

Highlights and Recommendations for Community College Educators
at [SIGCSE 2018](#) in Baltimore, MD
Wednesday, February 21 – Saturday, February 24

The below highlights and recommendations are based on the [Conference Program](#).

sigcse2018.sigcse.org

Stop by the ACM CCECC Booth

Exhibit Hall Booth #117/119: Come to the ACM Booth in the Exhibit Hall to talk with CCECC members!

Don't miss these great ACM CCECC events, sponsored by **Intel**, the **National CyberWatch Center**, and the **C5** project!

ACM CCECC Community College Dessert Reception

Friday, February 23, 7:00 pm to 8:00 pm at the Sharp Street Terrace. Enjoy dessert refreshments, win prizes, and most importantly, network with others interested in computing education at community colleges.

ACM CCECC Community College Breakfast

Saturday, February 24, 7:00 am to 8:15 am in room 327. Enjoy a tasty, free breakfast, enter to win a Kindle Paperwhite, and most importantly, network with others interested in computing education at community colleges.

ACM CCECC Recommendations for Community College Educators

The ACM Committee for Computing Education in Community Colleges (CCECC) is pleased to recommend the following day-by-day Symposium Activities for two-year college educators.

Yellow highlight indicates CCECC presentation or event.

Wednesday, February 21, 2018

- Pre-Symposium event: Jumpstart Teaching Cybersecurity: C5 Instructional Modules Secure Scripting and Cybersecurity and Society, 8am-5pm, 301
- Strategies for Integrating the Updated ACM Code of Ethics into the Computing Curriculum, 1-5pm, 319
- Workshop 103: Introducing Secure Coding in Undergraduate (CS0, CS1, and CS2) and High School (AP Computer Science A) Programming Courses, 7-10pm

Thursday, February 22, 2018

- Keynote: The Evolution Before the Revolution, by Brenda Wilkerson, 8:15-9:45am, Ballroom I-II
- Session: Working Collectively to Broaden Participation of Hispanics in Computing, 10:45am-12pm, 322
- Paper Session: Introductory Courses, 10:45am-12pm, 317
 - The Effect of Reporting Known Issues on Students' Work
 - Quantifying the Benefits of Prior Programming Experience in an Introductory Computer Science Course
 - Python versus C++: An analysis of student struggle on small coding exercises in introductory programming courses
- Session: Why Diversity is Important to the Health of the Technology Industry, and What We Can Do to Ensure its Success, 10:45am-12pm, 301
- **First Timer's Lunch**, Ballroom III-IV
- Paper Session: Diverse Topics in CS Ed, 1:45-3pm, 319
 - Understanding Professional Identities and Goals of Computer Science Undergraduate Students
 - Who Teaches Accessibility? A Survey of U.S. Computing Faculty
 - A Survey of Instructors' Experiences Supporting Student Learning using Humanitarian Free and Open Source Software Projects
- Special Session: Watch them Teach, 1:45-3pm, 315
- Supporter Session: GitHub: Real-world tools, engaged students, 1:45-3pm, 303
- Paper Session: Pedagogy #3
 - Unencapsulated Collection - A Teachable Design Smell
 - Instructional Design + Knowledge Components: A Systematic Method for Refining Instruction
 - An Explicit Strategy to Scaffold Novice Program Tracing
- Paper Session: Databases, 3:45-5pm, 314
 - Teaching NoSQL Databases to Undergraduate Students - A Novel Approach
 - A Visual Introduction to Conceptual Database Design for All
 - Improving Classroom Preparedness Using Guided Practice
- Special Session: Introductory CS Courses Using Culturally Responsive Teaching, 3:45-5pm, 309
- BOF Flock #1: Bringing Up Cybersecurity Degree Programs, 319
- BOF Flock #1: Peer Instruction: Tips, Techniques and Resources, 321
- BOF Flock #1: The Authentic Inclusion and Role of Community Colleges in National Efforts to Broaden Participation in Computing, 317
- BOF Flock #1: Using Subgoals to Improve Student Performance in CS1, 322
- BOF Flock #2: Integrating Cybersecurity Exercises into your Courses, 319
- BOF Flock #2: GitHub, Tutors, Relatives, and Friends: The Wide Web of Plagiarism, 316
- BOF Flock #2: Using Gamification Strategies to Motivate and Engage Students in Computer Science Courses, 309
- **SIGCSE Evening Reception**, 7:30-9:30pm, Ballroom III-IV

