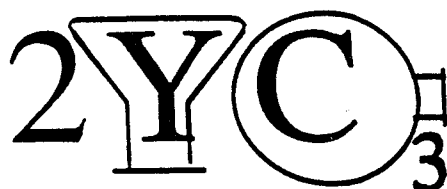


112th TWO-YEAR COLLEGE CHEMISTRY CONFERENCE

SCHOLARSHIP, CURRICULUM, GRANTS

How to Deliver Better Chemical Education
Under Today's Economic Constraints



TWO YEAR COLLEGE CHEMISTRY CONFERENCE

DIVISION OF CHEMICAL EDUCATION
AMERICAN CHEMICAL SOCIETY

November 16, 1990
Atlantic Community College
Mays Landing, NJ

COMMITTEE ON CHEMISTRY IN THE TWO-YEAR COLLEGES

Division of Chemical Education, Inc.

American Chemical Society

1990 Roster of Committee Members

Chair	Elliott Greenberg, Prairie State College 202 S. Halsted Street, Chicago Heights, IL 60411 Home (708) 748-9327 Office (708) 756-3110	(1993)
Immediate Past Chair	John Clevenger, Truckee Meadows Community College, 7000 Dandini Blvd., Reno, NV 89512 Office (702) 673-7221 Home (702) 348-6695	(1992)
Chair-Elect	Margot K. Schumm, Montgomery College-Rockville, 51 Mannakee Street, Rockville, MD 20850 Office (301) 279-5000 Home (301) 460-5561	(1994)
Treasurer/ College Sponsors	Duane Sell, William Rainey Harper College, 1200 West Algonquin Road, Palatine, IL 60067 Office (708) 397-3000, Ext. 2408 Home (708) 830-2018	(1991)
Membership Chair	Richard F. Jones, Sinclair Community College, 444 West Third Street, Dayton, OH 45402 Office (513) 226-2500 Home (513) 836-9179	(1992)
Industrial Sponsors Chair	Leo Kling III, Faulkner State Junior College, Bay Minette, AL 36507 Office (205) 937-9581 Home (205) 937-4384	(1990)
Past Chairs (Members of Executive Committee)	Ralph Burns, St. Louis Community College-Meramec, 11333 Big Bend St., St. Louis, MO 63122 Office (314) 966-7718 Home (314) 225-9253	(1991)
	Edith Bartley, Tarrant County Junior College, South Campus, 5301 Campus Dr., Fort Worth, TX 76119 Office (817) 531-4754 Home (817) 498-2177	(1991)
	Onofrio Gaglione, New York City Technical College, 300 Jay Street, Brooklyn, NY 11201 Office (718) 643-8242 Home (718) 331-5780	(1990)
	Jay Bardole, Vincennes University Junior College, Vincennes, IN 47591 Office (812) 885-4372 Home (812) 882-5272	(1990)
Other Past Chairs	Tamar Y. Susskind, Katherine E. Weissmann, Marion Baker, Douglas Bond, Paul Santiago, John P. Mitchell, William Griffin, Curtis Dhonau, Douglas Bauer (deceased), Cecil Hammonds, Ethelreda Laughlin, William T. Mooney, Jr.	

2YC₃ Advisory Board Meeting
112th Conference
Atlantic Community College, Mays Landing, NJ
Friday, November 16, 1990

AGENDA

- I. Introductions
 - A. Officers and Past Chairs
 - B. Self-introduction of those present
- II. Minutes from the 111th Conference, Elgin, IL
 - A. COCTYC Meeting Minutes, page 1
 - B. Approval of Advisory Board Meeting Minutes, page 3
- III. Reports
 - A. 111th Conference (10/5-6/90) at Elgin, IL
 - B. 112th Conference (11/16-17/90) at Mays Landing, NJ
 - C. Treasurer - Duane Sell, page 4
 - D. College Sponsors - Duane Sell, page 5
 - E. Membership - Richard Jones, page 12
 - F. Industrial Sponsors - Leo Kling III, page 13
 - G. Future Meeting Sites - Margot Schumm, page 14
 - H. Office of College Chemistry - Terri Nally, page 18
- IV. Items from the Advisory Board
- V. Announcements
- VI. Self-Introduction of Additional Arrivals
- VII. Adjournment

COCTYC Executive Meeting
111th Conference
Elgin Community College, Elgin, Illinois
Saturday, October 6, 1990

Members Present: Edith Bartley, Ralph Burns, Elliott Greenberg, Richard Jones, Margot Schumm, Duane Sell

Guests: Lavoir Banks, Katherine Weissmann

Call to Order

Elliott Greenberg, Chair, called the meeting to order at 3:25 P.M.

Approval of Minutes of the COCTYC Meeting, 108th Conference

The minutes of the Executive Committee meeting held at Middlesex Community College in Bedford Massachusetts were approved as written (see Agenda Book pages 4 and 5).

Summary Report of the 111th Conference

Lavoir Banks reported that approximately 130 people were registered for the meeting. He promised to send the list of attendees to Richard Jones and the exhibitors as soon as possible. The workshops with the highest attendance were The Chemistry of Learning, HPLC Chromatography, Using the Interactive Computer and FTIR. Workshop leaders have offered to conduct similar workshops at other meetings. Program Chairs of future meetings should be made aware of this. Professor Banks suggested that workshops might be improved in the future by either sending registrants reading materials when they preregister or giving the material to workshop registrants when they arrive at the meeting. In this way, workshop participants would have the necessary background material to get the most out of the workshop. Dr. Greenberg expressed the Committee's thanks for a well run and interesting meeting.

