

ANNUAL REPORT
of the
ACM COMMITTEE for COMPUTING EDUCATION in COMMUNITY COLLEGES
for the period FY17: July 1, 2016 - June 30, 2017
<http://ccecc.acm.org/>

Dr. Cara Tang, CCECC chair, provides the following annual report on the activities of the ACM Committee for Computing Education in Community Colleges (CCECC). Previous annual reports of the CCECC are archived online at <http://ccecc.acm.org/about/reports>.

CCECC GLOBAL MISSION: <http://ccecc.acm.org/about>

The *ACM CCECC* serves and supports community and technical college educators in all aspects of computing education.

CCECC PURPOSE: <http://ccecc.acm.org/about>

The *ACM Committee for Computing Education in Community Colleges (CCECC)* is a standing committee of the ACM Education Board concerned with computing education at associate-degree granting colleges in the United States and similar post-secondary institutions throughout the world. The *Committee* engages in curriculum and assessment development, community building, as well as advises on public policy and advocacy in service to this sector of higher education.

CCECC BRIEF HISTORY: <http://ccecc.acm.org/history>

CCECC CHARTER: <http://ccecc.acm.org/about/charter>

CCECC MEMBERSHIP: <http://ccecc.acm.org/about/members>

Members

- Cara Tang, PhD, CCECC Chair; Department Chair and Faculty, Portland Community College, OR
- Cindy Tucker, CCECC Vice-Chair; Professor, Bluegrass Community and Technical College, KY
- Elizabeth K. Hawthorne, PhD, CCECC Past Chair; Senior Professor, Union County College, NJ
- Christian Servin, PhD, CCECC member; Professor, El Paso Community College, TX
- **New member as of July 1, 2017:** Markus Geissler, PhD, CCECC member; Professor, Cosumnes River College, CA

Sadly, one of our members, Teresa Moore, passed away last September.

Emeriti Members

- Mr. Robert Campbell (former chair)
- Dr. Karl Klee (former chair)
- Dr. John Impagliazzo (founder)
- Dr. Joyce Currie Little (founder)
- Dr. Dick Austing (founder)

The CCECC achieved the following milestones in FY17 (July 1, 2016 – June 30, 2017):

- After two and a half years, published *Computer Science Curricular Guidance for Associate-Degree Transfer Programs with Infused Cybersecurity* (CSTransfer2017) in June 2017
 - Available at ccecc.acm.org/CSTransfer2017
 - Completed the revision of the 2009 Associate-degree Curricular Guidance in Computer Science
 - Based on the ACM CS2013 guidelines, survey input, two rounds of feedback on public drafts, and has cybersecurity infused. A task group of 20 community college educators participated in and led the effort.
 - A panel session at Community College Cybersecurity Summit (3CS), June 2017, introduced the final guidance to the community for the first time.
- At ITiCSE 2016,
 - Moderated a panel on *Global Perspectives on the Role of Junior Colleges in Computing Education*
 - Presented a poster, gathering international input on the then-current draft of CSTransfer2017
- Formed an international advisory group, with initial members Margaret Hamilton, RMIT University, Melbourne, Australia; and Reyhan Ayfer, Bilkent University, Turkey
- At SIGITE 2016,
 - Hosted a community college reception for the second year in a row.
- At SIGCSE 2017,
 - Hosted an evening dessert reception for community college educators and friends for the second year in a row, sponsored by Intel, with a drawing for tech prizes;
 - Engaged with the community gaining input on, and spreading awareness of, the CSTransfer2017 guidelines through a pre-symposium event, BoF, and poster;
 - Staffed a booth in the exhibit hall to facilitate interactions with the community.
- Vitalized the CCECC's social media presence on Twitter and Facebook to expand outreach with a fresh look, current content, and ongoing activity.

- Utilized Facebook LIVE to broadcast CCECC presentations at SIGCSE and 3CS, making them available to a global audience.
- Recruited one new Committee member (joined July 1, 2017)
 - Markus Geissler, Cosumnes River College, CA
- Maintained the website (ccecc.acm.org) with updated committee publications and conference events.
- Maintained CCECC educator database with over 5,000 email contacts of two-year college computing educators
- Continued serving on the ACM Education Council and Education Board - www.acm.org/education/education-council-and-education-board
- Continued serving on the ACM Education Policy Committee – www.acm.org/education/education-policy-committee
- Continued serving on the ACM-W Council – women.acm.org
 - Shared booth space at SIGCSE 2017
- Continued to support increasing community college participation in ACM-W work.
 - Continued to use our educator database to generate lists of community college faculty located near ACM Women in Computing (WIC) celebrations, and provide customized lists to each U.S. WIC coordinator to facilitate personalized invitations to the events. In 2016-2017, lists were generated for 11 WICs across the U.S.
- Continued collaborating with CSTA – csta.acm.org
 - Shared booth space at SIGCSE 2017
- Continued serving on the Joint Task Force for Information Technology to develop undergraduate curricular guidelines – <http://it2017.acm.org>
- Continued serving on the ACM Joint Task Force for Cybersecurity Education to develop undergraduate curricular guidelines - <http://www.csec2017.org/>
- Engaged in a variety of advocacy and outreach efforts on behalf of computing education in the community college sector, including the following conferences: Community College Cybersecurity Summit (3CS) 2016 (July), ITicSE 2016 (July), SIGITE 2016 (September), SIGCSE 2017 (March), and Community College Cybersecurity Summit (3CS) 2017 (June).
- Ongoing communications with colleagues via the featured, quarterly Community College Corner column in *ACM Inroads* – columns available in the ACM Digital Library as well as from <http://ccecc.acm.org/literature/publications>.
- Ongoing dissemination and outreach activities, including periodic mailings and email messages to contacts in the CCECC educator database, website enhancements, articles, conference sessions, and exchanges and collaborations with colleagues.
- Ongoing support for the ACM Education Council and Education Board goals and objectives.

The CCECC plans to pursue the following activities in FY18 (July 1, 2017 – June 30, 2018):

- Disseminate the newly published CSTransfer2017 guidelines to the community
- Collect program examples for CSTransfer2017, to appear on the CCECC web site at ccecc.acm.org/guidance/computer-science-2017/correlations
- Begin new associate-degree curricular guidance in Cybersecurity based on work of the ACM JTF for Cybersecurity Education
- Update and grow the database of community college computing educators
- Continue to seek international perspectives to the Committee's work
- Continue recruiting and mentoring new CCECC members
- Continue engaging with the community through social media channels, and utilizing Facebook LIVE
- Ongoing maintenance of committee website <http://ccecc.acm.org/>
- Continue serving on the ACM Education Board (Elizabeth Hawthorne)
- Continue serving on the ACM Education Council (Cara Tang)
- Continue serving on the ACM Education Policy Committee (Elizabeth Hawthorne)
- Continue serving on the ACM-W Council (Cindy Tucker) and collaborating with ACM-W
- Continue serving on the JTF for Information Technology (Cara Tang)
- Continue serving on JTF for Cybersecurity Education (Elizabeth Hawthorne)
- Continue collaborating with CSTA
- Continue communications with colleagues via the quarterly Community College Corner column in *ACM Inroads*
- Continue a variety of advocacy and outreach efforts on behalf of computing education in the community college sector, such as various conferences, articles, meetings, and workshops.
- Ongoing community-building, outreach, and dissemination activities, including conference sessions, periodic email messages to contacts in the CCECC educator database, social media engagement, website enhancements, articles, and exchanges and collaborations with colleagues.
- Ongoing support for the ACM Education Council and Education Board goals and objectives.