Highlights and Recommendations for Community College Educators
at SIGCSE 2019 in Minneapolis, MN
Wednesday, February 27 – Saturday, March 2

The below highlights and recommendations are based on the Conference Program.

sigcse2019.sigcse.org

Stop by the ACM CCECC Booth
Exhibit Hall Booth #525: Come talk with CCECC members!

Don’t miss these great Community College events hosted by the ACM CCECC, sponsored by Oracle Academy and ABET!

ACM CCECC Community College Dessert Reception
Friday, March 1, 7:00 pm to 8:00 pm at the Hyatt, in the Regency Room. Enjoy dessert refreshments, win prizes, and most importantly, network with others interested in computing education at community colleges.

ACM CCECC Community College Breakfast
Saturday, March 2, 7:00 am to 8:15 am at the Hyatt, in the Regency Room. Enjoy a free hot breakfast, 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 27, 2019

- 8:30am-5pm :: POSSE Roundup :: Hyatt: Greenway F (2nd floor)
- 8:30am-5pm :: Integrating Cloud Computing into the Computer Science Curriculum: Beginner Level :: Hyatt: Lakeshore A (1st floor)
- 1:30pm-5pm :: FREE Cybersecurity Curriculum :: Hyatt: Greenway I (2nd floor)
- 1:30pm-5pm :: What!? You want me to include computing ethics, too!!?!! Using the ACM Code of Ethics in technical computing topics :: Hyatt: Greenway H (2nd floor)

Thursday, February 28, 2019

- 8:15-9:45am :: Welcome & Keynote by Dr. Freeman A. Hrabowski, III :: Nicollet Grand Ballroom
- 10am-10:45am :: Break, Exhibits, & Demos :: Hyatt: Exhibit Hall
- 10:45am-12pm :: Enrollment & Retention :: Hyatt: Greenway B/C (2nd floor)
  - Student Performance in Computing Courses in the face of Growing Enrollments
  - Understanding Who Enrolls in Introductory Computing Courses at Community Colleges
  - Can Sending First and Second Year Computing Students to Technical Conferences Help Retention?: An Analysis of National Survey Data
- 10:45am-12pm :: Practice and Problems :: Millennium: Grand North (1st floor)
  - Exploring the Applicability of Simple Syntax Writing Practice for Learning Programming
  - Stochastic Tree-Based Generation of Program-Tracing Practice Questions
  - Exploring the Impact of Worked Examples in a Novice Programming Environment
- 10:45am-12pm :: SIGCSE@50: Hot Topics in the SIGCSE Community :: Hyatt: Great Lakes A1 & A2 (2nd floor)
- 12pm-1:45pm :: First Timer's Lunch & Keynote :: Hyatt: Nicollet Grand Ballroom
- 1:45pm-3pm :: Active Learning :: Millennium: Grand North (1st floor)
  - On the Effects of Active Learning Environments in Computing Education
  - Supporting Guided Inquiry with Cooperative Learning in Computer Organization
  - POGIL in Computer Science: Faculty Motivation and Challenges
- 1:45pm-3pm :: Shaping Curricular Guidelines for Associate-Degree Cybersecurity Programs :: Hyatt: Northstar B (2nd floor)
- 1:45pm-3pm :: SIGCSE@50: CS 1 :: Hyatt: Great Lakes A1 & A2 (2nd floor)
  - 50 Years of CS1 at SIGCSE: A Review of the Evolution of Introductory Programming Education Research :: Discussion
- 3pm-3:45pm :: Break, Exhibits, & Demos :: Hyatt: Exhibit Hall
- 3:45pm-5pm :: Story & Video :: Hyatt: Greenway J (2nd floor)
  - Podcast Highlights: Targeted Educational Videos From Repurposed Lecture-capture Footage
  - Student-Generated Videos for Promoting Better Attitudes towards Cryptography
  - Story Programming: Explaining Computer Science Before Coding
3:45pm-5pm :: **Games & Gamification** :: Hyatt: Greenway B/C (2nd floor)
  - OneUp: Engaging Students in a Gamified Data Structures Course
  - Program Wars: A Card Game for Learning Programming and Cybersecurity Concepts
  - Analyzing Gamification Impact on a Mastery Learning Introductory Programming Course

3:45pm-5pm :: **Lightening Talks** :: Hyatt: Lake Bemidji (4th floor)

5:30pm-6:20pm :: **BOF Flock A**
  - Towards a More Inclusive Tech Culture: Promoting Professionalism in CS Classrooms and Labs :: Hyatt: Greenway A (2nd floor)
  - Discussion of Integrating Hands-on Cybersecurity Exercises into the Curriculum in 2019 :: Hyatt: Greenway H/I (2nd floor)
  - A Town Meeting: SIGCSE Committee on Expanding the Women-in-Computing Community :: Hyatt: Regency (2nd floor)