Announcements

1. The fourth and last Newsletter for 1990 has just been mailed. All future items to be published in the Newsletter should be sent to Margot Schumm.
2. The pool of people willing to hold office in 2YC₃ has gotten very small. Minorities and younger people must be recruited to keep the organization vital. Hopefully, some of the suggestions to come from the long range planning workshops that Dr. Weissmann has conducted will provide remedy for this problem.

Personnel Matters

1. Chair-elect 1992: Packets containing background information, vitae and letters from each of the candidates were distributed. There was a short discussion on the merits of each candidate. Further discussion is scheduled for the May's Landing meeting. Ballots will be sent to COCTYC members after this meeting.
2. Industrial Sponsors Chair: Letters expressing interest in the position were distributed. The merits of the candidates were discussed. Ballots will be mailed to committee members in a few weeks.
3. Assistant Industrial Sponsor's Chair: There was one candidate for this position. This name will be included on the ballot for the Industrial Sponsor's Chair that will be mailed to COCTYC members in a few weeks.
4. Secretary/Editor: There were no candidates. Discussion centered around reasons for the lack of interest in the position. It was suggested that the position entails too much work for one person and that it might be wise to create two offices, one for Editor and a second for Secretary.
5. Appointments to the 2YC₃ Regional Advisory Boards: The list of regional members of the Advisory Boards were reviewed. Members whose terms ended in 1990 will be sent one of three letters; 1. a letter asking them to serve another term, 2. a letter asking them to indicate whether or not they wish to be reappointed or 3. a letter thanking them for their past service. The criteria used to determine which letter was to be sent were, length of service, degree of involvement in the organization and present status of membership in 2YC₃. The Site Selection Committee, Ann Cartwright, Southern Region, John Kenkel, Midwestern Region, Dick Gaglione, Eastern Region and Bill Wasserman, Western Region will remain unchanged as none of the terms expire this year.

NSF Grant Proposal

The ACS policies regarding lobbying were discussed. Persons who wish to discuss problems relating to the low approval rate for grant proposals from two-year colleges either with NSF staff or with legislators, must do so as individuals and not as representatives of ACS, DIVCHED or 2YC₃. Elliott Greenberg will try to make appointments with Luther Williams at NSF and key legislators for the

Wednesday or Thursday before the May's Landing meeting. He will ask Estelle Gearon of Montgomery College, Takoma Park, to accompany him. Dr. Gearon has served on a Grant Review Panel for NSF. She was disturbed at the lack of understanding of four-year and university faculty of the needs of two-year college chemistry departments. At their meetings, Greenberg and Gearon will stress the need for education of panelists, seek information, express the concerns of the two-year college community and ask how we can help NSF and congress to help us. Margot Schumm reported on a conversation she had recently had with Robert Watson. Watson suggested that we need representatives from two-year colleges on the National Science Board which is the advisory board to Luther Williams. Members of this Board must be high level administrators, i.e. college presidents.

Preliminary Budget Review

Duane Sell distributed a proposed budget for 1991. He anticipates increases in all membership categories; college sponsors to 120, individual members to 630 and industrial sponsors to 25. He also proposed that the expense accounts for all budgeted positions be increased by \$ 50.00 except for the chair position which would be increased by \$ 100.00. A long discussion on how to use the seed money budgeted for each conference ensued. Because there was no concensus, Ralph Burns moved to table the discussion until the next meeting. The motion was seconded and approved. The budgetary impact of expanding the Newsletter and simplifying the Agenda Book was also discussed. Though there seemed to be a concensus in favor of the proposed changes, no vote was taken on this matter.

Report from the Membership Chair

Dick Jones distributed the new application form which should provide more information about members. He discussed plans to conduct a survey of all two-year colleges in order to obtain a profile of two-year college chemistry departments and their full-time faculty. The survey will also ask for the number of part-time faculty employed by each department. Questionnaires will be sent to an individual in each department. Members of the Regional Advisory Boards will be asked to help identify persons who are likely to respond to the survey. To encourage return of the survey, it was proposed that postage-paid return envelopes be provided. Ralph Burns moved approval of this proposal. The motion was seconded by Duane Sell and passed unanimously.

New Business

Several suggestions arose from the discussion of personnel matters. First, it was judged necessary to develop job descriptions for the new positions of Editor and Secretary. A position of Administrative Assistant to the Chair was also proposed, and a job description for that position will also have to be developed. Duane Sell, Richard Jones, Elliott Greenberg and Edith Bartley volunteered to work on these matters. It was decided to involve more of the members of the Regional Advisory Boards in the operation of the organization by creating a new position and expanding the duties of the present positions. Each region will have a Program Chair, a Site Committee Chair and a Regional Chair. The Regional Chair should be an experienced member of 2YC₃ who would advise and assist schools hosting a meeting. The Regional Chair would enlist the services of Regional Advisory Board members to help with regional 2YC₃ meetings and advise COCTYC on likely candidates for service in 2YC₃. Ralph Burns suggested that the Regional Chairs make recommendations to COCTYC for reappointments and new appointments to the Regional Advisory Boards. It was also suggested that a position of Chair-emeritus be established for past chairs who wish to remain active in the organization and that unless one person is a past chair, two people from the same school not be appointed to a Regional Advisory Board at the same time. Leo Kling proposed that retiring Chairs receive a plaque. The motion was seconded by Duane Sell and passed unanimously.

