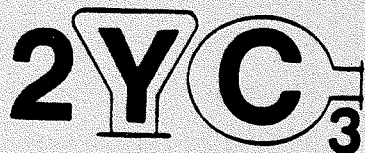


96

TOOLS OF THE TRADE



**TWO YEAR COLLEGE CHEMISTRY CONFERENCE**  
**DIVISION OF CHEMICAL EDUCATION**  
**AMERICAN CHEMICAL SOCIETY**

May 22 and 23

Montgomery College

Rockville, Maryland

1987 EXECUTIVE COMMITTEE

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60466

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American Chemical Society  
1155 Sixteenth Street  
Washington, DC 20036  
(202) 872-4587



## Tools of the Trade

Friday May 22 and Saturday May 23, 1987

Montgomery College, Rockville Maryland

For additional information about the program or arrangements please contact one of the following.

Program Chair Margot K. Schumm, Department of Chemistry, Montgomery College, Rockville, MD 20850. (301) 279-5130 or (301) 460-5561 (evenings and weekends)

Local Arrangements Chair Alan Heyn, Department of Chemistry, Montgomery College, Rockville, MD 20850. (301) 279-5129 or (301) 253-1249 (evenings and weekends)

### FRIDAY, MAY 22, 1987

- 9:00 - 3:30 Registration, Exhibits, Coffee (ground floor Humanities Building)
- 9:00 - 10:00 **Committee on Chemistry in the Two Year Colleges** [18 H (Humanities Building)] Edith Bartly, Tarrant County Junior College, South Campus, Fort Worth, TX 76119, Chair COCTYC, presiding. This meeting is open to all interested persons.
- 10:00 - 12:00
1. Open Discussion of the **ACS Guidelines for Chemistry and Chemical Technology Programs in the Two Year Colleges** [18 H (Humanities Building)]
  2. **Microorganic Laboratory: Videotape and Demonstration**, Anthony Winston, West Virginia University [40 SW (Science West)] (Limited to 40 participants selected on a first-come basis.)
  3. **Computer Workshop** (tentative)
- 12:00 - 1:15 **Lunch** (College Cafeteria, Student Center)
- 1:15 **Welcome:**  
Robert E. Parilla, President of Montgomery College,  
Alan Heyn, Chair, Department of Chemistry, Rockville Campus (18 H)
- 1:30 Conference Keynote Address: **Molecular Ecology: A Chemist's Approach to Global Understanding Through Education** David M. Mog, India Programs at the National Academy of Sciences/National Research Council
- 2:30 **THE WORLD OF CHEMISTRY, a Telecourse for Nonscience Majors**, Gilbert Castellan, University of Maryland
- 3:00 **A Model for a Regional Chemistry Alliance Involving Two and Four Year Colleges, Universities and Industry**, William T. Mooney, Jr., El Camino College
- 3:30 Break for Refreshments

- 3:45 **Physical Science for Elementary School Teachers**, Susan F. Thornton,  
Montgomery College, Takoma Park Campus
- 4:15 **Forensic Sciences and Abortion Clinic Bombings**, Mary Lou Fultz Bureau of  
Alcohol, Tobacco and Firearms, National Laboratory Center
- 4:45 **Analytical Chemistry Applied to Forensic Problems**, Charles R. Miskiff,  
Bureau of Alcohol, Tobacco and Firearms, National Laboratory Center
- 6:30 **Social Hour**, College Cafeteria (Student Center)
- 7:30 **Dinner**, College Cafeteria (Student Center)
- 8:30 Welcome: Robert E. Parilla, President, Montgomery College  
Antoinette Hastings, Provost, Rockville Campus
- 8:40 Dinner Speaker, Isidore Adler, University of Maryland and Goddard Space Center  
**Retrospective View of Planetary Exploration; The Present Consensus  
Is That the Moon Is Not Made of Green Cheese**

△ △ △ Saturday, MAY 23, 1987 △ △ △

- 8:00 - 12:00 N Registration, Exhibits, Coffee (ground floor Humanities Building)
- 8:30 **Student Errors and Their Patterns of Thought**, Barbara Rainard, Community  
College of Allegheny County
- 9:00 **Studying Thought Patterns in Learning Chemistry: How You Can Help**,  
Baird W. Lloyd, Mercer University Atlanta
- 9:30 **Grading for Results: The Chemistry Exam**, Nancy Konigsberg Kerner, The  
University of Michigan
- 10:00 Break for Refreshments
- 10:15 **Recognizing and Helping Students with Learning Disabilities**, William S.  
Patterson, Montgomery college, Rockville Campus
- 10:45 **The Periodic Table: to B A or Not to A B**, Patrick Monaghan, Memorial  
University of Newfoundland, Sir Wilfred Grenfell College
- 11:15 **Mass Spectra and Barbie Dolls: Analogy as a Tool for Teaching  
Chemistry**, W. Robert Coley, Montgomery College, Germantown Campus

11:45

**Lunch** (College Cafeteria, Student Center)

1:00

Luncheon Speaker, Alexander Wlodawer, National Bureau of Standards  
**Protein Structure and Protein Engineering**

2:00

**Regulations that Affect College Use of Chemicals**, John E. Softy, Safety Specialist, Montgomery College

2:30

**A Portable Chemistry Laboratory With Numerous Possibilities**, Joe L. Padgett, Prince Georges Community College

3:00

**Grading for Results: Grading in the Laboratory**, Nancy Konigsberg Kerner, The University of Michigan

3:30

**Stereoimaging in Color Using a Personal Computer**, David R. Cross, Western Maryland College

AGENDA

COMMITTEE on CHEMISTRY in the TWO-YEAR COLLEGES

FRIDAY, MAY 22, 1987

GENERAL MEETING, Montgomery College

- I. Introductions
- II. College listings corrections by those present
- III. Approval of the minutes from the Littleton meeting pg. 7  
Executive meeting minutes  
Open meeting minutes
- IV. Reports
  - A. Chair - Edith Bartley  
Results of the 1988 Chair-Elect and  
the 1989 Industrial Sponsor elections.  
Announcement for applications for the positions  
of 1989 Chair-Elect and Treasurer
  - B. Denver Meeting--Martin Van Dyke
  - C. Rockville Meeting--Margot Schumm, Alan Heyn
  - D. Lincoln Meeting--John Kendel
  - E. Membership--Mike Knoll pg. 13
  - F. Treasurer--John Clevenger pg. 14
  - G. College Sponsors--John Clevenger pg. 15
  - H. Industrial Sponsors--Elliott Greenberg pg. 16
  - I. Meeting Sites--Ralph Burns pg. 27
  - J. ACS Two-Year College Program--Jim Bradford pg. 31
- IV. Old Business
- V. New Business

2YC<sub>3</sub> EXECUTIVE COMMITTEE MEETING  
Board Room, Holiday Inn  
Littleton, Colorado  
Thursday, April 2, 1987

Members present: Edith Bartley, Dick Gaglione, Ralph Burns, John Clevenger, Elliott Greenberg, Michael Knoll, Jay Bardole, and Katherine Weissmann.  
Guests present: Martin VanDyke, Al Grohe.

