

**ANNUAL REPORT
of the
TWO-YEAR COLLEGE EDUCATION COMMITTEE
for the period
July 1, 1999 - June 30, 2000**

Submitted By: Karl J. Klee

1. BASIC INFORMATION

1.1 Committee Members:

Karl J. Klee (Committee Chair)
Jamestown Community College
Term of Office: July 1, 2000 - June 30,
2002

Richard Austing
University of Maryland University College
(retired)
Term of Office: July 1, 2000 - June 30,
2001

Robert D. Campbell
Rock Valley College
Term of Office: July 1, 1999 - June
30, 2001

C. Fay Cover
Pikes Peak Community College
Term of Office: July 1, 2000 - June
30, 2002

1.2 Committee Charter:

The Two-Year College Education Committee is a standing committee of the ACM Education Board. The Committee is concerned with all education issues that affect computing at two-year colleges and in two-year degree programs. The primary purpose of the Committee is to provide curriculum recommendations in all areas of computing for such degree programs. The Committee may also make recommendations on other educational matters affecting such programs.

The voting membership of the Committee shall be the Chair, plus the members-at-large. The membership shall represent the interest of computing at two-year colleges. The Committee members are nominated by the Committee Chair and appointed by the Chair of the ACM Education Board.

1.3 Committee Organization:

The Committee currently consists of a Chair and three other members-at-large.

1.4 Committee Meetings:

July 23-25, 1999:

The Committee met in Washington, DC. Karl Klee, Richard Austing, Robert Campbell, C. Fay Cover, and Joyce Currie Little were in attendance. Joyce Currie Little was acknowledged and thanked by the Committee for her more than twenty years of contributions to improving computing education at two-year colleges. The Committee reviewed the curriculum report and incorporated changes suggested by the reviewers. The Committee also drafted a panel presentation proposal for the SIGCSE '00 Symposium.

October 13-14, 1999:

Karl Klee represented the Committee at the annual meeting of the Education Board in Philadelphia, PA.

October 29-31, 1999:

The Committee met in Los Angeles, CA. Karl Klee, Robert Campbell, and C. Fay Cover were in attendance. The group made preliminary plans for carrying out the NSF ATE grant requirements. The Committee also worked on designing a cover for the curriculum report and further refinement of the report.

December 4-6, 1999:

The Committee met in Washington, DC. Karl Klee, Richard Austing, Robert Campbell, and C. Fay Cover were in attendance. The Committee further refined the dynamic curriculum report based upon the latest recommendations from reviewers. The Committee also formulated preliminary plans for printing and distributing the report.

March 8-10, 2000:

C. Fay Cover represented the Committee at the SIGCSE '00 Symposium and at the meeting of the Education Board.

April 27-30, 2000:

The Committee met in New York City. Karl Klee, Richard Austing, Robert Campbell, C. Fay Cover, and Rockie Hurrell were in attendance. The Committee, with the assistance of web expert Rockie Hurrell from Pikes Peak Community College, met with Headquarters representatives, including Patrick DeBlasi, to formulate the design and content of the Committee web pages. The Committee finalized the printing and distribution plans for the curriculum report. The Committee also began the process of scripting the teleconference event within the NSF ATE project.

June 20-21, 2000:

Karl Klee met with representatives from the Northwest Center for Emerging Technologies (NWCET) in Bellevue, WA to discuss their participation in the upcoming teleconference event.

2. PROJECT SUMMARY (FY '00)

2.1 SDF Grant Project:

The Committee completed all phases outlined in the SDF grant project to update the Computer Support Services associate-degree curriculum guidelines. The revised report is entitled *Guidelines for Associate-Degree Programs to Support Computing in a Networked Environment*. These guidelines were published and mailed to all two-year colleges in the U.S. and Canada. The mailing included a printed copy, Word and PDF versions on a CD, as well as electronic access information.

Responsible: Committee Chair and members-at-large.

SDF Grant Funds: \$11,650 (Meeting expenses.)

Committee Funds: \$9,500 (Printing 6,000 copies of curriculum report, flyer and special envelopes; burning 2,000 CDs; and mailing 2,000 packets to all two-year colleges in U.S. and Canada. Some in-kind staff work was supplied by Rock Valley College.)

2.2. NSF ATE Proposal:

The NSF ATE (Advanced Technology Education) Special Projects (DUE 9909552) *A National Model for Curriculum Adaptation and Implementation* was approved effective September 15, 1999. This project will develop, test, and validate a national model for the adaptation and implementation of an advanced technology curriculum by using the current technologies of satellite teleconferencing and varied Internet resources. Although this project is a Committee initiative, NSF ATE projects must be connected to a two-year college; hence Pikes Peak Community College is designated as the lead institution with Committee members as PIs. ACM is partnered in the project by providing funding for some of the Committee meetings that deal with this project. The project will commence with a national four-hour satellite teleconference that uses the recently published ACM guidelines as a framework for curriculum adaptation and implementation.