Adjournment

The meeting was adjourned at 5:45 P. M.

Respectfully Submitted,



Margot K. Schumm, Chair-elect, 1990

**2YC₃ Midwestern Regional Advisory Board Meeting
111th Conference
Elgin Community College, Elgin Illinois
Friday October 5, 1990**

Attendance

Twenty eight names were listed on the attendance sheet. Of those listed, twenty seven were 2YC₃ members and eleven were members of one of the four Regional Advisory Boards.

Opening

The meeting was opened at 9:15 A. M. by the Chair, Elliott Greenberg.

Introductions

The COCTYC officers and past chairs were introduced. Following that, all others in attendance introduced themselves.

Minutes

Edith Bartley moved approval of the minutes of the 109th meeting held at Capilano College, Vancouver, British Columbia, on June 14, 1990. The motion was seconded and the minutes were approved by voice vote.

Presentation

The Chair introduced Terri Nally, from the American Chemical Society Office of College Chemistry. Ms. Nally distributed a packet that contained, 1. a flow chart showing the American Chemical Society's Official Public Policy Development Process, 2. a copy of Bylaw X which governs the publication of position statements by local sections, divisions or any other Society body, 3. a copy of the American Chemical Society's Public Affairs Manual and 4. a copy of the official American Chemical Society policy on science education, Educational Policies for National Survival. This policy statement was developed by the Society Committee on Education. Ms. Nally told the group that we, two year college teachers, have finally empowered ourselves and that we must now learn to use that power effectively. Among technical societies, the ACS leads in support of science education. Two year college chemistry teachers are its leading authorities on chemical education and science education in general. She then discussed the material she had included in the handout and concluded her remarks with the advice that 2YC₃ have closer contact with the Division of Chemical Education and its officers. She suggested that the members of the Executive Committee of the Division be invited to all 2YC₃ meetings and that they be sent copies of key memos so that they are informed of what 2YC₃ is doing. She also noted that two year college teachers play a key role in the division and cited as evidence, that the incoming Chair of the Division, Doris Kolb, was a former two year college teacher and the Chair-elect of the Division, Lucy Pryde, is also a two-year college chemistry teacher.

Long Range Planning

Katherine Weissmann conducted a workshop designed to solicit suggestions for developing a long range plan for 2YC₃. The Committee feels that 2YC₃ is not as effective as it should be in reaching two year colleges and teachers. This may be because we are not providing them with anything they consider worthwhile. To illustrate the extent of the problem, she provided the following statistics: there are 1200 two year colleges, and only 100 of them are college sponsors. Of the 2000 full-time chemistry faculty, only 600 are members of 2YC₃ and roughly 2/3 of these attend at least one 2YC₃ meeting a year. Ideally, we should provide benefits and services that would solicit a negative answer to the question, "Can you afford not to be a member of 2YC₃?" from every two year college chemistry teacher. Those attending were then divided into groups of three to consider the following four questions. What is the purpose and role of 2YC₃? Who are the future two year college faculty? Who are the future two year college chemistry students? and How useful is 2YC₃ to teachers? The recommendations were collected and will be published and distributed as soon as possible.

Adjournment

The meeting was adjourned around 10:30 A. M.

Respectfully submitted,

Margot K. Schumm

Margot K. Schumm, Chair-elect 1990

**COMMITTEE ON CHEMISTRY
IN THE TWO-YEAR COLLEGE**

STATEMENT OF INCOME AND EXPENSE

FOR THE PERIOD OF 09/01/90 TO 10/10/90

	BEGINNING BALANCE				\$13205.56
	CURRENT PERIOD		YEAR TO DATE		
	RATIO	AMOUNT	RATIO	AMOUNT	
INCOME					
DUES AND SPONSORS					
DivChed	41.8	2000.00	15.1	2000.00	
Membership Dues	20.3	970.00	42.1	5550.00	
Industrial Sponsors	29.3	1400.00	16.6	2200.00	
College Sponsors	0.5	25.00	10.0	1325.00	
INTEREST					
Checking Account	2.1	99.87	4.1	546.31	
CD's	6.0	288.58	12.1	1589.70	
	-----	-----	-----	-----	
TOTAL INCOME	100.0	\$ 4783.45	100.0	\$13161.01	18189.01
 EXPENSES					
TRAVEL & OFFICE	1.2	55.50	20.3	2674.57	
NEWSLETTER					
Printing & Postage	17.2	820.93	24.5	3222.02	
OTHER					
Biennial	0.0	0.00	3.2	420.16	
	-----	-----	-----	-----	
TOTAL EXPENSES	18.4	\$ 876.43	48.0	\$ 6316.75	
NET INCOME (LOSS)	81.6	\$ 3907.02	52.0	\$ 6844.26	

CURRENT BALANCE \$17312.58

To date there are 117 COLLEGE SPONSORS. Is your college a 2YC₃ COLLEGE SPONSOR?

Respectfully Submitted

Duane Sell
Duane Sell, Treasurer

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Arnold, MD. 21012

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Yuma, AZ. 85364

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**COMMITTEE ON CHEMISTRY IN
THE TWO-YEAR COLLEGE**

Division of Chemical Education, American Chemical Society

APPLICATION FOR COLLEGE SPONSORSHIP

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Contact Person _____

Prof. Dr. Mr. Ms. Miss Mrs.