OPENING: Edith Bartley, Chair, called the meeting to order at 7:25 p.m. and distributed personalized copies of the detailed agenda.

MINUTES: Minutes of the Executive Committee for the 94th Conference (Dayton, Ohio) were approved as printed in the Agenda book.

#### CONFERENCE SITE REPORTS

The 94th 2YC<sub>3</sub>, Sinclair Community College, Dayton, OH:

There were 79 participants (26 new members) including 11 speakers and 13 exhibitors at the Dayton conference.

The 95th 2YC<sub>3</sub>, Arapahoe Community College, Littleton, CO:

Martin VanDyke, Program Chair, and Al Grohe, Local Arrangements Chair for the 95th Conference, reported on minor changes in the program. Arrangements for the Friday evening banquet and speaker were discussed. Some twenty new paid members have registered for the conference.

The 96th 2YC<sub>3</sub>, Montgomery Community College, Rockville, MD:

Edith emphasized the need to get motel reservations made by the deadlines specified in the Newsletter. The executive committee is encouraged to stay at the Town Center Inn in Rockville (reservation deadline May 18, 1987). The Inn is near the Metro rail connecting Rockville with National Airport.

#### ANNOUNCEMENTS

The Canadian Chemistry Conference (C3), June 5-7, will be at St. John's Newfoundland. The contact person is Nora Halfyard, Marine Institute, P.O. Box 4920, St. John's, Newfoundland, A1C 5R3, (709) 778-0200. The committee agreed that it was important for COCTYC to be represented at this conference and voted to fund Edith's expenses for the trip.

#### FUTURE MEETING SITES

Edith distributed a list of future conferences with updated information. Progress regarding these meetings was reviewed by the committee.

96th Conference: Rockville, MD. No changes.

97th Conference: Lincoln, NE. No changes.

98th Conference: Jacksonville, FL. No changes.

99th Conference: Sacramento, CA. Local Arr. Chr. and Ind. Spons. Chr. needed.

100th Conference: Toronto. (Held in conjunction with National ACS Mtg. 06/05-11/88.) Program Co-chairs for 2YC<sub>3</sub> and C3 to be named.

101st Conference: Purdue Univ., W. Lafayette, IN. (Held in conjunction with 10th Biennial Chem. Educ. Conference.) No changes.

102nd Conference: Pittsburgh, PA. Oct. 14-15, 1988. Correct phone for Barbara Rainard, Chair (412) 237-2649. Local Arr. Chair is William McVeagh; Local Ind. Spons. is Joanne McCalip.

- 103rd Conference: Kansas City, KS. Date 11/18-19/1988. Local Arr. Chair is Sam Crawford, Johnson County C.C., College Blvd. at Quivira Rd., Overland Park, KS 66210, (913)-888-8500.
- 104th Conference: Irving, TX. (Held in conjunction with National ACS Mtg. 04/09-14/1989.) No changes.
- 105th Conference: Southern California site to be selected. Ralph is to check with Wanda Sterner, Ruth Sherman, Karen Timberlake or J. Nordman.
- 106th Conference: Proposed site is Jefferson Comm. College, P.O. Box 1036, Louisville, KY. Ralph is to check with Local Arr. Chair, Patricia McCoy Brown at Jefferson Comm. College.
- 107th Conference: Late Nov. 1989, Proposed site is Gulf Coast Jr. College, Gulfport, MS 39505 Ralph is to check with James Knight, GCJC (601) 896-3355.
- 108th Conference: April 1990, Boston area, in conjunction with Natl. ACS Mtg.
- 109th Conference: Late May or early June, 1990 perhaps jointly with C3. Edith and Dick will check on possibilities.

#### TREASURE/COLLEGE SPONSORS REPORT

John Clevenger, Treasurer, provided an Annual Budget which is printed in the Agenda Book on page 10 and a Financial Report for the year ending 12/31/86 with a balance of \$12717.56. There were 102 paid college sponsors for 1986. John requested Committee advice regarding the CD's that mature. The Committee voted to transfer funds from CD's that mature to the checking account.

#### MEMBERSHIP REPORT

Mike Knoll reported that membership renewal notices have been sent out; seven committee members have not paid. There are now 474 members which includes 24 new memberships from the Greenville meeting and 26 from the Dayton meeting.

#### INDUSTRIAL SPONSORS REPORT

Elliott Greenberg reported that we now have 27 industrial sponsors. We need to recruit new sponsors for each meeting.

#### POLICIES AND PROCEDURES

Election ballots were opened and John Clevenger was declared as Chair-elect for 1988 and Chair for 1989. Congratulations were extended to John.

For the position of Industrial Sponsors Chair, inquiries have been received from John Feldsine, Broome Comm. Coll., Binghamton, NY 13902, (607) 771-5000, Leo Kling, III, Tri County Tech. Coll., P.O. Box 587, Pendleton, SC 29670, (803) 646-8361, and Duane Sell, William Rainey Harper Coll., Algonquin and Roselle Roads, Palatine, IL 60067, (312) 397-3000.

For the position of Treasurer/College Sponsors there was discussion regarding the length of the term since John Clevenger will resign from these duties to assume his new position. The key question is whether the position should be a one year term to finish out John's term, or a 4-year term. Qualifications of applicants are to be submitted by October 1. Ballots will be opened at the November meeting.



