

Chemistry Outlook

An Activity of
The Committee on Chemistry in the Two-Year Colleges
Division of Chemical Education
American Chemical Society



Sonja E. Davison, 2004 Chair

7

N

14.0067
Nitrogen

Notes From The Chair

Sonja E. Davison
Tarrant County College
Hurst, TX 76054

Hello to everyone,

I hope you are having a smooth and productive spring semester. I am delighted to begin my term as 2004 Chair of 2YC₃. The conference calendar is an exciting one, and I look forward to all the scheduled meetings.

Our organization has been an important part of my life since the very beginning of my two-year-college teaching career. In fact, I attended a 2YC₃ conference (at Ann Cartwright's invitation) two months before I was hired here at Tarrant County College. That was almost fifteen years ago. I consider myself lucky to have always been aware of the organization as a wonderful resource for all aspects of my efforts as a chemistry educator.

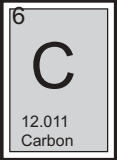
During 2003, I performed my duties as Chair Elect and attended meetings in Louisiana, Alabama, Kentucky and Massachusetts. At each meeting, I met people who were attending a 2YC₃ conference for the first time and people who had been members for 30 years or more. Whether they were newcomers or old-timers, they all found something new and exciting to learn or try. Through all the years and all the conferences, I still manage to have an epiphany at each meeting. I gain some insight (sometimes a small one, sometimes a major revelation) that changes me and, I think, makes me a better teacher.

continued on page 2

INSIDE THIS ISSUE

Vol. 2004 - 1

1	Notes from the Chair
2	Conference Calendar
3	2004 COCTYC and Support Staff
4-7	166 th Conference Program
8	Articles: "Undergraduate Transitions", "ACS meetings", "Chemistry Workshops."
9	Future Conferences
10	Call for Applications, Chair-Elect
11	Advertisers



Conference Calendar

2004 - 2005 Academic Year

166th Conference (Western)

March 26-27, 2004 Concordia University
<http://hometown.aol.com/Concordia2YC3/main.html>
Irvine, California
Contact: John V. Kenkel
Email: jkenkel@southeast.edu
ACS, Anaheim, CA, March 28 - April 1, 2004

167th Conference (Midwestern)

July 18-22, 2004 Biennial Conference on Chemical
Education, BCCE, Iowa State U., IA
<http://www.chem.iastate.edu/bcce/>
Contact: John V. Kenkel
Email: jkenkel@southeast.edu

168th Conference (Western)

October 14 - 16, 2004 Leavensworth, WA
Contact: Mary O'Brien
Email: mobrien@edcc.ctc.edu
Edmonds Community College

169th Conference (South Eastern)

November 10-13, 2004 SE Regional ACS meeting
Research Triangle Park Area, North Carolina
Contact: Clarita Bhatt
Email: ccbhat@aol.com

170th Conference (Western)

March 11-12, 2005 Palomar College, San Marcos, CA
Contact: Bettina Heinz
Email: bheinz@palomar.edu
ACS - San Diego, CA, March 13 - 17, 2005

171th Conference (Eastern)

October 14 -15, 2005 Bucks County Community
College, PA
Contact: Michaeleen Lee
Email: leem@storm.bucks.edu

Please check the web for information on future
meetings! <http://2yc3.org> or
<http://2yc3.vinu.edu/>

continued from page 1

This year, I hope that I will see new faces and familiar faces at the conferences and that everyone can benefit from the excellent programs on the agenda. Just as importantly, the interaction with other educators from all over the country can provide such inspiration ... I hate to think so many of our colleagues miss the opportunity.

Our first chance for an epiphany arrives in March. John Kenkel is the Program Chair for the 166th Conference at Concordia University in Irvine, California. The conference theme is "Chemistry Education: New Ideas and their Implementation" (with the sub-title "The Conference That Almost Wasn't"). We appreciate John's stepping forward and putting together an exciting program.

Hope to see you there!

Information on our future conferences can be found on page 9. Below is some information on a conference in the far future. It will be here before you know it!

171th 2YC₃ Conference (Eastern)

The 171th conference will be held on October 14-15, 2005. The theme of the conference is "From the Past comes the Future." This joint conference will be held with the Bucks County Science Teachers Association (K-College). The conference will also have a contingent from the four-year program with a seamless transfer in Science Education. A tour of the Chemical Heritage Foundation in downtown Philadelphia is included on Friday afternoon. The banquet will follow at that location.