Friday, February 23, 2018

- Keynote: SIGCSE Award for Outstanding Contributions to Computer Science Education, What's the big idea with CS Education in K-12? by Tim Bell, 8:25-9:45am, Ballroom I-II
- Poster Session #1, 10am-12pm, Exhibit Hall
- Paper Session: Curriculum Issues #1, 10:45am-12pm, 318
 - Understanding the New ABET Computer Science Criteria
 - **Computer Science Curricular Guidance for Associate-Degree Transfer Programs**
 - A Systematic Review of the Use of Bloom's Taxonomy in Computer Science Education
- Paper Session: CS1 #1, 10:45am-12pm, 317
 - Flipped Class Effects on Retention after CS1
 - Does Native Language Play a Role in Learning a Programming Language?
 - Tracing vs. Writing Code: Beyond the Learning Hierarchy
- Special Session: How to volunteer with SIGCSE, 1-1:45pm, 323
- Paper Session: CS1 #2, 1:45-3pm, 317
 - BlueBook: A Computerized Replacement for Paper Tests in Computer Science
 - Using a computer-based testing facility to improve student learning in a programming languages and compilers course
 - Including Coding Questions in Video Quizzes for a Flipped CS1
- Paper Session: Errors, 1:45-3pm, 319
 - Fix the First, Ignore the Rest: Dealing with Multiple Compiler Error Messages
 - The Effects of Enhanced Compiler Error Messages on a Syntax Error Debugging Test
 - Novice programmers' reasoning about reversing conditional statements
- Poster Session #2, 3pm-5pm, Exhibit Hall
- Paper Session: Diversity #3, 3:45-5pm, 316
 - Upward Mobility for Underrepresented Students: A Model for a Cohort-Based Bachelor's Degree in Computer Science [BEST PAPER NEW CURRICULA, PROGRAMS, DEGREES AND POSITION PAPERS]
 - Recommendations of a Diversity, Equity, and Inclusion Working Group based on Student Data from a National CS Education Program [2nd BEST PAPER EXPERIENCE REPORTS AND TOOLS]
 - Teaching Inclusive Thinking to Undergraduate Students in Computing Programs
- Paper Session: Pair Programming, 3:45-5pm, 321
 - A Study of Pair Programming Enjoyment and Attendance using Study Motivation and Strategy Metrics
 - The Importance of Producing Shared Code through Pair Programming
 - Thematic Analysis of Students' Reflections on Pair Programming in CS1
- Paper Session: Professional Development, 3:45-5pm, 318
 - DIVAS: Outreach to the Natural Sciences through Image Processing [3rd BEST PAPER NEW CURRICULA, PROGRAMS, DEGREES AND POSITION PAPERS]
 - Diversity-focused Online Professional Development for Community college Computing Faculty: participant motivations and perceptions
 - Broadening Participation in Computing via Professional Development for Community College CS/IT Faculty

- Special Session: The Authentic Inclusion and Role of Community Colleges in National Efforts to Broaden Participation in Computing, 3:45-5pm, 308
- **ACM CCECC Community College Reception sponsored by Intel, the National CyberWatch Center, and the C5 project, 7pm-8pm, Sharp Terrace**
- Workshop 304: Code Crafters Curriculum: A Textile Crafts Approach To Computer Science, 7-10pm, 314
- Workshop #307: Guiding Students to Discover CS Concepts & Develop Process Skills Using POGIL, 7-10pm, 318

Saturday, February 24, 2018

- **ACM CCECC Community College Breakfast sponsored by Intel, the National CyberWatch Center, and the C5 project, 7am-8:15am, 327-328**
- Paper Session: Active Learning #1, 8:45-10am, 317
 - An Active and Collaborative Approach to Teaching Discrete Structures
 - Active Learning in a Discrete Mathematics Class
 - Active Learning through Game Play in a Data Structures Course
- Special Session: Joint Task Force on Cybersecurity Education, 8:45-10am, 310
- Special Session: Nifty Assignments, 8:45-10am, 308
- Poster Session #3, 10am-12pm, Exhibit Hall
- Paper Session: Interdisciplinary Perspectives, 10:45am-12pm
 - Using Music to Engage Students in an Introductory Undergraduate Programming Course for Non-Majors
 - Sound Design for Video Games: An Interdisciplinary Course for Computer Science and Art Students
 - Authenticity and Personal Creativity: How EarSketch Affects Student Persistence
- Paper Session: Recursion, 10:45am-12pm, 314
 - Recursion or Iteration: Does it Matter What Students Choose?
 - GUI-Based vs. Text-Based Assignments in CS1
 - Evaluating the Tracing of Recursion in the Substitution Notional Machine
- Supporter Session: ABET: Computing and Computer Science Accreditation – What You Should Know, 10:45am-12pm, 301
- **SIGCSE Luncheon and Closing Keynote: CSforALL: Nodes and Networks for National Impact** by Ruthe Farmer, 12-1:45pm, Ballroom I-II
- Workshop 402: CReST-Security Knitting Kit: Ready to Use Teaching Resources to Integrate Security Concepts into CS Courses, 3-6pm, 302
- Workshop 411: Beyond the Flipped Classroom: Implementing Multiple, Simultaneous Pedagogical Styles Using Scrumage, 3-6pm, 323