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All questions and correspondence concerning the 2YC₃ College Sponsorship should be directed to:

Duane Sell
W.R. Harper College
1200 West Algonquin Road
Palatine, IL 60067-7398

Phone: (708) 397-3000 Ext. 2408

Please make check for \$25 payable to:

COMMITTEE ON CHEMISTRY IN THE TWO-YEAR COLLEGE

and return with the completed application to:

DUANE SELL

at the above address

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

Thank you for your sponsorship.

1990 2YC₃ MEMBERSHIP REPORT

As of October 11, 1990 there are a total of 535 members.

Submitted by



Richard F. Jones
Membership Chair

October 15, 1990

REPORT OF 2YC3 INDUSTRIAL SPONSORS

Paid Industrial Sponsors to Date: 25

October 25, 1990

Submitted by
Leo Kling III

CONFERENCE SUMMARY CALENDAR

OCTOBER 10, 1990

ACADEMIC
YEAR

	<u>112th</u> (Eastern)	<u>113th</u> (Western)	<u>114th(ACS)</u> (Southern)
1990-91	Nov. 16-17, 1990 Mays Landing, NJ	Mar. 1-2, 1991 Phoenix, AZ	Apr. 12-13, 1991 Clarkston, GA

	<u>115th</u> (Eastern)	<u>116th</u> (Southern)	<u>117th(ACS)</u> (Western)	<u>118th</u> (Midwestern)	<u>119th</u> (Biennial)
1991-92	Sept. 28-29, 1991 Arnold, MD	Nov. 15-16, 1991 Wilmington, NC	Apr. 3-4, 1992 Kentfield, CA	May, 1992 Dearborn, MI	Aug. 1992 Davis, CA

	<u>120th</u> (Southern)	<u>121st</u> (Western)	<u>122nd</u> (Midwestern)	<u>123rd</u> (Eastern)
1992-93	Oct. 2-3, 1992 Amarillo, TX	Nov. 13-14, 1992 Gresham, OR	Apr. 16-17, 1993 Bloomington, MN	

October 10, 1990

TWO-YEAR COLLEGE CHEMISTRY CONFERENCE SITES

1990-91 ACADEMIC YEAR

113th CONFERENCE(Western Region)

March 1-2, 1991 - Phoenix College, 1202 West Thomas Road,
Phoenix, AZ 85013. (602)264-2492

Program Theme: SCIENTIFIC LITERACY FOR THE 21ST CENTURY

Program Chair: Alan Kruse, Chemistry Department, Pima C.C.
2202 W. Anklam Road, Tucson; AZ 85709
(602)884-6031

Local Arrangements Chair: Patricia Moyer, Chem. Dept., Phoenix College
(602)285-7142

Exhibits Coordinator: John Weide, Chemistry Dept., Phoenix College
(602)285-7140

114th CONFERENCE(Southern Region)

(Preceding the ACS National Meeting, Atlanta, GA, April 14-19, 1991)

Apr. 12-13, 1991-DeKalb Community College, 555 N. Indian Creek Drive
Clarkston, GA 30021 (404) 299-4000

Program Theme: TOWARD THE SECOND MILLENIUM

1. Increasing Use of Computers in Chemical Education
2. Increasing Awareness of Hazardous Materials & Safety

Co-Program Chair: Michael Denniston, Science Dept., DeKalb College

OFFICE: (404)299-4097 HOME: (404)292-6683

Judy Johnston, Science Dept., DeKalb College

OFFICE: (404)299-4098 HOME: (404)923-5068

FAX: (404)299-4301

Local Arrangements Chair: Larry Dickinson, Science Dept., DeKalb
College, 2101 Wimack Rd., Dunwoody, GA. 30338

OFFICE: (404)551-3130 FAX: (404)551-3201

HOME: (404)923-1541

Exhibits Coordinator: Larry Little, Science Dept, DeKalb College,

3251 Panthersville Rd., Decatur, GA 30034

OFFICE: (404)244-5072 FAX: (404)244-2965

1991-92 ACADEMIC YEAR

115th CONFERENCE(Eastern Region)

* Sept. 28-29, 1991-Anne Arundel Community College (AACC), 101 College
Parkway, Arnold, MD 21012 (301) 647-7100
FAX (301) 541-2489

* Program Theme: CHEMICAL EDUCATION-TEACHERS AND TECHNOLOGY

* Program Co-Chairs: Paul Kreiss, OFFICE: (301) 541-2548

Sridharan Iyengar, OFFICE: (301) 541-2266

* Local Arrangements Co-Chairs: Debbie Reeder, OFFICE: (301) 541-2224

Rita Ailstock, OFFICE: (301) 541-2320

* Exhibits Coordinator: Elijah Pugh, OFFICE: (301) 541-2261

* Indicates new or revised information

October 10, 1990

116th CONFERENCE(Southern Region)

Nov. 15-16, 1991-Cape Fear Community College, 411 N. Front St.
Wilmington, NC 28401 (919) 343-0481

Program Theme: CHEMICAL POTPOURRI

Program Chair: Dale R. Buck, Chemical Tech. Dept., Cape Fear C.C.

OFFICE: (919) 343-0481, ext. 263 HOME: (919) 762-6369

Local Arrangements Chair: Raymond P. Brandi, Marine Tech. Dept.,
Cape Fear C.C.