Responsible: C. Fay Cover (PI), Robert D. Campbell (Co-PI), and Karl J. Klee (Co-PI).

NSF Funds (FY '00): \$5,600 (Approx).

Committee Funds (FY '00): \$900 (Approx.)

2.3 SIGCSE '00 Symposium:

The Committee submitted a panel proposal for the SIGCSE '00 Symposium entitled: *A National Model for Curriculum Adaptation and Implementation*. The SIGCSE '00 Program Committee chose to not include this proposal in the Symposium.

2.4 Committee Web Pages:

The Committee designed and developed web pages that are now accessible from the ACM Education page. These pages also provide access to the recently published curriculum report as well as access to the 1993 published two-year college curriculum reports. The Committee also set up a Web site through Pikes Peak Community College (<http://www.acmtyc.org>) to help serve the goals and objectives of the NSF ATE project and provide support and peer interactions with the Committee.

Responsible: Committee Chair and three members-at-large.

Committee Funds (FY '00): \$1,600 (approx.) (Some in-kind staff work was provided by Pikes Peak Community College.)

3. PLANS (FY '01)

3.1 Projects Terminating Within FY '01:

None.

3.2 Active Projects:

3.2.1 NSF ATE Grant

The Committee will be implementing the next phases of the NSF grant. This includes conducting a four-hour teleconference using the PBS facilities in Denver to be held September 22, 2000, from 1-5 p.m. (EDT). The teleconference will feature presenters from the Northwest Center for Emerging Technologies (NWCET), National Association of Communication and Systems Engineers (NACSE), Cisco, 3Com, Westnet, and Nortel. The teleconference will be available free of charge to all colleges in the U.S. The teleconference will help provide the necessary resources to two-year college faculty and administrators for the adaptation and implementation of an associate-level networking curriculum as delineated in the Committee's recently published curriculum guidelines. Competitive applications are now being received from which the Committee will select twenty implementation sites. These implementation sites will receive funding and materials to assist with their implementation of associate-level networking curricula; these resources will be supplied in part by the teleconference presenters. Follow-up activities for the project are planned for the year following the teleconference.

Responsible: C. Fay Cover (PI), Robert D. Campbell (Co-PI), and Karl J. Klee (Co-PI).

Remaining NSF Funds: \$40,000 (approx.).

3.2.2 Committee Web Pages

The Committee is continuing to update and expand the Committee's web pages, including the pages associated with the newly-established website that will facilitate the many activities associated with the NSF ATE grant (<http://www.acmtyc.org>). This site will feature results from this project, including model networking programs, curriculum materials, and other pertinent information.

Responsible: Committee Chair and three members-at-large.

3.3 New Projects Proposed:

3.3.1 Curriculum Development

The Committee is in the planning stage for the following projects:

- Initiating the two-year college implementation models for the Curriculum 2001 guidelines.
- Responding to requests for input from the Curriculum 2001 *Course Pedagogy* subgroup and the *Computing Across the Curriculum* subgroup.
- Updating the Computing Sciences guidelines within the *Computing Curricula Guidelines for Associate-Degree Programs* that were published by ACM Press in 1993.

3.3.2 Presentation at SIGCSE '01

The Committee is planning to propose a presentation at the SIGCSE 2001 Technical Symposium under the new session category called *Special Sessions*. The proposal will deal with the new curriculum guidelines and the NSF grant project.

3.3.3 Articulation

The Committee is planning to deal with the very important topic of articulation in the context of a variety of projects – including the Curriculum 2001 project. The area of

articulation includes not only program-to-program articulation among high schools, two-year colleges, and four-year colleges, but now also includes articulation issues related to distance education courses, college courses taught in the high schools, and vendor-specific certification coursework.

4. COMMENTS

While the Committee has an impressive record of securing funding from external sources (including SDF and NSF), we do not foresee the availability of funding outside of ACM for projects related to Curriculum 2001, although we will continue to pursue a variety of avenues. Therefore the Committee seeks endorsement and commitment of additional funding by the Education Board for the Curriculum 2001 projects we have noted herein. The ongoing Committee funding that is provided through the Education Board is substantially earmarked in FY '01 in support of the Committee's current NSF ATE project.

Addendum

Contact information for Committee members and Interim Report for the NSF grant project:

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<p>Richard Austing (Member-at-Large) 15112 Middlegate Road Silver Spring, MD 20905-5719 (301) 384-5373 rausting@erols.com</p>	<p>C. Fay Cover (Member-at-Large) Pikes Peak Community College Colorado Springs, CO 80906-5498 (719) 540-7397 Fay.Cover@ppcc.ccoes.edu</p>