ANNUAL REPORT
of the
ACM COMMITTEE for COMPUTING EDUCATION in COMMUNITY COLLEGES
for the period
July 1, 2011 - June 30, 2012
www.acmccecc.org = www.capspace.org

Dr. Elizabeth K. Hawthorne provides the following report on the activities of the ACM Committee for Computing Education in Community Colleges (CCECC).

CCECC MEMBERSHIP:

<u>Members</u>

- Elizabeth K. Hawthorne, CCECC Chair; Senior Professor, Union County College; ehawthorne@acm.org

- Robert D. Campbell, CCECC Vice-Chair ; VP for IT, CUNY Graduate Center; rcampbell@gc.cuny.edu

<u>Associate Members</u>

- Becky Grasser, Department Chair, Lakeland Community College, OH

- Anita Verno, Associate Professor, Information Technology
Bergen Community College, Paramus, NJ

- Deborah Boisvert, Executive Director, BATEC Center for IT
University College, University of Massachusetts Boston, MA

- Robert Deadman, Asst Vice-President of Business, Computing Technology and Logistics
Ivy Tech Community College, Indianapolis, IN

- Margaret Leary, Professor, Information Technology
Northern Virginia Community College, Annandale, VA

- Dan Myers, Academic Programs Manager
Citrix Systems, Inc., Castle Pines, CO

- Lance Perez, Professor, Electrical Engineering
University of Nebraska, Lincoln, NE

- Michael Qaissaunee, Associate Professor, Engineering & Technology
Brookdale Community College, Lincroft, NJ

- Jason Wertz, Assistant Professor, Computer Science
Montgomery County Community College, Blue Bell, PA

- Kim Yohannan, Academic Alliance Manager
EMC Corporation, Franklin, MA

<u>Emeriti Members</u>

- Dr. Karl Klee
- Dr. John Impagliazzo
- Dr. Joyce Currie Little
- Dr. Dick Austing

PURPOSE:

The Committee charter and purpose is as follows. The *ACM Committee for Computing Education in Community Colleges* is the standing committee of the ACM Education Board concerned with computing education at associate-degree granting colleges and similar post-secondary institutions throughout the world. The *Committee* advises the Education Board as directed on all issues concerning curriculum, pedagogy and assessment, and engages in advocacy and policy for this sector of higher education.

The CCECC achieved the following milestones in FY11 (July 1, 2011 – June 30, 2012):

- Completed investigation phase (phase 1) of the associate-degree Information Technology (IT) project with recommendations to the ACM Education Board.
    - Appointed phase 1 working group members
    - Conducted in-person meeting with working group
    - Conducted monthly conference call with working group
    - Presented preliminary findings to ACM Education Council – September 17, 2011
    - Completed written report with recommendations for consideration by the ACM Education Board – January 19, 2012
- During summer of 2012 participated in the U.S. Department of Labor Competency Model for Information Technology - www.careeronestop.org/CompetencyModel/pyramid.aspx?IT=Y - in preparation for phase 2 of the associate-degree IT project.
- Establishment of CCECC Affiliate database, in support of outreach for phase 2 of our IT initiative.
- Visited the NSF ATE Convergence Technology Center at Collin County Community College in Plano, TX (near Dallas) as part of ongoing research for our IT initiative - www.connectedtech.org.
- Engaged in discussions with BATEC leadership in support of our IT initiative. BATEC is the NSF national center for Information Technology with the charge of "Transforming Education for the 21st Century IT Professional" – www.batec.org.
- Engaged in various discussions with colleagues and review of materials from other settings outside USA in support of our IT initiative.
- Continued participation on the CS2013 steering committee curricular development initiative, serving as chair of the SP KA and member of the new IAS KA.