OFFICE: (919) 343-0481, ext. 260 HOME: (919) 763-7192

Exhibits Coordinator: William E. Cheek, Chemistry Dept

Central Piedmont C.C., 1201 Elizabeth Ave at
Old Kings Drive, Charlotte, NC 28204

OFFICE: (704) 342-6968 or 6603 HOME: (704) 535-3418

117th CONFERENCE(Western Region)

(Preceding the ACS National Meeting, San Francisco, CA. April 5-10, 1992)

Apr. 3-4, 1992-College of Marin, 835 College Ave./Sir Francis Drake
Kentfield (Marin County), CA 94904 (415) 457-881
FAX: (415) 485-0135

Program Theme: T.B.A

Program Co-chair: Elizabeth Armstrong, Dean of Sciences, Canada
College, 4200 Farmhill Rd., Redwood, CA 94061

OFFICE: (415)364-1212 Ext. 291

Laurie O'Connor, Dept. of Chem., Chabot College,
25555 Hesperian Blvd., Hayward, CA 94545

OFFICE: (415)786-6600

Local Arrangements Co-chair: Dr. O.H. Bezirjian and Dr. Lydia
Bearden, Marin College OFFICE: (415)485-9513

FAX: (415)485-0135 HOME: (415)929-7592 (Bezirjian)

Exhibits Coordinator: Dr. Manus Monroe, Marin College

OFFICE: (415) 485-9513 FAX: (415) 485-0135

118th CONFERENCE(Midwestern Region)

May 1992 - Henry Ford Community College, 5101 Evergreen
Dearborn, MI 48128-1495 (313) 271-2750

Program Theme: T.B.A.

Program Chair: Joseph Maguire, Henry Ford Community College

OFFICE: (313)845-9632

Local Arrangements Chair: Joe Muscarella, Henry Ford Comm. College

OFFICE: (313)845-9632

119th CONFERENCE

(In conjunction with the 12th Biennial Conference on Chemical Education)

August 2-6, 1992 - University of California, Davis, CA

NOTE: SPECIAL REGISTRATION AND EXHIBIT FEES IN EFFECT FOR THIS MEETING.

* Indicates new or revised information

October 10, 1990

1992-93 ACADEMIC YEAR

120th CONFERENCE(Southern Region)

October 2-3, 1992-Amarillo College, P.O. Box 447, Amarillo, TX 79178
(806) 376-5111, FAX (806) 371-5370

ADDRESS FOR PACKAGES: 24th and Jackson, Amarillo, TX. 79109

Program Theme: TBA

Program Chair: A.G. (Jerry) Foster, Physical Science Dept.
Amarillo College
(806) 371-5327

Local Arrangements Chair:

Peggy W. Alley, Physical Science Dept.
Amarillo College
(806) 371-5334 or 371-5333

Exhibits Coordinator:

Mary Graff, Physical Science Dept.
Amarillo College
(806) 371-5326

121st CONFERENCE(Western Region)

Nov. 13-14, 1992-Mt. Hood Community College, 26000 S.E. Stark St.
Gresham, OR 97030 (503) 667-6422 FAX (503) 667-7389

Program Theme: Chemistry and the Environment-Health and Hazards:
Living in the 21st Century

Program Chair: Richard Bolesta, Science Dept., Mt. Hood Comm. Coll.
OFFICE: (503) 667-7361 HOME: (503) 665-6353

Local Arrangements Chair:

Gil Albelo, Science Dept., Mt. Hood Comm. Coll.
OFFICE: (503) 667-7365 HOME: (503) 666-3276

Exhibits Coordinator:

Paul Sunset
HOME: (503) 253-5317

122nd CONFERENCE(Midwestern Region)

Apr. 16-17, 1993-Normandale Community College, 9700 France Ave. South,
Bloomington, MN 55431 (612) 830-9300

Contact Person: Warren Eidsness

{March 13-18, 1994 ACS National Meeting and 5th Chemical Congress of
North America, San Diego}

All 2YC₃ members are urged to make suggestions regarding meeting sites,
program personnel, themes and programming suggestions, in writing, to
Executive Committee members and Program Chairs of the specific
conferences. 2YC₃ can function more effectively to serve all community
colleges when all persons participate. We welcome your suggestions.

October 26, 1990

Dear 2YC3 colleague:

I have been asked to strictly confine my ACS reports to two-year college activities. The following is a summary of my office's work. As you see, the Office of College Chemistry (OCC) is highly involved in two-year college interests. Even those programs that ostensibly do not appear to be specifically for two-year colleges, in fact have some connection with or benefit for the two-year institutions.

THE 80s AND 90s

The 1980s was a time which emphasized science education for the pre-college students, i.e., high school and pre-high. During that decade the Office of College Chemistry worked long and hard, but kept a low profile for OCC was serving the "other" educational populations. Who are these people served by OCC?

- Undergraduate chemistry students who have been considered secondary to their compatriots in graduate or post-graduate programs;
- Undergraduates at two-year colleges, including minorities and immigrants, who will comprise an increasing portion of our future workforce, and older students, who are reentering the workforce;
- Students in chemistry-based laboratory technology programs; and
- Non-science students who require a chemistry background to be successful in the technical marketplace.

In addition, the OCC activities have been considered less than "sexy" because the work stresses nurturing and teaching, rather than the traditional science community emphasis on research. But armed with new data about population demographics and what many consider to be a failing system for producing quality science professionals, the OCC's activities have been receiving more attention. The OCC activities seem to be the personal side of Patricia Cross's, professor of education at the University of California at Berkeley, theory. She says, "The biggest and most long-lasting reforms of undergraduate education will come when individual faculty or small groups of instructors adopt the view of themselves as reformers within their immediate sphere of influence, the classes they teach every day." OCC foresees that steadfast pursuit of its mission, along with open communication about the roles of all members of the undergraduate science community, can bring about real success in improving the quality of college chemistry education in the 1990s.

