google Supporter Session - Up Close and Personal with Google CS Programs

3:00 PM - 3:45 PM - Break, Exhibits & Demos

3:45 PM - 5:00 PM - Recommended Sessions

**Papers: Scratch (room: L2-L3)**

3:45 PM ITCH: Individual Testing Of Computer Homework For Scratch Assignments

*David Johnson, University of Utah*

4:10 PM Multi-Track Programming Competitions with Scratch

*Jason Arnold, Marquette University*

*Heather Bort, Marquette University*  
*Ryan Naugle, Marquette University*  
*Casey O'Hare, Marquette University*  
*Dennis Brylow, Marquette University*

4:35 PM Initialization in Scratch: Seeking Knowledge Transfer

*Diana Franklin, University of Chicago*  
*Charlotte Hill, University of California, Santa Barbara*  
*Hilary Dwyer, University of California, Santa Barbara*  
*Alexandria Hansen, University of California, Santa Barbara*  
*Ashley Iveland, University of California, Santa Barbara*  
*Danielle Harlow, University of California, Santa Barbara*

**Special Session (room: Cotton Row)**

Special Session: ACM Joint Task Force on Cybersecurity Education

*Diana Burley, George Washington University*  
*Matt Bishop, University of California, Davis*  
*Elizabeth Hawthorne, Union County College*  
*Siddharth Kaza, Towson University*  
*Lynn Fitcher, Nelson Mandela Metropolitan University*  
*Scott Buck, Intel*

**Panel (room: Steamboat)**

Technology We Can't Live Without!, revisited

*Daniel Garcia, UC Berkeley*  
*Leslie Aaronson, Forshay Learning Center*  
*Shawn Kenner, Sharon High School*  
*Colleen Lewis, Harvey Mudd College*

5:30 PM – 6:20 PM – Birds of a Feather Flock 1

*This is a chance for you to have a discussion about a topic that interests you.*

**Universal Access to Computing Education (room: Heritage 1, Sheraton)**

*Richard Ladner, University of Washington*  
*Brianna Blaser, University of Washington*  
*Andreas Stefik, University of Nevada Las Vegas*  
*Daniela Marghitu, Auburn University*

**Fostering Computational Creativity through Computing in the Arts: A Community of Educators (room: Heritage 3, Sheraton)**

*Susan Reiser, UNC Asheville*  
*Rebecca Bruce, UNC Asheville*  
*Jennifer Burg, Wake Forest University*  
*Bill Manaris, College of Charleston*

**Birds of Feather: Teaching with Alice (room: Heritage 4, Sheraton)**

*Donald Slater, Carnegie Mellon University*  
*Wanda Dann, Carnegie Mellon University*  
*Stephen Cooper, Stanford University*

**Defining Concepts, Practices, and Standards for K-12 CS (room: L11-12, Convention Center)**

*Pat Yongpradit, Code.org*

6:30 PM - 7:30 PM – Birds of a Feather Flock 2

**Current Initiatives and Future Directions of the Computer Science Teachers Association (CSTA)  
(room: Heritage 3, Sheraton)**

*David Reed, Creighton University/CSTA*

*Mark Nelson, Computer Science Teachers Association (CSTA)*

**Computer Science Summer Camps: Making Summer Programs Fun and Sustainable (room: Knoxville, Sheraton)**

*David Johnson, University of Utah, School of Computing*

**Leveraging CS Teachable Moments in the Maker Movement (room: Chattanooga, Sheraton)**

*Jennifer (Ginger) Alford, Trinity Valley School/Fort Worth Museum of Science and History*

*Erik Brunvand, University of Utah*

7:30 PM - 9:30 PM - Reception (room: Ballroom A)

**FRIDAY**

8:30 AM - 10:00 AM

Plenary Session - SIGCSE Award for Outstanding Contribution to Computer Science Education - Jan Cuny - National Science Foundation