- Continued participation on the ACM Education Policy Committee and other advocacy efforts on behalf of computing education in the community college sector.
- Continued participation with CMU's Software Engineering Institute CERT program that published Technical Report CMU/SEI-2011-TR-017, "Software Assurance Curriculum Project Volume IV: Community College Education" - www.sei.cmu.edu/library/abstracts/reports/11tr017.cfm.
- Appointed to ACM-W council - women.acm.org/who_we_are/council_ec.cfm
- Continued online survey of TYC computing faculty and programs
- Ongoing development and maintenance of CAP Space, an online repository of curricula, assessment and pedagogy resources – www.capspace.org. CAP Space was migrated to a "cloud" hosting service. We established "online communities" with a presence in Ensemble (NSDL computing portal) and incorporation with CAP Space. We also established a presence in Facebook with a designated Associate Member, Dr. Becky Grasser. Promoted Pledge of the Computing Professional via CAP Space. Promoted CSTA's new learning standards and membership via CAP Space. Promoted Technical Report from CMU Software Engineering Institute "Software Assurance Curriculum Project Volume IV: Community College Education" via CAP Space.
- Supported Computer Science Education Week by collaborating with CSTA colleagues to produce a poster with CS- and IT-related associate-degree programs. This poster was disseminated nationally in support of CS Ed Week 2011.
- Ongoing communication and outreach efforts with Chris Stephenson, Executive Director of CSTA – www.csta.acm.org
- Continued dissemination of the report of findings from the *Strategic Summit on the Computing Education Challenges in Community Colleges* – www.capspace.org/summitreport
- Collaboration with colleagues and dissemination of information through participation in a variety of conferences, including the SIGITE 2011 (West Point), SIGCSE 2012 (Raleigh), CISSE 2012 (Orlando), and MPICT (2012) that includes a YouTube video re: IT initiative - www.youtube.com/watch?v=aFBLAR6xkNU.
- Communication with colleagues via a featured column in the ACM Inroads publication, *Community College Corner* – columns available through CAP Space at www.capspace.org/committee/projects.aspx
- Support for the goals and objectives of the ACM Education Council and Board through a variety of synergistic activities.

The CCECC plans to pursue the following activities in FY12 (July 1, 2012 – June 30, 2013):

- Received $25,000 in funding from the ACM Education Board to launch phase 2 of the associate-degree IT project – July 1, 2012.
- Launch phase 2 of the associate-degree Information Technology (IT) project in accordance with phase 1 findings and phase 2 funding. (Phase 1 report provided along with this annual report.)
  - Participated in the U.S. Department of Labor IT competency model initiative
  - Assemble team of subject matter experts based around core pillars
  - Assemble team of assessment experts
  - Conduct in-person kick-off meeting (January 2013) at ACM HQ in NYC
  - Conduct monthly conference calls
  - Produce first draft of associate-degree curricular guidelines for IT
  - Initiate dissemination of guidelines via CAP Space
- Appointment of additional CCECC associate members in support of the associate-degree IT project.
- Ongoing development and maintenance of CAP Space, an online repository of curricula, assessment and pedagogy resources – www.capspace.org.
- Continue participating in the CS2013 steering committee curricular development project.
- Continuation of our representation on and collaboration with the ACM Education Policy Committee.
- Continuation of our representation on and collaboration with the ACM-W council.
- Continue serving on the *ACM Inroads* task force to chart future direction for magazine.
- Begin serving as a *Security Ambassador* under NSF award #1241738 through the Federal Cyber Service, Scholarship for Service (SFS) program - "Security Injections: Promoting Responsible Coding and Building a Community of Security Ambassadors." ACM headquarters received funding as a subaward under this NSF grant (9/1/2012 – 8/31/2015).
- Engagement in a variety of advocacy efforts on behalf of computing education in the community college sector including Grace Hopper conference 2012 and CSEdWeek 2012.
- Continue collaborating with Chris Stephenson, Executive Director of CSTA – www.csta.org
- Continuation of dissemination and outreach activities, including mailings, website enhancements, conference sessions and exchanges with colleagues, as well as continuation of our SIGCSE Inroads column and participating with the ACM Education Council.
- Continuation of support for the ACM Education Council and Education Board goals and objectives