To address these increasingly important college chemistry issues, the OCC is involved in activities in the following areas:

1. Two-year college chemistry and chemical technology programs, and the unique role of two-year colleges as teaching institutions in a field that has traditionally emphasized research.
2. Preprofessional support for undergraduate chemistry students through the Student Affiliates program.
3. Career publications which offer information for many different sectors of science student populations.
4. Programs targeted to addressing the special needs of predominant minority institutions.

5. Science literacy for non-science majors.

The OCC addresses these issues through a variety of activities.

1. Two-year college chemistry programs (T. Nally 202-872-4587)
 - a. "2YC Distillate" and other publications
 - b. Liaison to Subcommittee E of SOCED to implement the Chemistry Technology Program Approval Service (CTPAS)
 - c. Liaison to "Technicians Today" magazine
 - d. 2YC3 Conferences
 - e. Liaison for SOCED Subcommittee B
 - f. College Chemistry Consulting Service (C3S)
 - g. Services for MSIP schools

2. Student Affiliates (L. Ross 202-872-6166)
 - a. Innovative Activity Grants
 - b. Outstanding and Commendable Chapters
 - c. National Student Affiliates Poster Session
 - d. Speakers and Tours
 - e. Internship Directory
 - f. Faculty Advisor Manual
 - g. History of Chemical Education Exhibit
 - h. Enhanced program in 1991 (e.g., "In Chemistry")

3. Career Publications (R. Brune 202-872-6168)
 - a. Publications distributed to students and the general public
 - b. Develop, revise, and publish materials
 - c. Write career articles for the SA "In Chemistry"
 - d. Career fair for MIST network
 - e. Teacher's guide for the MSIP videotape

4. Science Literacy (T. Nally 202-872-4587)
 - "Chemistry in Context"

The pages that follow provide brief descriptions of most of the OCC activities and programs. As you can see, we keep very busy, but we always are eager to assist you. Please do not hesitate to phone us at the numbers listed.

Summary of OCC Activities and Programs

I. Two-Year Colleges (2YC)

A. **Publications** – The OCC offers these publications free of charge

- “Critical Issues in Two-Year College Chemistry” (1985)
- “Guidelines for Chemistry and Chemical Technology Programs in Two-Year Colleges”(1988)
- “2YC Distillate”, a newsletter for 2YC faculty. One more issue will be distributed in December 1989, and then the “2YC Distillate” becomes part of the new Education Division newsletter entitled “ChemUnity News.”

B. **Chemical Technology Program Approval Service (CTPAS)** – The CTPAS was established by the ACS Board of Directors in April 1990, in response to the SOCED “Tomorrow” report recommendation. The CTPAS is similar to the Committee on Professional Training’s approval system for four-year college chemistry programs. CTPAS is also known as SOCED Subcommittee E. The service is just being organized. It is anticipated that reviews of schools will begin this time next year. Harry Hajian of the Community College of Rhode Island is Subcommittee E chairman.

C. **Liaison with “Technicians Today” magazine** – “Technicians Today” is a magazine of the ACS Committee on Technician Activities. The magazine is the first of its kind, developed for and by chemical technicians. At present, we are seeking outside funding to print two issues a year. The editor is Elizabeth Crawford-Harrison of Union Carbide in WVA.

D. **Unofficial Liaison with DivCHED’s 2YC3** – DivCHED’s 2YC3 is the committee that runs the four yearly regional “Two-Year College Chemistry Conferences”. We have provided unofficial support to this group, including the development and publication of the agendas for each of these regional conferences. 2YC3 has partially subsidized the “2YC Distillate.”

E. **Liaison with SOCED Subcommittee B** – Provide liaison support for this subcommittee, which is the college chemistry subcommittee of SOCED. Sub B oversees the OCC operation. Uni Susskind of Oakland Community College (MI) is the chairwoman of Sub B.

F. **College Chemistry Consultants Service (C3S)** – C3S is a joint program of DivCHED and SOCED. It is comprised of 32 experts with expertise in hazardous waste handling, curriculum development, faculty enhancement, proposal writing, recruiting of minorities, emergency preparedness, and many other subjects. The C3S consultants are invited by schools (two- and four-year) to visit the institution and conduct an assessment of the operation. The cost of a visit is \$150/day, \$100 for the consultant report, and travel, room, and board.

G. **C3S for Two-Year Colleges** – In lieu of the school hiring a consultant, OCC funds a few visits to two-year colleges. These visits were established in response to the “Tomorrow” report recommendation that a consultation program be established for two-year colleges, which often have very tight budget constraints.