## OFFICE OF THE TWO-YEAR COLLEGE REPORT

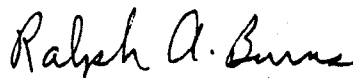
This report was given by Kathy Weissmann for Jim Bradford who was unable to attend because of involvement with the ACS national meeting. Kathy described key points of the "Guidelines for Chemistry and Chem. Tech. Programs In Two-Yr. Colleges" which are now available. This document can be used as a model for chemistry departments. Five visits have been made to four schools, and three more are scheduled. Site visits have been made to Southwest Texas J. Col., Uvalde, TX; Comm. Col. of Philadelphia, PA; S. D. Bishop State J. Col., AL; and SUNY Ag. and Tech. Col., NY. Visits are planned for Lane Comm. Col., OR; Anchorage Comm. Col.; and the Florissant Valley and Forest Park campuses of St. Louis Community College.

The committee commends Jim Bradford who has been able to use the "Critical Issues..." report effectively in his contacts. Some legislators received the report and have had it read into the Congressional Record.

It was pointed out by the committee that we do not have 2YC<sub>3</sub> representative on the Division of Chem. Educ. Executive Committee.

ADJOURNMENT: The committee was adjourned at 10:45 p.m.

Respectfully submitted,



Ralph A. Burns  
Chair-Elect

COMMITTEE ON CHEMISTRY IN THE TWO-YEAR COLLEGE  
Arapahoe Community College  
Littleton, Colorado  
Friday, April 3, 1987

Attendance: A total of 32 persons, including 28 members, attended the open committee meeting, including Jay Bardole, Dave Barkan, Edith Bartley, Ralph Burns, Jody Chase, W. E. Cheek, Allan Childs, John Clevenger, Sr. Anna-Maria Coverdell, Gerald DeChaine, Dick Gaglione, Elliott Greenberg, Leonard Grotz, Cecil Hammonds, Ed Heath, Robert Hubbs, Art Hubscher, James Johnson, John Kenkel, David Klein, Michael Knoll, John Mitchell, Duane Sell, David Shaw, Ruth Sherman, Elizabeth Singleton, Martin VanDyke, William Wasserman.

OPENING: Edith Bartley, Chair, called the meeting to order at 10:05 a.m. and introduced the chair-elect and past chairs.

MINUTES: Minutes for the 94th Conference (Dayton, Ohio) were approved as printed in the Agenda Book. Copies were circulated.

MEETING REPORTS:

The report of the 94th 2YC<sub>3</sub>, Sinclair Community College, Dayton, OH, was given by Dick Gaglione. The conference theme, "Chemistry the Central Science," was nicely carried out, including a tour of a printed circuit manufacturing plant.

The report of the 95th 2YC<sub>3</sub>, Arapahoe Comm. Col., Littleton, CO was given by Martin VanDyke who explained minor adjustments to the program, including 2 speakers who have canceled. There were a few remaining tickets for the Friday evening banquet. John Wiley and Houghton Mifflin Publishers are providing assistance with coffee and doughnuts.

The 96th 2YC<sub>3</sub> will be in Rockville, MD. Edith Bartley emphasized the need to get motel reservations made by the deadlines specified in the Newsletter.

MEMBERSHIP REPORT: Mike Knoll reported that there are now 484 members. Several COCTYC members who have not paid dues for 1987 are urged to take care of this immediately. Committee members are also required to be members of the Division of Chemical Education.

TREASURER/COLLEGE SPONSORS REPORT: John Clevenger reported a balance of \$12717.56 for the year ending 12/31/86. There were 102 paid college sponsors for 1986. These reports are included in the Agenda book on pages 10-12 and 13-15, respectively.

INDUSTRIAL SPONSORS REPORT: Elliott Greenberg distributed lists of the 27 industrial sponsors. He pleaded with all of us to help recruit sponsors.

MEETING SITES REPORT: Ralph Burns summarized a list of future meeting sites and program chairs who will plan these conferences. He pointed out that the committee welcomes suggestions for future meeting sites and names of persons willing to assist with programs. The status of future meetings follows:

- 96th Conference: Rockville, MD. 5/22-23/87 Notice deadlines for motels.
- 97th Conference: Lincoln, NE. 10/16-17/87 John Kenkel, Program Chair.
- 98th Conference: Jacksonville, FL. 11/13-14/87 L. Bray and W. Massey Program.
- 99th Conference: Sacramento, CA. 03/11-12/88 R. Lungstrom, Program Chair.
- 100th Conference: Toronto. (Held in conjunction with National ACS Meeting 06/05-11/88.) Program Co-chairs for 2YC3 and C3 to be named.

- 101st Conference: Purdue Univ., W. Lafayette, IN. (Held in conjunction with 10th Biennial Chem. Educ. Conf.) D. Kolb, Program Chair.
- 102nd Conference: Pittsburgh, PA. 10/14-15/1988. Barbara Rainard, Chair  
Correct phone (412) 237-2649.
- 103rd Conference: Kansas City, KS. 11/18-19/1988. Dave Klein Program Chair.
- 104th Conference: Irving, TX. 04/7-8/89 (Held in conjunction with National ACS Mtg. 04/09-14/1989.)
- 105th Conference: Southern California site to be selected. Late Spring 1989.
- 106th Conference: Proposed site: Jefferson Comm. Col., Louisville, KY. Oct. 89.
- 107th Conference: Proposed site: Gulf Coast Jr. College, MS. Nov., 1989.
- 108th Conference: Boston area, in conjunction with Natl. ACS Mtg. Apr. 1990.
- 109th Conference: Proposed site: Vancouver, Late Spring 1990.

#### OFFICE OF THE TWO-YEAR COLLEGE REPORT

This report was given by Kathy Weissmann for Jim Bradford who was unable to attend because of involvement with the ACS national meeting. She explained that Jim Bradford's duties have been expanded since he is now Manager of The Office of College Chemistry. Kathy described key points of the "Guidelines for Chemistry and Chem. Tech. Programs In Two-Yr. Colleges" which are now available. She urged everyone to review these guidelines and to return the evaluation of strengths and weaknesses. This document can be used as a model for chemistry departments. Five pilot visits have been made to four schools, and three more are scheduled. Site visits have been made to Southwest Texas J. Col., Uvalde, TX; Comm. Col. of Philadelphia, PA; S. D. Bishop State J. Col., AL; and SUNY Ag. and Tech. Col., NY. Visits are planned for Lane Comm. Col., OR; Anchorage Comm. Col.; and the Florissant Valley and Forest Park campuses of St. Louis Community College. Names of eleven members of the Task Force were listed.