6:30pm-7:20pm :: **BOF Flock B**
  - Academic Cybersecurity Disciplinary Foundations and Accreditation :: Hyatt: Greenway A
  - Access to Computing Education for Students with Disabilities :: Hyatt: Greenway F/G
  - Bringing Reflection into Computer Science Education :: Hyatt: Northstar B (2nd floor)
  - Broadening Participation in Computing: A Call to Action for Universities and Community Colleges :: Hyatt: Lake Minnetonka (4th floor)

7:30pm-9:30pm :: **SIGCSE Reception** :: Hyatt: Nicollet Grand Ballroom

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**Friday, March 1, 2019**

8:15-9:45am :: **Welcome & Keynote by Dr. Mark Guzdial** :: Nicollet Grand Ballroom

10am-10:45am :: **Break, Exhibits, & Demos** :: Hyatt: Exhibit Hall

10am-12pm :: **Poster Session #1** :: Hyatt: Exhibit Hall

10:45am-12pm :: **Online** :: Hyatt: Greenway A
  - Understanding Learning Curves and Trajectories in CSS Layout
  - Captioning Online Course Videos: An Investigation into Knowledge Retention and Student Perception
  - Facing Backwards While Stumbling Forwards: The Future of Teaching Web Development

10:45am-12pm :: **Computing Curricula 2020: Introduction and Community Engagement** :: Hyatt: Northstar B (2nd floor)

1pm-1:45pm **Lunch on Your Own**

1:45pm-3pm :: **Professional Tools & Practice** :: Hyatt: Greenway A
  - Interactive Peer-Led Code Reviews In CS2 Curricula
  - Static Analyses in Python Programming Courses
  - Using GitHub in the Classroom Predicts Student Learning Outcomes and Classroom Experiences: Findings from a Survey of Students and Teachers

1:45pm-3pm :: **Four Models for Including Community Colleges in Broadening Participation: A Call to Action** :: Hyatt Greenway H/I

3pm-3:45pm :: **Break, Exhibits, & Demos** :: Hyatt: Exhibit Hall

3pm-5pm :: **Poster Session #2** :: Hyatt: Exhibit Hall

3:45pm-5pm :: **Attitudinal** :: Hyatt: Greenway B/C
Assessing the Attitudes Towards Computing Scale: A Survey Validation Study
Are You Game?: Assessing Students' Perception of Learning, Instructors' Perspective, and Learning Attitude
Factors That Influence Students' Motivation and Perception of Studying Computer Science

3:45pm-5pm :: CS1 :: Millennium: Grand Central (1st floor)
- Up or Down? An Insight into Programmer's Acquisition of Iteration Skills
- Can You Teach Me To Machine Learn?: An Exploration of Pedagogical Content Knowledge for Teaching Machine Learning to Non-Majors
- Self-paced Mastery Learning CS1

3:45pm-5pm :: Community College Transfer Pathways :: Hyatt: Northstar B (2nd floor)
6pm-7pm :: NCWIT Reception :: Hyatt: Northstar A&B (2nd floor)
7pm-8pm :: ACM CCECC Community College Reception sponsored by Oracle Academy and ABET :: Hyatt: Regency (2nd floor)

Saturday, March 2, 2019

7am-8:15am :: ACM CCECC Community College Breakfast sponsored by Oracle Academy and ABET :: Hyatt: Regency (2nd floor)
8:15-9:45am :: Welcome & Keynote by Dr. Blair Taylor :: Nicollet Grand Ballroom
9:45am-10:35am :: Expectations :: Hyatt: Greenway B/C (2nd floor)
- Collaboration Versus Cheating: Reducing Code Plagiarism in an Online MS Computer Science Program
- What Do CS1 Syllabi Reveal About Our Expectations of Introductory Programming Students?
9:45am-10:35am :: Pair Programming :: Millennium: Grand South (1st floor)
- Hybrid Pair Programming - A Promising Alternative to Standard Pair Programming
- In Their Own Words: Gender Differences in Student Perceptions of Pair Programming
9:45am-10:35am :: Lightening Talks :: Hyatt: Lake Bemidji (4th floor)
10:35am-11:15am :: Break, Exhibits, & Demos :: Hyatt: Exhibit Hall
10:35am-12:30pm :: Poster Session #3 :: Hyatt: Exhibit Hall
11:15am-12:30pm :: Mentorship :: Hyatt: Greenway J (2nd floor)
- Perfect Match: Facilitating Study Partner Matching
- A Structured Mentorship Model for Computer Science University Students in Kenya
- A Flexible Curriculum for Promoting Inclusion through Peer Mentorship
11:15am-12:30pm :: Engagement :: Hyatt: Greenway B/C (2nd floor)
- Student Engagement is Key to Broadening Participation in CS
- Evaluating the Impact of Combination of Engagement Strategies in SEP-CyLE on Improve Student Learning of Programming Concepts
- Non-Programming Activities for Engagement with Foundational Concepts in Introductory Programming
11:15am-12:30pm :: Nifty Assignments :: Hyatt: Northstar A (2nd floor)
12:30pm-2:30pm :: Lunch, Closing Ceremonies :: Hyatt: Nicollet Grand Ballroom