The program chair, Michaeleen Lee, leem@storm.bucks.edu, invites presentations that highlight innovations you have tried and that worked in your classroom.

2004 COCTYC AND SUPPORT STAFF
Division of Chemical Education, Inc
American Chemical Society
2004 Roster of Committee Members

Chair

Sonja Davison, Tarrant County College, Northeast
828 Harwood Rd., Hurst, TX 76054
Office: (817) 515-6346
Home: (817) 485-7833 Email: sonja.davison@tccd.edu

Chair-Elect

Ed Kremer, Kansas City Kansas Community College
7250 State Ave, Kansas City, KS 66112
Office: (913)288-7111 or 7631
Email: ekremer@toto.net

Treasurer/ College Sponsors

Rick Bolesta, Mt. Hood Community College
26000 SE Stark St., Gresham, OR 97030
Office: (503) 491-7361 Fax: (503) 491-7481
Home: (503) 665-6353 Email: bolestar@mhcc.edu

Membership Chair

Dolores C. Aquino, San Jacinto College Central
P.O. Box 2007, Pasadena, TX 77501-2007
Office: (281) 476-1501 ext. 1663 Fax: (281) 478-2757
Home: (713) 668-8215 Email: dcaquino2000@cs.com

Industrial Sponsor Chair

Michaeleen Lee, Bucks County Community College
275 Swamp Road, Newtown, PA 18940
Office: (215) 968-8364 Fax: (215) 504-8520
Email: leem@storm.bucks.edu

Assistant Ind. Sponsors Chair

Mike Canestaro, Sinclair Community College
Chair, Chemistry, Geology & Geography
444 West Third St., Dayton, OH 45402
Office: (937) 512-2322 Fax: (937) 512-5007
Email: mcanesta@sinclair.edu

Newsletter Editor

Carol Handy, Portland Community College
P.O. Box 19000, Portland, OR 97280-0990
Office: (503) 977-8068 Fax: (503) 977-8020
Home: (503) 452-0327 Email: carolhandy@comcast.net
or chandy@pcc.edu

Immediate Past Chair

Bill Haley, San Antonio College
1300 San Pedro Ave, San Antonio TX 78212-4201
Office: (210) 733-2712 Fax: (210) 785-6402
Home: (210) 496-3086 Email: whaley@accd.edu

Past Chairs (Members of COCTYC)

Clarita Bhat, Shoreline Community College
16101 Greenwood Ave North, Shoreline, WA 98133
Home: (425) 745-9550 Email: ccbhat@aol.com

Frank Koch, Bismarck State College
1500 Edwards Ave., Bismarck, ND 58501
Office: (701) 224-5423 Fax: 701-224-5550
Home: (701) 255-0280 Email: Frank.Koch@bsc.nodak.edu

2YC₃ World Wide Web Page: <http://2yc3.org> or <http://2yc3.vinu.edu/>, Jay Bardole, WebMaster

2YC₃/Division of Chemical Education Joint Membership Form

This is a special offer for 2YC₃ members who are not already members of the Division of Chemical Education. The dues for 2YC₃ are \$15.00 and the dues for the Division of Chemical Education are \$20.00. If you are not now a member of the Division of Chemical Education, you can join the Division and renew your membership with 2YC₃ for only \$30.00, a savings of \$5.00.

Renew my 2YC₃ membership ____ I wish to join DivCHED as: ____ a Member (ACS Members only)
____ an Affiliate (non ACS Members)*

*affiliates have all membership privileges except voting and holding elective office

Your Name: _____

Home Address: _____
Street City, State Zip Code

Work Address: _____
Street City, State Zip Code

College Phone: _____ Email: _____

Send 2YC₃ Newsletter and CHED Newsletter to Home _____ Work _____

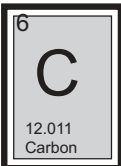
Send ACS Member Form Yes _____ No _____

2YC₃ Membership Information: Are you a
____ Two-Year College Teacher? _____ Four-Year College Teacher?
____ High School Teacher? _____ Other

Please send your check, payable to 2YC₃, for \$15 (2YC₃ only) or \$30 (joint membership) to: Dolores C. Aquino, San Jacinto College Central, 8060 Spencer Highway, Pasadena, TX 77501-2007

166th 2YC₃ Conference
“Chemistry Education: New Ideas and Their Implementation”
March 26 - 27, 2004
Concordia University
1530 Concordia West, Irvine, California 92612

<http://hometown.aol.com/Concordia2YC3/main.html>



Conference Program

Program Chair: John Kenkel, Southeast Community College, Lincoln, Nebraska.