- H. **C3S for MSIP Schools** – This C3S program was financed under a U.S. Department of Education MSIP (Minority Science Improvement Program) grant. For the five years it was funded, C3S made over 80 visits to MSIP schools. Approximately half of these institutions are two-year colleges. A new proposal has been submitted to MSIP for funding in 1991-1992. The new proposal includes the C3S visits and it adds to it the establishment of Student Affiliate chapters as student retention activities. It also adds to the C3S visit the establishment of partnerships at five demonstration sites between the MSIP schools, ACS local sections, and private and public sector workplaces.
- I. **MSIP Videotape** – “Working It Out” is a ten-minute videotape designed especially for African-American high school students. It conveys the message that sciences present many rewarding career opportunities for minorities and that minorities do achieve in these careers. At present we are sending out review copies of the tape and are asking people to duplicate the review tape and then return it. We recently advertised in the October 22 issue of *Chemical & Engineering News* that the tape was available for \$10.00, prepaid.
- II. **Student Affiliates (SA)** – Approximately 50 two-year colleges have active SA chapters. The 1991 2YC3 chairman-elect, Ed Heath, is recognized as an outstanding SA faculty advisor with a chapter that is one of the models for the 850 other chapters.
- A. **Innovative Activities Grants** – The IAG program was established in 1978 to encourage chapters to investigate questions relevant to the many applications and aspects of chemistry (e.g., laboratory and field research, education, community service, and industrial applications.) Student Affiliates chapters submit proposals on forms that are sent to Faculty Advisors in the Spring. Each year \$2000 is awarded. Grants must be matched from funds from other sources and range in amount from \$50–\$250. Chapters awarded IAGs are required to submit mid-year and final reports on their projects.
- B. **Outstanding and Commendable Chapter Awards** – Chapters are chosen for recognition as outstanding or commendable on the basis of their annual reports. The following criteria are considered when determining the overall rating of the reports: student involvement, time devoted to projects, social activities, and chapter size. Chapters receiving outstanding or commendable recognition are announced in *Chemical & Engineering News* and in *the pFilter*. Last year, Hewlett-Packard generously donated HP-42S scientific calculators to the Faculty Advisors of award-winning chapters.
- C. **National Student Affiliates Poster Session** – The ACS Student Affiliates Poster Session at Spring ACS National Meetings gives affiliates the opportunity to present their research to colleagues and professionals in industry and in the academic community. A reception for Student Affiliates helps affiliates to make professional contacts and unwind. The next poster session will be on April 15, 1991 in Atlanta, Georgia. The deadline for receipt of abstracts is in December 1990. Abstracts are published. At the Atlanta meeting, a poster session also will be held for SA chapters to describe their activities.

D. Publications

- **Speakers and Tours** – Directory published every other year of Speakers who have volunteered to make presentations to Student Affiliates chapters. The new directory is in production and will be mailed, when completed, to all Faculty Advisors.
- **Internship Directory** – Directory of internships and co-ops published every other year. The new edition will be published next month and sent to all SAs.
- **Faculty Advisor Manual** – This publication is an outgrowth of a recommendation of the 1989 Faculty Advisor Workshop. The 1990 Workshop was devoted to its preparation. This easily updated looseleaf manual will tell Faculty Advisors everything they need to know about the Student Affiliates Program—from chartering chapters to planning fundraises. Publication is scheduled for 1991.

E. **History of Chemical Education Exhibit** – To commemorate the 50th anniversary of the founding of the ACS Student Affiliates Program, the ACS Education Division commissioned a major exhibit on the history of chemical education in the United States. Produced in cooperation with the Beckman Center for the History of Chemistry, the exhibit opened at the 193rd National Meeting of the ACS on April 5, 1987. The exhibit chronicles the relationship between chemical education and the professions pursued by students of chemistry. The traveling exhibit is available free-of-charge and is usually displayed for one month at each site. Exhibitors are responsible for the cost of shipping the exhibit to its next destination and assume responsibility for the condition of the exhibit. The exhibit has been on display at two- and four-year colleges, research universities, and science museums.

F. **Enhanced Program in 1991** – In an effort to recognize the SA program, the Education Division has prepared a budget of \$91K to enhance the SA activities in 1991. The additional monies will bring the SA budget to almost a quarter of a million dollars. The monies will underwrite the cost of a five-issue, 24-page, glossy SA magazine entitled "In Chemistry". It also will finance direct mail campaigns to students, concentrating on research universities, MSIP schools, and 2Y colleges, where we have fewer SA members. Faculty advisors of SA chapters also will benefit from the enhanced programming with workshops for the advisors.

III. Career Publications

A. **Distribution** – The career publications program distributes an average of 3,000 items each month. Single copies of publications are free. The career titles are:

Title	Price	Bulk (50 or more)
Careers in Chemistry poster	\$1.00	\$.75
A Career as a Chemical Technician	.50	.38
Careers in Chemistry: Questions & Answers	1.50	1.35
Chemical Careers in the Life Sciences	.50	.38
I Know You're a Chemist, But What Do You Do?	.50	.38
Futures Through Chemistry: Charting a Course	1.00	.90
Current Year Employment Outlook	.50	.38
Complete set	4.00	-

Other materials also are distributed: Bumper stickers, posters, Safety in the High School, Opportunities in Chemistry—Executive Summary, and individual back issues of Chem Matters. Other items are sent out by ACS Sales and Distribution and the Department of Public Communication.

Most of the materials are sent to students, either directly or through members holding career fairs or giving talks on careers in chemistry.

- B. **"In Chemistry"** – The staff also produces career articles for the SA magazine. The articles will be a significant portion of the publication's content.
- C. **MIST Network** – The careers program is also coordinating the Minorities in Science and Technology Network career fair for DC area high school and middle school students. The fair is scheduled for next March. A "how to" booklet on planning career fairs will be developed from this activity.
- D. **MSIP Video** – A teacher's guide to "Working It Out" was developed by the career program's staff.