10:00 AM - 10:45 AM - Break, Exhibits & Demos

**Demos (room: Exhibit Hall)**

CodeSnaps: Block-Based Robotic Programming for the Low-Budget Classroom

*Jennifer Sabourin, SAS Institute, Inc*

*Lucy Kosturko, SAS Institute, Inc*

*Scott McQuiggan, SAS Institute, Inc*

10:45 AM - 12:00 PM - Recommended Sessions

**Papers: Artistic Approaches (room: L13-L14)**

10:45 AM The MoveLab: Developing Congruence Between Students' Self-Concepts and Computing

*Kayla DesPortes, Georgia Institute of Technology*

*Monet Spells, Georgia Institute of Technology*

*Betsy DiSalvo, Georgia Institute of Technology*

11:10 AM Creative Computation in High School

*Dianna Xu, Bryn Mawr College*

*Aaron Cadle, Fort Worth Country Day School*

*Darby Thompson, Sidwell Friends School*

*Ursula Wolz, RiverSound Solutions*

*Ira Greenberg, Southern Methodist University*

*Deepak Kumar, Bryn Mawr College*

11:35 AM Computational Art - Introducing High School Students to Computing via Art

*Zoe Wood, California Polytechnic State University*

*Paul Muhl, Santa Barbara High School*

*Katelyn Hicks, California Polytechnic State University*

**Papers: High School Diversity (room: L2-L3)**

10:45 AM Towards More Gender Diversity in CS through an Artificial Intelligence Summer Program for High School Girls

*Marie Vachovsky, Stanford University*

*Grace Wu, Stanford University*

*Sorathan Chaturapruek, Stanford University*

*Olga Russakovsky, Stanford University*

*Richard Sommer, Stanford University*

*Li Fei-Fei, Stanford University*

11:10 AM Investigating the Role of Being a Mentor as a Way of Increasing Interest in Computer Science

*Jody Clarke-Midura, Utah State University*

*Vicki Allan, Utah State University*

*Kevin Close, Utah State University*

11:35 AM Sisters Rise Up 4 CS: Helping Female Students Pass the Advanced Placement Computer Science A Exam

*Barbara Ericson, Georgia Institute of Technology*

*Miranda Parker, Georgia Institute of Technology*

*Shelly Engelman, SageFox Consulting Group*

**Panel (room: Steamboat)**

Why Don't Some CS0 Students Succeed? How Important Are Background, Experience, Culture, Aptitude, Habits and Attitude?

*Daniel Garcia, University of California, Berkeley*

*Stuart Reges, University of Washington*

*Colleen Lewis, Harvey Mudd College*

*Nathan Ensmenger, Indiana University*

12:00 PM - 1:45 PM - LUNCH: on your own

1:45 PM - 3:00 PM - Recommended Sessions

**Papers: Problem Solving (room: L11-L12)**

1:45 PM Online CS1: Who Enrolls, Why, and How Do They Do?

*Diane Horton, University of Toronto*

*Jennifer Campbell, University of Toronto*

*Michelle Craig, University of Toronto*

2:10 PM The Influence of Problem Solving Abilities on Students' Performance on Different Assessment Tasks in CS1.

*Alex Lishinski, Michigan State University*

*Aman Yadav, Michigan State University*

*Richard Enbody, Michigan State University*

*Jonathon Good, Michigan State University*

2:35 PM A Course on Programming and Problem Solving

*Swapneel Sheth, University of Pennsylvania*

*Christian Murphy, University of Pennsylvania*

*Kenneth Ross, Columbia University*

*Dennis Shasha, New York University*

**Papers: CS Ed Research 2 (room: L5-L6)**

1:45 PM A Multi-institutional Study of Peer Instruction in Introductory Computing

*Leo Porter, University of California, San Diego*  
*Dennis Bouvier, Southern Illinois Univ.~Edwardsville*  
*Quentin Cutts, University of Glasgow*  
*Scott Grissom, Grand Valley State University*  
*Cynthia Lee, Stanford University*  
*Robert McCartney, University of Connecticut*  
*Daniel Zingaro, University of Toronto, Mississauga*  
*Beth Simon, University of California, San Diego*

2:10 PM Development of a Concept Inventory for Computer Science Introductory Programming

*Ricardo Caceffo, UNICAMP*  
*Steven Wolfman, University of British Columbia*  
*Kellogg Booth, University of British Columbia*  
*Rodolfo Azevedo, UNICAMP*