Phone: (402) 437-2485, Email: jkenkel@southeast.edu

Exhibits and Local Arrangements: John Kenney, Concordia University, Irvine, CA

Phone: (949) 854-8002, Email: john.kenney@cui.edu

Check the conference website for abstracts and possible changes in the program.

Friday, March 26

- | | |
|---------------|---|
| 8:00 - 9:30 | Registration and Continental Breakfast |
| 8:00 - 5:00 | Exhibits |
| 9:30 - 9:45 | Welcome and Opening Remarks |
| 9:45 - 10:45 | Keynote Address
Paul Kelter, Director of General Chemistry, University of Illinois - Urbana-Champaign
General Chemistry: New Ideas and Their Implementation |
| 10:45 - 11:00 | Morning Break - Exhibits and Snacks |
| 11:00 - 12:00 | Tom Greenbowe, General Chemistry Coordinator, Iowa State University, Ames, Iowa.
Improving Students' Understanding of Chemistry by Incorporating Inquiry.
The Science Writing Heuristic, and Web-Based Computer Simulations in General Chemistry. |
| 12:00 - 1:30 | Lunch Break, Exhibits
2YC ₃ General Membership Meeting |
| 1:30 - 2:30 | Joan Lebsack, Chemistry Faculty, Fullerton College, Fullerton, California
Interactive Investigations: Demos Kicked-up a Notch |
| 2:30 - 2:45 | Break, Exhibits |
| 2:45 - 3:45 | Cecil Dybowski, University of Delaware
A New Course on the History of Physical Chemistry |

- 3:45 - 4:00 Break, Exhibits
- 4:00 - 5:00 Janice Chadwick, Chemistry Faculty, Fullerton College, Fullerton, California
Using a Tablet PC in a Hybrid General Chemistry Course

Banquet, 6:30 - 8:30

Speaker:

Dr. Charles Casey, President, American Chemical Society
Professor of Chemistry, University of Wisconsin, Madison

Title of talk: "Challenges for Chemists"

Saturday, March 27

- 8:00 - 2:00 Registration and Exhibits
- 7:30 - 9:30 Continental Breakfast
- 8:00 - 9:00 Keynote Address
Glenn Crosby, Washington State University
New Wine in New Bottles: The Challenge of Teaching Modern Chemistry
- 9:00 - 9:30 Liz Dorland, National Science Foundation
Current Opportunities at NSF for Two-Year Colleges
- 9:30 - 9:45 Break - Exhibits, Refreshments
- 9:45 - 11:45 Concurrent Sessions

Session 1

- 9:45 - 11:45 Workshop led by Timothy Su, Community College of San Francisco
Calibrated Peer Review

Session 2

- 9:45 - 10:15 David Brown and Treasure Suchek, Southwestern College, Chula Vista, California
Establishing a Chemical Technology Program at Southwestern College
- 10:15 - 10:45 Dick Gaglione, Community College of Southern Nevada
David Brown, Southwestern College
Ken Chapman, Cardinal Workforce Developers, LLC
The ACS College Chemistry Consultant Service and the Southwestern College Chemical Technology Program
- 10:45 - 11:15 Charlie Newman, Mount San Antonio College
Establishing a Chemical Technology Program at Mount San Antonio College
- 11:15 - 11:45 Renee Madyun, Los Angeles Trade-Tech College
The Chemical Technology Program at LA Trade-Tech College
- 11:45 - 1:00 Lunch Break
- 1:00 - 1:30 Peter R. Pascucci and Claire A. Miller, Community College of Denver, Denver, Colorado
Student Mini-Research Laboratory Projects
- 1:30 - 2:00 Iraj Nejad, Mount San Antonio College, Walnut, California
Incorporating Molecular Modeling into General Chemistry

2:00 - 2:30	Walt Volland, Spokane Community College, Spokane, Washington Using the Internet: From Complete Courses to Course Enrichment
2:30 - 2:45	Refreshment Break
2:45 - 3:45	Jimmy Reeves, University of North Carolina, Wilmington Solving the Laboratory Dilemma in Distance Learning General Chemistry
3:45 - 4:00	Closing Remarks

Saturday Evening - Division of Chemical Education Dinner. This is a dinner traditionally held prior to the start of the ACS meeting at a local restaurant. It is an ACS-sponsored "event." Please check the ACS web site or C&E News for ticket information. ACS membership, DivCHED membership, and ACS meeting registration are NOT required.