Jim Bradford was commended for his effective use of the "Critical Issues..." report. Some 3600 copies have been distributed through the AACJC to all community college presidents and their board of trustees chairpersons. The report has also been read into the Congressional Record.

#### OLD AND NEW BUSINESS:

Edith Bartley announced that election ballots had been counted. Congratulations were then extended to John Clevenger who will serve as Chair-elect for 1988 and Chair for 1989.

Inquiries for the position of Treasurer should be submitted as soon as possible. Qualifications of applicants are needed by October 1. Ballots will be opened at the November meeting.

Martin VanDyke explained problems with travel arrangements from the Holiday Inn to meetings at Arapahoe Community College, and requested that persons with cars assist those without transportation. Persons planning on attending the Friday evening banquet are encouraged to stay on the campus.

ADJOURNMENT: The committee was adjourned at 11:10 a.m.

Respectfully submitted,

*Ralph A. Burns*

Ralph A. Burns  
Chair-Elect

MEMBERSHIP REPORT

May 20, 1987

Renewed Memberships	410
New Memberships	<u>141</u>
Total Membership	551

Note: 33 persons joined during the Denver meeting

April 9, 1987  
FINANCIAL REPORT FOR COCTYC  
From: 1/1/87 To: 4/9/87

Balance forward

\$ 13275.71

Income

College Sponsors		300.00
Individual Membership		348.00
Interest		368.12
C.D.'s	195.77	
Checking	172.35	
Meetings & Misc.		775.50
Bozeman booth	93.50	
Denver	682.00	

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\$ 1791.62

Expenses

Travel		408.50
Treasurer	408.50	
Postage		265.12
Printing		351.05
Phone		80.7

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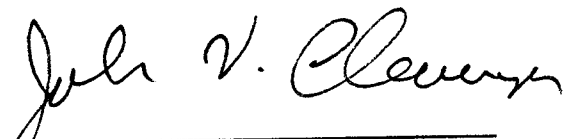
\$ 1105.38

Balance

\$ 13961.95

COLLEGE SPONSORS

We have 101 College Sponsors for 1987. A list follows this report. If your college is not a College Sponsor, please copy and use the application form.

  
\_\_\_\_\_  
John V. Clevenger  
Treasurer/College Sponsors



COMMITTEE ON CHEMISTRY IN THE TWO-YEAR COLLEGE

Division of Chemical Education, American Chemical Society

APPLICATION FOR COLLEGE SPONSORSHIP

College Name \_\_\_\_\_ Date \_\_\_\_\_

Address: (Street) \_\_\_\_\_

(City) \_\_\_\_\_ (State) \_\_\_\_\_ (Zip) \_\_\_\_\_

Contact Person \_\_\_\_\_

Dr.       Mr.       Ms.       Miss       Mrs.

Title \_\_\_\_\_

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Address (if different from above) \_\_\_\_\_

All questions and correspondence concerning the 2YC<sub>3</sub> College Sponsorship should be directed to:

John V. Clevenger  
Truckee Meadows Community College  
7000 Dandini Boulevard  
Reno, NV 89512

Phone: (702) 673-7221

Please make check for \$25 payable to:

COMMITTEE ON CHEMISTRY IN THE TWO-YEAR COLLEGE

and return with the completed application to:

JOHN V. CLEVINGER

at the above address.

Thank you for your sponsorship.

We are a tax exempt organization. Our tax I.D. # is 23-7169683

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3

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COMMITTEE ON CHEMISTRY IN THE TWO YEAR COLLEGE  
Division of Chemical Education  
American Chemical Society  
1987 Roster of Committee Members

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Forth Worth, TX 76119 (817)-531-4537 ext. 4262 (1991)

Immediate Unofrio Gaglione, New York City Technical College,  
Past Chair 300 Jay St., Brooklyn, N.Y. 11201 (718)-643-8242 (1990)

Chair-Elec Ralph Burns, St. Louis Community College at Meramec,  
11333 Big Bend St., St. Louis, MO 63122  
(314)-966-7718 (1992)

Treasure/ John Clevenger, Truckee Meadows Community College,  
College 700 Dandini Blvd., Reno, NV 89512 (702)-673-7221  
Sponsors (Second term expires 1988)

General Mike Knoll, Vincennes University Junior College,  
Membership Vincennes, IN 47591 (812)-885-4259  
Chair (Second term expires 1989)

Industrial Elliott Greenberg, Prairie State College, P.O. Box 487,  
Sponsors Chicago Heights, IL 60411 (312)-756-3110 ext. 272  
Chair (Second term expires 1987)

Past Chair Jay Bardole, Vincennes University Junior College,  
Members of Vincennes, IN 47591 (812)-885-4372 (1990)  
Executive  
Committee Marion Baker, Central Piedmont Community College,  
P.O. Box 35009, Charlotte, NC 28235-5009  
(704)-373-6462 (1989)

Tamar Y. Susskind, Oakland Community College,  
2900 Featherstone Rd., Auburn Heights, MI 48507  
(313)-853-4325 (1989)

Douglas Bond, Riverside City College, 4800 Magnolia Ave,  
Riverside, CA 92506 (714)-684-3240 ext.358 (1988)

Katherine E. Weissmann, C.S. Mott Community College  
1401 East Court St., Flint MI 48502 (313)-762-0279 (1988)

Paul Santiago, Harford Community College,  
Bel Air, MD 21014 (301)-836-4166 (1987)

John P. Mitchell, Tarrant County Junior College Northeast  
Campus, Hurst, TX 76053 (817)-281-7860 (1987)

Past Chairs William Griffin, Curtis Dhonau, Douglas Bauer (deceased),  
Cecil Hammonds, Ethelreda Laughlin, William F. Mooney Jr.