2:35 PM A data-driven analysis of informatively hard concepts in introductory programming

*Rudolf Wiegand, University of Central Florida*  
*Anthony Bucci, Independent Contractor*  
*Amruth Kumar, Ramapo College of New Jersey*  
*Jennifer Albert, The Citidel*  
*Alessio Gaspar, University of South Florida*

**Papers: K-8 Diversity (room: L2-L3)**

1:45 PM How Early Does the CS Gender Gap Emerge? A Study of Collaborative Problem Solving in 5th Grade  
Computer Science

*Jennifer Tsan, North Carolina State University*  
*Kristy Boyer, University of Florida*  
*Collin Lynch, North Carolina State University*

2:10 PM Differentiating for Diversity: Using Universal Design for Learning in Computer Science Education

*Alexandria Hansen, University of California, Santa Barbara*  
*Eric Hansen, Hope Elementary School, Santa Barbara*  
*Hilary Dwyer, University of California, Santa Barbara*  
*Danielle Harlow, University of California, Santa Barbara*  
*Diana Franklin, University of Chicago*

2:35 PM Empowering All Students: Closing the CS Confidence Gap with an In-School Intervention for Middle  
School Students

*Philip Buffum, North Carolina State University*  
*Megan Frankosky, North Carolina State University*  
*Kristy Boyer, University of Florida*  
*Eric Wiebe, North Carolina State University*  
*Bradford Mott, North Carolina State University*  
*James Lester, North Carolina State University*

**Special Session (room: Cotton Row)**

AP Computer Science and Service Learning Learning with We.org

*Lien Diaz, College Board*  
*Sandy Czajka, Riverside Brookfield High School*  
*Crystal Furman, College Board*

**Panel (room: Steamboat)**

CS10K Teachers by 2017? Try CS1K+ students NOW! Coping with the Largest CS1 Courses in History

*Daniel Garcia, UC Berkeley*  
*Jennifer Campbell, University of Toronto*  
*John DeNero, UC Berkeley*

*Mary Lou Dorf, University of Michigan*  
*Stuart Reges, University of Washington*

3:00 PM - 3:45 PM - Break, Exhibits & Demos

3:45 PM - 5:00 PM - Recommended Sessions

**Papers: International Perspectives (room: L13-L14)**

3:45 PM The Performance of Female Computer Science Students across Three Caribbean Islands

*Daniel Fokum, The University of the West Indies, Mona*

*Daniel Coore, The University of the West Indies, Mona*

*Yewande Lewis-Fokum, The University of the West Indies, Mona*

4:10 PM Piloting Computer Science Education Week in Mexico

*Nora Escherle, Ph FHNW*

*Silvia I. Ramirez-Ramirez, Department of Computer Science, Tecnológico de Monterrey*

*Ashok Basawapatna, Dept. Mathematics, Computer & Information Science, SUNY, Old Westbury*

*Dorit Assaf, School of Education, FHNW*

*Alexander Repenning, School of Education, FHNW*

*Carmine Maiello, School of Education, FHNW*

*Yasko Endo, University of Colorado, Boulder*

*Juan Nolasco-Flores, Department of Computer Science, Tecnológico de Monterrey*

4:35 PM Alice in the Middle East: An experience report from the formative phase

*Saqib Razak, Carnegie Mellon University*

*Huda Gedawy, Carnegie Mellon University*

*Wanda Dann, Carnegie Mellon University*

*Donald Slater, Carnegie Mellon University*

**Papers: CS Principles (room: L2-L3)**

3:45 PM An Experience Report Assessing A Professional Development MOOC For CS Principles

*Jeff Gray, The University of Alabama*

*Jonathan Corley, The University of Alabama*

*Brian Eddy, University of West Florida*

4:10 PM Two Teachers, Two Perspectives on CS Principles

*Jean Griffin, Temple University*

*Tammy Pirmann, Gwynedd Mercy University*

*Brent Gray, Carver Engineering and Science High School*

4:35 PM Lessons Learned from "BJC" CS Principles Professional Development

*Thomas W. Price, NC State University*

*Veronica Catete, NC State University*

*Jennifer Albert, The Citadel*

*Tiffany Barnes, NC State University*

*Daniel D. Garcia, UC Berkeley*

6:00 PM - 7:00 PM - NCWIT Reception (room: Heritage Ballroom, Sheraton)