AIRPORT, HOTEL, AND TRANSPORTATION INFORMATION
166th 2YC₃ Conference, Concordia University, Irvine, California

Lodging:

The conference hotel is the Crowne Plaza Hotel, 17941 Von Karman Avenue, Irvine, CA 92614. The Hotel phone number is 949-863-1999. The conference rate is \$78.00 per night for Thursday (3/25), Friday (3/26), and Saturday (3/27) (single/double occupancy). For a suite on the Club Floor, the rate is \$108.00 per night for Thursday, Friday, and Saturday. Please mention 2YC₃ ACS Concordia when making reservations. This hotel has complimentary shuttle service to and from the John Wayne Airport. The hotel is adjacent to the 405 freeway a short distance south from the airport. You must make reservations by March 5, 2004, in order to get the conference rate.

Airport:

The recommended airport is the John Wayne Airport in Santa Ana (also known as the Orange County Airport). It is very close to Concordia University and to the Crowne Plaza Hotel.

Directions:

To get to the hotel from the airport, you may take the complimentary shuttle. If you choose to rent a car, exit the airport on Airport Way. Stay straight to get onto Michelson Drive. Turn left onto Von Karman Ave. The hotel address is 17941 Von Karman Ave.

To get to Concordia University from the airport or from the hotel, get on the 405 freeway going south. Exit the 405 Freeway onto University Drive, turning right (west). Proceed on University Drive to Ridgeline, then turn left on Ridgeline, then immediately turn right onto Concordia West. Tell the gate attendant you are with the 2YC₃ Conference and you will be given a complimentary parking pass and directed to the parking area. For those without transportation, a Concordia University van will be available to shuttle participants between the hotel and the University.

To get to the hotel from the 405 freeway, exit at MacArthur Boulevard right, turn right on Main Street, then right on Von Karman. The hotel is at 17941 Von Karman.

To get to Concordia University from points south, exit the 405 freeway onto University Drive, turning left (west). Then follow above directions.

Conference Pre-Registration

166th TWO-YEAR COLLEGE CHEMISTRY CONSORTIUM CONFERENCE (2YC₃)

Concordia University

Irvine, CA 92612

March 26-27, 2004

Name _____ Institution _____

Institution Address _____

City _____ State _____ Zip _____

Phone Number(s) _____

Email Address(es) _____

I teach at a High School _____ 2-Year College _____ 4-Year College _____

Conference Fees

Registration (current 2YC ₃ members) @ \$20.00*	\$ _____
Registration (includes 2YC ₃ membership) @ \$35.00	\$ _____
Friday Evening Banquet @ \$15.00	\$ _____
Friday Lunch @ \$6.50 ea**	\$ _____
Saturday Lunch @ 6.50 ea**	\$ _____
Total	\$ _____

*There is no conference fee for high school teachers and students.

**Lunch in the University cafeteria is recommended because off-campus restaurants are not nearby.

Meals

A continental breakfast will be provided both days. Lunch will be available in on the Concordia campus on both days of the conference. The Mexican fiesta banquet on Friday evening, March 26, will be preceded by a wine and cheese social on the student union patio. Let us know if you would like a vegetarian option for the banquet. Check here _____ for vegetarian option. Please make banquet reservations no later than March 10, 2004 to facilitate planning.

Please send your registration form and check to:

Dr. John W. Kenney, III
166th 2YC₃
Concordia University
1530 Concordia West
Irvine, CA 92612-3299

Make Checks Payable to: Concordia University / 2YC₃

Undergraduate Transitions: Enhancing Student Success

Are you interested in resources and strategies that facilitate student transfer and support students transitioning between institutions? If so, you won't want to miss "Undergraduate Student Transfer: Addressing the Challenges." This program, which will be part of the 2004 Biennial Conference on Chemical Education (www.chem.iastate.edu/bcce), includes a keynote presentation by George Boggs, President and CEO of the American Association of Community Colleges, poster session, and symposium with panel discussions.

The Society Committee on Education (SOCED), Committee on Minority Affairs (CMA), and Committee on Technician Affairs (CTA) are the program sponsors. Questions should be directed to Jodi Wesemann (j_wesemann@acs.org or 1-800-227-5558 x4587).

Chemistry and Camaraderie for Two-Year College Students

By Emily Thompson

Two-year college students can benefit from attending American Chemical Society national meetings, which offer a wide variety of educational and exciting opportunities. "I learned so much during the three days at the meeting. The workshops, lectures, and research poster sessions gave me so many ideas that will help me professionally. The whole experience opened a new world to me," says Steven Scott, a student at the University of Pittsburgh at Titusville who attended the 225th ACS National Meeting in New Orleans.