REGION I - WESTERN STATES : Alaska, Arizona, California, Colorado,  
Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Washington, Wyoming

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WESTERN REGIONAL PROGRAM CHAIRMAN 1987:

Van Dyke, Martin (1987) Front Range Community College North Campus,  
3645 W. 112th Ave., Westminster, CO 80030  
(303)-466-8811

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Albello, Gilbert (1987) Mt. Hood Community College, Gresham, OR 97030  
(503)-667-6422

Armstrong, Elizabeth (1988) Skyline College, 3300 College Drive,  
San Bruno, CA 94066 (415)-355-7000

Berner, Victor (1987) New Mexico Junior College, Lovington Highway,  
Hobbs, NM 88240 (505)-392-4510 ext. 261

Collins, Carolyn (1988) Clark County Community College,  
3300 East Cheyenne Ave, N. Las Vegas, NV 89030  
(702)-456-4109

Chase, Jody (1988) Truckee Meadows Community College,  
7000 Dandini Blvd, Reno, NV 89512  
(702)-673-7221

Cunningham, Alan (1987) Monterey Peninsula College,  
Monterey, CA 93940 (408)-646-4154

Hubbs, Robert (1988) DeAnza College, Cupertino, CA 95014  
(408)-996-4774

Hubscher, Arthur (1988) Ricks College, Rexburg, ID 83440  
(208)-356-1923

Lungstrum, Richard A. (1989) American River College, Sacramento, CA 95841  
(916)-484-8464

Mooney, William T. (1987) El Camino College, Torrance, CA 90506  
(213)-532-3670

Sherman, Ruth (1989) Los Angeles City College, 855 N. Vermont Ave.  
Los Angeles, CA 90029 (213)-669-4223

Scott, Peter (1989) Linn-Benton Community College,  
6500 SW Pacific Blvd, Albany, OR 97321  
(503)-928-2361

Wasserman, William (1988) Seattle Central Community College,  
1701 Broadway, Seattle, WA 98122  
(206)-587-4083

REGION II SOUTHERN STATES: Alabama, Arkansas, Florida, Georgia,  
Louisiana, Mississippi, North Carolina, Oklahoma, Puerto Rico,  
South Carolina, Tennessee, Texas

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SOUTHERN REGIONAL PROGRAM CHAIRMAN 1987:

Massey, Wendell (1989)	Florida Junior College, North Campus, Jacksonville, FL 32218 (904)-757-6441
Ballard, Paula (1989)	Jefferson State Junior College, 2601 Carson Rd, Birmingham, AL 35215 (205)-853-1200
Barber, Anne (1989)	Manatee Junior College, 5840 26th St. W., Bradenton, FL 33506 (813)-755-1511
Bell, Alex (1989)	Trident Technical College, P.O. Box 10367, Charleston, SC 29411 (803)-572-6159
Bell, Helen (1988)	Dyersburg State Community College, Lake Road, Dyersburg, TN 38034 (901)-285-6910
Bray, Larry (1989)	Miami-Dade Community College, South Campus, 11011 SW 104th St., Miami, FL 33176 (305)-347-2492
Cheek, William (1988)	Central Piedmont Community College, P.O. Box 35009, Charlotte, NC 28235-5009 (704)-373-6968
Fowler, Art (1989)	Hiwassee College, Box 619, Madisonville, TN 37354 (615)-442-2520 ext 280
Graham, James (1988)	J.C. Calhoun Community College, Decatur, AL 35620 (205)-353-3102
Heath, Ed (1988)	Southwest Texas Jun. Col., Garner Field Rd., Uvalde, TX 78801 (512)-278-4401
Kling, Leo III (1989)	Tri-Counties Technical College Pendleton, SC 29670 (803)-646-8361
Knight, James M. (1989)	MS. Gulf Coast Junior College, Jefferson Davis Campus, Switzer Rd, Gulfport, MS 39505 (601)-896-3355 Ext. 144
Maier, Thomas L. (1989)	Atlanta Junior College, 1630 Stewart Ave. SW, Atlanta, GA 30310 (404)-656-6365
McGlaun, Garry (1989)	Gainesville Junior College, P.O. Box 1358, Gainesville, GA 30503 (404)-535-6266
Minter, Anne (1989)	Roane State Community College, Harriman, TN 37748 (615)-354-3000
Singleton, Elizabeth (1988)	Houston Community College, 4310 Dunlavy, Houston, TX 77006 (713)-868-0787

REGION III MIDWESTERN STATES: Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin

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MIDWEST REGIONAL PROGRAM CHAIRMAN 1987:

Kenkel, John (1988) Southeast Community College, Lincoln Campus,  
Lincoln, NE 68520 (402)-471-3333

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Crawford, Sam (1987) Johnson County Community College,  
College Blvd at Quivira Rd,  
Overland Park, KS 66210 (913)-888-8500

Eidsness, Warren (1989) Normandale Community College,  
9700 France Ave S., Bloomington, MN 55431  
(612)-830-9300

Grotz, Leonard (1989) University of Wisconsin-Waukesha,  
1500 University Drive, Waukesha, WI 53188  
(414)-521-5216

Hammonds, Cecil (1989) Penn Valley Community College,  
Kansas City, MO 64111 (816)-932-7659

Johnson, Cullen (1987) Cuyahoga Community College, Western Campus,  
Parma, OH 44130 (216)-845-4000

Klein, Dave (1989) Kansas City Kansas Community College,  
7250 State Ave, Kansas City, KS 66112  
(913)-334-1000

Koch, Frank (1988) Bismarck Junior College, Bismarck, ND 58501  
(701)-224-5423

Kolb, Doris (1988) Illinois Central Community College,  
East Peoria, IL 61635 (309)-694-5011

Kreiger, Albert (1988) Jackson Community College,  
Jackson, MI 49201 (517)-787-0800

Redmore, Fred (1987) Highland Community College,  
Freeport, IL 61032 (815)-235-6121 Ext 331

Shaw, David (1988) Madison Area Technical College,  
3550 Anderson St., Madison, WI 53704  
(608)-246-6656

Sell, Duane (1987) William Rainey Harper College,  
Palatine, IL 60067 (312)-397-3000

Winkleman, John (1987) Illinois Valley Community College,  
Rural Route, Ugesby, IL 61348  
(815)-224-2720

REGION IV EASTERN STATES: Connecticut, Delaware, District of Columbia, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Virginia, Vermont, West Virginia

EASTERN REGIONAL PROGRAM CHAIRMAN 1987:

Schumm, Margot K. (1989) Montgomery College, Rockville, MD 20850  
(301)-279-5129