*Visit with the folks who run the Aspirations Award for High School (and now College) girls.*

7:00 PM - 10:00 PM – Workshops

*These are optional workshops that you can pay to attend.*



**Workshop #302:** Introducing Secure Coding in CS0, CS1, and CS2 (room: L2-L3)

*Blair Taylor, Towson University*

*Siddharth Kaza, Towson University*

**Workshop #303:** Building on Blocks: Getting Started With Frames in Greenfoot 3 (room: L5-L6)

*Amjad Altadmri, University of Kent*

*Neil Brown, University of Kent*

**Workshop #304:** Rubricking Like a Boss: Writing and Using Rubrics for Faster, Fairer Grading of Student Programs (room: L8)

*Don Blaheta, Longwood University*

*Adrienne Decker, Rochester Institute of Technology*

**Workshop #306:** Learn CS1/2 by Playing and Building Commercial Grade Casual Games: No Background Required (room: L10)

*Kelvin Sung, University of Washington Bothell*

*Rob Nash, University of Washington Bothell*

*Jason Pace, University of Washington Bothell*

**Workshop #308:** MUzECS: Block-based Arduino Programming for Exploring Computer Science (room: L13-L14)

*Dennis Brylow, Marquette University*

**Workshop #309:** How to Plan and Run Summer Computing Camps - Logistics (room: River Bluff)

*Barbara Ericson, Georgia Institute of Technology*

*Kristine Nagel, Georgia Gwinnett College*

*Nannette Napier, Georgia Gwinnett College*

*Krishnendu Roy, Valdosta State University*

**Workshop #310:** K-12 Teacher Support for Computer Science Principles: An Introduction to the UTeach Course, Thriving in Our Digital World: AP (room: Sultana)

*Jeff Mickel, The UTeach Institute, The University of Texas at Austin*

*Alicia Beth, The UTeach Institute, The University of Texas at Austin*

**Workshop #312:** AP CS Principles and The Beauty and Joy of Computing Curriculum (room: Cotton Row)

*Daniel Garcia, UC Berkeley*

*Tiffany Barnes, NC State*

*Michael Ball, UC Berkeley*

*Emil Biga, Millard North High School*

*Josh Paley, Gunn High School*

*Marnie Hill, J. H. Rose High School*

*Nathan Mattix, Piedmont High School*

*Parisa Safa, Urban School of San Francisco*

*Sean Morris, Albany High School*

*Shawn Kenner, Sharon High School*

## **SATURDAY**

8:45 AM - 10:00 AM - Recommended Sessions

**Papers: Computing in Middle School (room: L2-L3)**

8:45 AM MyCS at 5: Assessing a Middle-years CS Curriculum

*Brenda Castro, Harvey Mudd College*

*Terrence Diaz, Harvey Mudd College*

*Marissa Gee, Harvey Mudd College*

*Rebekah Justice, Harvey Mudd College*

*David Kwan, Harvey Mudd College*

*Preethi Seshadri, Harvey Mudd College*

*Zachary Dodds, Harvey Mudd College*

9:10 AM Factors Influencing Computer Science Learning in Middle School

*Shuchi Grover, Stanford University/SRI International*

*Roy Pea, Stanford University*

*Stephen Cooper, Stanford University*

9:35 AM "What Is A Computer?" What do Secondary School Students Think?