IV. **Chemistry in Context**

The *Chemistry in Context* project is about scientific literacy. It is about informing undergraduate college students of the applicability of scientific theory and understanding to their many other areas of interest and understanding. Truman Schwartz, the project director, says that through *Chemistry in Context* "we hope to motivate the students to learn some of the fundamental concepts of chemistry, empower them to locate information and address technical issues, and develop the analytical skills and critical judgement necessary to assess risks and benefits." *Chemistry in Context* is an attempt to address a need through new, non-traditional, and innovative approaches to chemical education. It is an attempt to include people in science who otherwise may not have considered its value for their aspirations.

At present, *Chemistry in Context* is divided into three modules: Air, Water, and Energy. These three modules comprise the first nine chapters. At this point there is no determination of what will happen with a planned Materials module (it may be dropped and reorganized into a biochemistry module) or case studies related to topics in the first three modules. Truman is currently testing the first four chapters of the curriculum in his courses at Macalester College in MN; and Conrad Stanitski, one of the other co-authors is doing the same at Mt. Union College in OH. Diane Bunce at The Catholic University of America here in DC will be testing it in her classes next semester.

It is thought that the general field tests will begin next academic year. Field test sites will include all types of higher education institutions. Projected completion date for this project is 1992 but some people are not optimistic that the deadline will be realized. There is certainly a great deal of revision required before final production. Editorial and other *Chemistry in Context* issues will be discussed at the Advisory Board meeting here in DC Nov. 16,17,18.

10/26/90

CONFERENCE PROGRAM

112th TWO-YEAR COLLEGE CHEMISTRY CONFERENCE

Atlantic Community College, Black Horse Pike (Route 322), Mays Landing, NJ 08330

Friday, November 16 and Saturday, November 17, 1990

- Program Theme:** Curriculum, Scholarship, Grants (or how to deliver a better chemical education under today's budget constraints).
- Program Chair:** Alla O. Romano, New York City Technical College, 300 Jay Street, Brooklyn, New York, 11201 (718) 643-8242
- Local Arrangements Co-Chairs and Exhibits Coordinators:** Edmund J. Zoranski (609) 343-5023 and Donald A. Hurff (609) 343-5012
Chemistry Department, Atlantic Community College

Friday, November 16, 1990

- | | | |
|---------------|---|-----------------|
| 9:00 - 10:00 | Registration, Exhibits, Coffee | K 122, 134, 135 |
| 10:00 - 11:00 | 2YC ₃ Advisory Board Meeting
Dr. Elliott Greenberg, Chair, presiding.
<i>Open to all interested persons.</i> | H 119 |
| 11:00 - 11:15 | Opening Ceremonies - Welcome:
Dr. Elliott Greenberg, Chair COCTYC and
Dr. John May, Dean of Academics,
Atlantic Community College | H 116 |
| 11:15 - 12:00 | <i>We've Grown Up, Is It Still a Good School?</i>
Dr. John Clevenger, Truckee Meadows
Community College | H 116 |
| 12:00 - 1:30 | Lunch, on your own. College cafeteria or
area restaurants. | |
| 1:30 - 2:15 | <i>The Future of Chemical Technology in an Urban
Technical College</i> , Onofrio Gaglione, New York
City Technical College | H 116 |
| 2:15 - 3:00 | <i>Building Educational Bridges for the Future:
Meeting National Needs</i> , Dr. Nancy Tooney,
Assistant Provost, Polytechnic Institute of
New York | H 116 |
| 3:00 - 3:45 | <i>To Cover the Syllabus or to Teach Chemistry</i>
Margot K. Schumm, Montgomery College | H 116 |
| 3:45 - 4:00 | Juice or Coffee Break, and Exhibits | K 135 |
| 4:00 - 4:45 | <i>Successful Grantsmanship in Sciences at
Prince George Community College</i> , Vera Zdravkovich,
Prince George Community College | H 116 |

CONFERENCE PROGRAM

4:45 - 6:00	Free Time - Shuttle Service to Motels
6:00 - 7:00	Social Hour
7:00 - 9:00	BANQUET AND KEYNOTE ADDRESS <i>The Really Big Classroom, Teaching the Public,</i> Dr. E. James Bradford, Program Manager National Chemistry Week, American Chemical Society

Saturday, November 17, 1990

8:30 - 9:00	Coffee and Exhibits	K 135
9:00 - 10:15	<i>Grants and Grant Writing for the Two-Year College,</i> Dr. Jody Chase, Truckee Meadows Community College	H 116
10:15 - 10:50	<i>Strengthening Chemistry - Biology Connection,</i> Dr. Annette Schaeffer, N.Y.C. Technical College	H 116
10:50 - 11:25	<i>Chemicals of the Past and Future Coal Fuels,</i> Peter Armstrong, New York University	H 116
11:25 - 12:00	<i>Integrating Computers into the General Chemistry Laboratory,</i> Dr. Victor Strozak, N.Y.C. Technical College	H 116
12:00 - 1:30	Lunch, on your own, at area restaurants	
1:30 - 3:00	<i>Fundamentals of Effective Demonstrations,</i> David Katz, Community College of Philadelphia	H 116
3:00 - 4:30	<i>OSHA Laboratory Safety Regulations,</i> Dr. Dennis Graham, Environmental Science Coordinator, Scott Community College	H 116
4:30 - 4:45	Closing Remarks	H 116

All Rooms are in either: H Building - Nursing Education Facility
K Building - Information Technology Services