Burge, Robert (1987) Suffolk Community College, 533 College Road,  
Selden, NY 11784 (516)-451-4110

Cherim, Stanley (1988) Delaware County Community College,  
Media, PA 19063 (215)-353-5400

Lucci, Myron (1987) Monroe Community College,  
Rochester, NY 14623 (716)-424-5200

Feldsine, John (1988) Broome Community College,  
Binghamton, NY 13902 (607)-771-5000

Flath, Patricia (1989) Paul Smith's College,  
Paul Smith, NY 12970 (518)-327-6266

Hajian, Harry (1987) Community College of Rhode Island,  
400 East Ave, Warwick, RI 02886  
(401)-825-2258

Kanter, Muriel (1987) Roxbury Comm. College, 625 Huntington Ave.,  
Boston, MA 62115 (617)-734-1960

Katz, David (1987) Community College of Philadelphia  
1700 Spring Garden St.  
Philadelphia, PA 19130 (215)-751-8000

Rainard, Barbara (1988) Community College of Allegheny,  
Allegheny Campus, 808 Ridge Ave,  
Pittsburgh, PA 15212 (412)-237-2525

Romano, Alla (1989) New York City Technical College, 300 Jay St.,  
Brooklyn, NY 11201 (718)-643-8242

Sollimo, Vincent (1988) Burlington County College,  
Pemberton, NJ 08068 (609)-894-9311

Stumpf, Dorothy (1989) Middlesex Community College, Springs Road,  
Bedford, MA 01730 (617)-275-8910 Ext 287

Tobias, John (1989) Westchester Community College,  
76 Grasslands Ave, Valhalla, NY 10595  
(914)-285-6939

Vlassis, C.G. (1988) Keystone Jr. College, LaPlume, PA 18440  
(717)-945-5141

Zoranski, Edmund J. (1989) Atlantic Community College,  
Mays Landing, NJ 08330 (609)-625-1111



97th CONFERENCE

- 10/16-17/87 - Southeast Community College, 8800 "O" St.,  
Lincoln, NE 68520  
Program Chair: - John Kenkel, Southeast Community College,  
(402) 471-3333  
Local Arrangements Chair:  
- Don Mumm, Southeast Community College  
Local Industrial Sponsor Chair:  
- Robin Monroe, Southeast Community College

98th CONFERENCE

- 11/13-14/87 - Florida Comm. College of Jacksonville, North  
Campus, Jacksonville, FL 32218  
Co-Program Chairs:  
- Larry Bray, Miami Dade Comm. Coll., South Campus  
11011 SW 104th Street, Miami, FL 33176  
and  
- Wendell Massey, Florida Comm. College of  
Jacksonville, North Campus, Jacksonville, FL  
32218 (904) 757-6441  
Local Arrangements Chair:  
- Wendell Massey, Florida Comm. College of  
Jacksonville, North Campus, Jacksonville, FL  
32218 (904) 757-6441  
Local Industrial Sponsor Chair:  
- William Marsico, Florida Comm. College of  
Jacksonville - Kent Campus, Roosevelt Blvd.,  
Jacksonville, FL 32205  
- (904) 387-8170 or 387-8123

99th CONFERENCE

- 03/11-12/88 - American River College, 4700 College Oak Dr.  
Sacramento, CA 95841  
Program Chair: - Richard Lungstrom, American River College,  
(916) 484-8464  
Local Arrangements Chair:  
- TBA  
Local Industrial Sponsor Chair:  
- TBA

\*\*\*PLAN A VACATION FOR 1988\*\*\*

100th CONFERENCE

06/02-04/88 - Seneca College, North York, Ontario, Canada  
(near Toronto, Ontario, Canada)

2YC3-C3 Liaison Person:

- Shahid Jalil, John Abbot Coll., P. O. Box 2000  
Ste. Anne de Bellevue, PQ, H9X 3L9

Preliminary Contact Persons:

- Alan Davis, Fraser Valley College,  
45600 Airport Rd. Chilliwack, BC Canada V2P6T4  
(604) 792-0025

OR Edith Bartley, Tarrant County Junior College  
Summer: Home (817) 498-2177  
7424 Continental Tr., Smithfield, TX 76180

06/05-11/88 - National ACS Meeting with Canada and Mexico  
Toronto, Ontario, Canada

101st CONFERENCE

In Conjunction with the 10th Biennial DivChed Conference

07/31 to 08/04/88- Purdue University  
West Lafayette, IN

Program Chair: - Doris Kolb, Dept. of Chemistry,  
Bradley University, Peoria, IL 61625

AND Tamar Susskind, Oakland Comm. Coll.  
Auburn Hills Campus, 2900 Featherstone Rd.  
Auburn Hills, MI 48057 (313) 853-4325

102th CONFERENCE

10/14-15/88 - Community College of Allegheny, Allegheny  
Campus, Bob Ridge Ave., Pittsburgh, PA, 15212

Program Chair: - Barbara Rainard, Community College of Allegheny,  
Allegheny Campus, Bob Ridge Ave., Pittsburgh, PA  
15212 (412) 237-2649, DEPT'S: (412) 247-2646

Local Arrangements Chair:

- William McVeagh, Community College of Allegheny,  
Allegheny Campus, Bob Ridge Ave., Pittsburgh, PA  
15212 (412) 237-2687

Local Industrial Sponsor Chair:

- Joanne McCalip, Community College of Allegheny,  
Allegheny Campus, Bob Ridge Ave., Pittsburgh, PA  
15212 (412) 237-2535

103th CONFERENCE

11/18-19/88 - Kansas City Kansas Community College,  
7250 State Ave., Kansas City, KS, 66112

Program Chair: - Dave Klein, Kansas City Kansas Community College,  
7250 State Ave., Kansas City, KS, 66112  
(913) 334-1100

Local Arrangements Chair:

- Sam Crawford, Johnson County Junior College

Local Industrial Sponsor Chair: TBA

104th CONFERENCE

04/07-08/89 - North Lake College, 5001 N. MacArthur Blvd.  
Irving, TX 75038  
Program Chair: - Weldon Burnham, Richland College,  
(tentative) 12800 Abrams Rd., Dallas, TX 75243,  
(214) 238 6045  
Local Arrangements Chair:  
- Floyd King, North Lake College,  
5001 N. MacArthur Blvd. Irving, TX 75038  
(214) 659-5358  
Local Industrial Sponsor Chair:  
- Chuck Gonzalez, North Lake College,  
5001 N. MacArthur Blvd. Irving, TX 75038  
(214) 659-5320