*Shuchi Grover, SRI International*

*Daisy Rutstein, SRI International*

*Eric Snow, SRI International*

### **Special Session (room: Steamboat)**

#### **Nifty Assignments**

*Nick Parlante, Stanford University*

*Julie Zelenski, Stanford University*

*Kevin Wayne, Princeton University*

*John DeNero, University of California, Berkeley*

*Baker Franke, Code.org*

*Arvind Bhusnurmah, University of Pennsylvania*

*Karen Her, University of Pennsylvania*

*Kristen Gee, University of Pennsylvania*

*Eric Manley, Drake University*

*Timothy Urness, Drake University*

*Marvin Zhang, University of California, Berkeley*

10:00 AM - 10:45 AM - Break, Exhibits & Demos

10:45 AM - 12:00 PM - Recommended Sessions

### **Papers: Alternative Learning Experiences (room: L13-L14)**

10:45 AM A Programming Contest Strategy Guide

*Aaron Bloomfield, University of Virginia*

*Borja Sotomayor, University of Chicago*

11:10 AM Teaching "Lawfulness" With Kodu

*David Touretzky, Carnegie Mellon University*

*Christina Gardner-McCune, University of Florida*

*Ashish Aggarwal, University of Florida*

### **Papers: CS Ed Research 3 (room: L5-L6)**

10:45 AM Retention of Flow: Evaluating a Computer Science Education Week Activity

*Alexander Repenning, School of Education FHNW*

*Ashok Basawapatna, SUNY Old Westbury*

*Dorit Assaf, School of Education FHNW*

*Carmine Maiello, School of Education FHNW*

*Nora Escherle, School of Education FHNW*

### **Papers: K-12 Teaching (room: L2-L3)**

10:45 AM CS Teacher Experiences with Educational Technology, Problem-Based Learning, and a CS Principles Curriculum

*George Veletsianos, Royal Roads University*

*Bradley Beth, The University of Texas at Austin*

*Calvin Lin, The University of Texas at Austin*

11:10 AM Contextualized Teaching in the Lower Secondary Education \* Long-term Evaluation of a CS Course from Grade 6 to 10

*Arno Pasternak, TU Dortmund*

11:35 AM Landscape of K-12 Computer Science Education in the U.S.: Perceptions, Access, and Barriers

*Jennifer Wang, Google, Inc.*

*Hai Hong, Google, Inc.*

*Jason Ravitz, Google, Inc.*

*Sepehr Moghadam, Google, Inc.*

**Special Session (room: Steamboat)**

Advanced Placement Computer Science Principles (APCSP): A Report from Teachers

*Owen Astrachan, Duke University*

*R. Brook Osborne, Code.org*

12:00 PM - 2:00 PM – Luncheon

*This is the official closing session of SIGCSE. There are optional Workshops in the afternoon you can pay to attend.*

3:00 PM - 6:00 PM – Workshops

*These are optional workshops that you can pay to attend.*

**Workshop #401:** JavaScript Applications for CS0/CS1: Getting Hands-on with Code.org's App Lab (room: L1)

*Baker Franke, Code.org*

*Sarah Filman, Code.org*

*Brook Osborne, Code.org*

**Workshop #403:** Teaching Robotics Using ROS (room: L5-L6)

*Nathan Sprague, James Madison University*

*Ralph Grove, James Madison University*

**Workshop #405:** Advanced Placement Computer Science Principles Performance Task: Create – Applications from Ideas, Approaches to Programming Collaboratively. It's a Hackathon Workshop! (room: L9)

*Lien Diaz, College Board*

*Richard Kick, Newbury Park High School*

*Andrew Kuemmel, Madison West High School*

**Workshop #406:** Scaling up for CS10K: Teaching and Supporting New Computer Science High School Teachers (room: L10)

*Tiffany Barnes, North Carolina State University*

*Jamie Payton, University of North Carolina at Charlotte*

*Daniel Garcia, University of California and Berkeley*

**Workshop #407:** App Development for All! (room: L11-L12)

*David Hayes, Lane Tech College Prep High School (Chicago Public Schools)*

*Dale Reed, University of Illinois at Chicago*

**Workshop #408:** Mixing Code and 3D Printers with Madeup (room: L13-L14)

*Chris Johnson, University of Wisconsin, Eau Claire*

*Heather Amthauer, University of Wisconsin, Eau Claire*

*Ryan Hardt, University of Wisconsin, Eau Claire*

*Peter Bui, University of Notre Dame*

**Workshop #412:** Transition to Java Using Alice 3 (room: Cotton Row)

*Donald Slater, Alice Project, Carnegie Mellon University*

*Wanda Dann, Alice Project, Carnegie Mellon University*