105th CONFERENCE

Late Spring, 1989 - Site to be Determined  
Possible Southern California  
Program Chair: - TBA  
Local Arrangements Chair: - TBA  
Local Industrial Sponsor Chair: - TBA

106th CONFERENCE

Early Fall, 1989 - Site to be Determined  
Midwest  
Program Chair: - TBA  
Local Arrangements Chair: - TBA  
Local Industrial Sponsor Chair: - TBA

107th CONFERENCE

Late Fall, 1989 - Site to be Determined  
South - Mississippi  
Program Chair: - TBA  
Local Arrangements Chair: - TBA  
Local Industrial Sponsor Chair: - TBA

108th CONFERENCE

April, 1990 - Boston Mass. Area  
In Conjunction with the National ACS meeting  
Program Chair: - TBA  
Local Arrangements Chair: - TBA  
Local Industrial Sponsor Chair: - TBA

109th CONFERENCE

Late May or - Possible Site at Vancouver, B. C., Canada  
Early June, 1990  
Contact Person: - William Wasserman, Seattle Central Community  
College, Seattle, WA 98122, (206) 587-4080  
Local Arrangements Chair: - TBA  
Local Industrial Sponsor Chair: - TBA

COMMISSION ON THE FUTURE OF COMMUNITY COLLEGES



AACJC

American Association  
of Community and  
Junior Colleges

HEARINGS

DALLAS, TEXAS

APRIL, 1987

Senator Nancy L. Kassebaum  
*Honorary Chair*

Ernest I. Bover  
*Chair*

Jack W. Blanton  
*Vice Chair*

*Commission Members*

Harold D. Albertson

Patricia Cross

Wilhelmina R. Delco

John M. Ellison

Paul A. Elser

Marvin Feldman

Alfred P. Fernandez

Frank Newman

Wayne T. Newton

Henry O. Banton

David R. Pierce

George L. Potter

Deverly S. Simons

Wesley S. Tsunoda

James I. Wattenbarger

Community colleges clearly reflect the growing pluralism of American life, mirroring many of the complexities and creative opportunities inherent in our nation. If the future of education is to be well served, these institutions must face challenges both critically important and difficult to achieve.

Community colleges must continue to serve a broad range of educational needs among their students. They must respond to pressing issues facing their communities, issues generally in the forefront of the larger national agenda. They must insist on excellence in all the educational endeavors they pursue. They must forward a fundamentally American vision of educational opportunity for all.

In support of the Commission on the Future of Community Colleges' initial deliberations, witnesses have been asked to address one or more of the following questions:

What are the most urgent issues and trends that community colleges must address as they plan for the future?

What elements of their own identity must community colleges strengthen or change as they plan for the future?

What bold message/advice -- vision, caution, point of emphasis, forgotten word, strategy -- would you offer the Commission as it contemplates the future of community colleges?

*Staff*

R. Ian McCoy

Lawrence W. Price

Dele Parrish

*Commission Staff*

Nancy R. Armes

*Executive Director*

Bartha Hughes

Joel D. Lavin

*Research Associates*

Liana F. Rangel

*Staff Assistant*

*Commission Address*

101 Elm

Suite 520

Dallas, TX 75202-5299

Phone 746-2053



# American Chemical Society

SOCIETY COMMITTEE  
ON EDUCATION

1155 SIXTEENTH STREET, N.W.  
WASHINGTON, D.C. 20036

## OPPORTUNITIES FOR TOMORROW IN SCIENCE EDUCATION

Mr. Chairman, Members of the Commission, Ladies and Gentlemen:

On behalf of the Task Force on American Chemical Society Involvement in the Two-Year Colleges, I thank you for this opportunity to provide information for your consideration as you plan for the future of America's two-year colleges.

Our country is rapidly falling behind other nations in meeting the challenges of worldwide economic competitiveness. Our scientific and technological developments, once the envy of the world, are no longer in the vanguard.

There is another problem of equal significance. Our nation is falling behind in its ability and willingness to deal with societal problems caused, in part, by developments in science and technology. Furthermore, dealing with these societal problems will require new technology--applied in a socially responsible manner--and new educational strategies to enable our population to take full advantage of the developments.

Because of their unique adaptability and responsiveness, our community colleges are in a position to make a significant and positive contribution to the solutions to these problems. However, unless several issues are appropriately addressed, our college science departments will be unprepared to meet the challenge before them.

- Right now, our two-year college science departments are
- o frequently staffed with overworked faculty who have few opportunities for professional growth,
  - o chronically plagued by inadequate laboratory and instructional equipment, and
  - o inevitably faced with large numbers of underprepared students.

These critical issues must be addressed before our community, junior, and technical colleges can contribute to putting the United States back in the



forefront of world markets.

We respectfully suggest that this commission consider at least the following four concerns of the scientific and technological communities.

- 1) Public policy decisions, at all levels, and life, in all its facets, have rapidly increasing scientific and technological components. Unfortunately, this comes at a time when we have a dangerously low level of science literacy among policy makers and the general public. To improve the quality of public policy decisions and of life in all its facets, future two-year college science programs must contribute to the public understanding of science much more effectively than do our present programs.
- 2) Changes in demographics and in student interests have caused substantial decreases in our nation's pool of scientists and engineers. Unless we make some tremendous strides in attracting and retaining students in the sciences, we cannot hope to replace our existing cadre of technological workers. The scientific workforce of the future will not come from the traditional source--White males. There simply will not be enough students from this source. We must make great progress in attracting women and minorities into the sciences, and we must make progress in encouraging returning students to consider a career in the sciences. This pool of students--the population now best served by two-year colleges--represents our only hope of replacing our current scientific workforce. With appropriate assessment and placement programs, career counseling, and preparatory programs in which the science faculty participate, the community colleges can tap this vast, under utilized pool of talent.
- 3) The transfer of technology from scientific discoveries into technological developments creates a need for personnel educated to work with new technologies. Technological advances always require a greater level of scientific understanding, and they require training programs that are adaptable enough to incorporate new knowledge bases. These developments also require an updated faculty and modern equipment in the colleges to implement them to their fullest advantage.
- 4) The rapid advance of science and technology that will certainly characterize the future will create a great need for lifelong learning opportunities. The two-year colleges, because of their special accessibility and adaptability, can become the focus of a nationwide effort to keep our workforce up to date and our populace well informed for responsible citizenship in these aspects of modern life. Continuing education in the sciences and the science-based technologies will need to provide the workforce with constant opportunities to add to the framework of knowledge

acquired during the years of formal education. Understanding the structure and behavior of nature (science) and how we control and reform nature to our benefit (technology) will not come from a one-shot, traditional academic preparation. The rate of scientific and technological advances in the future will mandate new approaches to science education both in the formal years of schooling and throughout life.

Each of these four concerns must be addressed in terms of faculty development, laboratory and instructional equipment needs, and curriculum and instructional strategies. It will do little good to initiate new programs for science education if there is not a substantial commitment to properly staffing and equipping these programs.

The American Chemical Society has been active in addressing the issues raised in this testimony. The reports of numerous conferences and workshops have been transmitted to the Futures Commission staff and will be available for your detailed consideration. We encourage you to especially consider the report, "Critical Issues in Two-Year College Chemistry," and work to implement the recommendations addressed to the National Science Board, the Commission on Postsecondary Accreditation, and to AACJC as well as other organizations. Because of the necessary limitations on time, we will provide additional, written testimony to this commission along with other supporting documentation. This additional information will present models for interorganizational cooperation, science education research in the two-year colleges, student-faculty research opportunities, regional alliances among two- and four-year colleges, partnerships with industry, programs for training K-12 science teachers in the two-year colleges, and the concept of a regional or local science development office.

Finally, we strongly recommend that you give as much consideration to the curricular areas of the sciences, the technologies, the humanities, and the social sciences as you do to the concerns of institutional organization, philosophy, financing, and governance as suggested in other testimony. It is not an overstatement to say that the economic future of the United States depends to a considerable extent on the directions two-year colleges take in their programming in the next decade.

Again, thank you for this opportunity to present our concerns. We stand ready to cooperate in any way you see fit as you undertake your critical assignment.

Respectfully submitted,

William T. Mooney, Jr.  
Chairman

Task Force on ACS Involvement in the Two-Year Colleges

Dr. Roger F. Bartholomew (Corning Glass Works)

Professor Edith Bartley (Tarrant County Junior College)

Professor Harry Hajian (Community College of Rhode Island)

Professor Donald Jones (Western Maryland College)

Dean Fritz Kryman (University of Cincinnati)

Professor John Mitchell (Tarrant County Junior College)

Professor William T. Mooney (El Camino College)

Dr. Robert Shunn (E. I. du Pont de Nemours, Inc. retired)

Professor Tamar Susskind (Oakland Community College)

Professor Katherine Weissmann (C. S. Mott Community College)

\* Dr. E. James Bradford (American Chemical Society Staff)

Office of Two-Year Colleges

American Chemical Society

1155 Sixteenth Street, N.W.

Washington, DC 20036

(202) 872-4587

## Call for Nominations for Chair-Elect 1989

The Policies and Procedures for the nomination of candidates for the office of Chair-elect require a call for nominations to be included in the second spring and first fall Newsletters each year. Nominations must be received by the chair not later than noon Saturday of the first fall conference. This means that nominations for the office of Chair-Elect for 1989 should be sent to Edith Bartley no later than noon, October 1, 1987, to insure receipt by first fall meeting.

To be eligible for nomination for the office of Chair-Elect an individual must:

- (a) be a two-year college chemistry teacher.
- (b) have been a dues-paying member of 2YC3 for a minimum of three years prior to nomination.
- (c) be a member of ACS and DIVCHED.
- (d) have demonstrated leadership and organizational ability by serving as Chair or Co-Chair for a conference and in one or more of the following capacities:
  - (1) Served three years on the Executive Committee.
  - (2) Served as Local Arrangements Chair for a conference.
  - (3) Chaired a sub-committee.
  - (4) Contributed within the past three years in two or more ways such as: local industrial sponsor coordinator, chair of a conference section, paper presenter at a conference, moderated a panel at a conference and so on.

It is highly desirable that the Chair-Elect's college be agreeable to helping with certain expenses such as printing, mailing, telephone, typing and travel, during the three year period of committment.

Nominations for this office must include:

- (a) pertinent personal data such as name, college, job title, address and so on.
- (b) a statement of qualifications signed by the nominee.
- (c) signed consent of the nominee.



**Preliminary Program - 97th ZYC<sub>3</sub> Conference - October 16,17, 1987, Southeast Community College, Lincoln, Nebraska**

1. **A New Chemistry Technician Program at a Small Rural College in Maryland.**  
**Speaker: Les Picker, Cecil Community College, North East, Maryland**
2. **Ten Years of Developing Chemical Engineering Technicians - Looking Back and Planning Ahead**  
**Speaker: George Williams, State Technical Institute at Memphis, Memphis, Tennessee**
3. **The Ferris State College Chemical Technology Curriculum.**  
**Speaker: Norman Peterson, Ferris State College, Big Rapids, Michigan**
4. **Chemical Technology in an Urban Two Year College - Yesterday, Today and Tomorrow**  
**Speaker: Onofrio Gaglione, New York City Technical College, Brooklyn, New York**
5. **Chemical Technology at Cape Fear Technical Institute.**  
**Speaker: Dale Buck, Cape Fear Technical Institute, Wilmington, North Carolina**
6. **The Research Laboratory Technology Program at Athens Technical School.**  
**Speaker: Carol White, Athens Area Vocational Technical School, Athens, Georgia**
7. **Recent American Chemical Society Activities for Technician Training**  
**(Title subject to change).**  
**Speaker: Ken Chapman, American Chemical Society, Washington, D.C.**
8. **Chemical Technology at Florissant Valley.**  
**Speaker: Tom Mines, St. Louis Community College at Florissant Valley, St. Louis, Missouri**
9. **A New Technician Training Program in Kansas City. (Title subject to change).**  
**Speaker: Eugene Jack, Johnson County Community College, Overland Park, Kansas.**