The ACS Committee on Education's Task Force on Undergraduate Programming plans two days of events that all undergraduate students can enjoy, including career workshops, symposia on topics of interest to students, and Student Affiliates (SAACS) chapter development activities. The Chem Demo Exchange Using Household Chemicals offers SAACS chapters the chance to showcase the demonstrations they perform in their communities while also learning from each other. SAACS can also present a poster about their chapter activities during the Society-wide poster session, Sci-Mix.

ACS national meetings bring students and professionals together to meet and share ideas. Kathryn Hertzner, a sophomore at

Illinois Valley Community College in Oglesby, wants to attend this year's national meeting in Anaheim "because it will allow me to interact with others and learn more about the world of chemistry." The ACS Corporation Associates: Up Close and Personal reception provides an opportunity for students to meet industry professionals and discuss careers in industry.

Beyond the immediate advantages of attending the national meeting, two-year college students benefit in another way. Jim Archer, Professor of Chemistry at Northeast Texas Community College in Mount Pleasant, Texas thinks that, "Students at two year colleges tend to be first generation college students with little or no knowledge of what it means to be a professional and be involved in a professional society. Affiliation with the American Chemical Society and attending its local and national meetings introduces students to activities that they will be involved with the rest of their lives."

For more information on the Student Affiliates Program, send an e-mail to SAprogram@acs.org.

ACS 2004 Chemistry Workshops

Have you been trying or considering an activity-based, student-centered approach to teaching your general chemistry course? The new textbook, *Chemistry* (a project of the American Chemical Society), is designed to support and reinforce this approach. The textbook is part of a new initiative to re-think and re-work the general chemistry course that too many students perceive as a barrier rather than a pathway to their future. *Chemistry* includes traditional chemistry concepts in a non-traditional order using pedagogy built on active learning and group interactions. The concepts and principles in *Chemistry* are developed as often as possible by the analysis of data obtained in classroom activities. Because the approach requires more effort on the part of both students and instructors and what we are trying to accomplish may be unfamiliar, the ACS is sponsoring workshops to help prospective users develop a better understanding of the content and pedagogy of this new textbook and how it has worked in classrooms. There will be a half-day workshop in March preceding the ACS Meeting in Anaheim, CA, and a one-and one-half-day workshop in July preceding the Biennial Conference on Chemical Education in Ames, IA. For more information on applying for these workshops and/or obtaining a draft copy of the textbook, contact Marta Gmurczyk (m_gmurczyk@acs.org).

Future 2YC₃ Conferences

167th 2YC₃ Conference (Mid-western)

18th Biennial Conference on
Chemical Education
July 18 - 22, 2004
Department of Chemistry
Iowa State University
Ames, Iowa 50011

<http://www.chem.iastate.edu/bcce/>
The 2YC₃ Program Chair is John
V Kenkel, jkenkel@southeast.edu

An Overview of the 18th BCCE Program

The 18th Biennial Conference on Chemical Education (BCCE) is a national meeting sponsored by the Division of Chemical Education of the American Chemical Society. The conference is designed for middle school science teachers, secondary school chemistry teachers, and college chemistry instructors. There will be an especially strong program for high school teachers for the 18th BCCE. The conference provides chemistry teachers with opportunities for interacting with colleagues at all levels in formal and informal settings. There will be a mixture of plenary lectures, symposia, workshops, chemical demonstrations, poster sessions, exhibits, tours of chemistry research areas, tours of high-tech companies, and social/family events. Teachers who are new to chemistry teaching or who have teaching experience, will find this conference to be an excellent source of materials, techniques, and chemistry content. The BCCE

helps teachers make connections with colleagues and friends who are dedicated to teaching chemistry. Chemistry teachers are invited to share what works in their classrooms with their students by visiting the 18th BCCE web site at <http://www.chem.iastate.edu/bcce/> and submitting a workshop proposal or abstract for a presentation.

Plenary Speakers and Keynote Speakers

Charles Casey, Department of Chemistry, University of Wisconsin-Madison and President Elect American Chemical Society, a NASA space chemist, Lillian McDermott, Department of Physics, University of Washington – Seattle; George Boggs, CEO and President of American Association of Community Colleges; Paula Heron, Department of Physics, University of Washington – Seattle; and Roy Tasker, School of Science, University of Western Sydney, NSW Australia.

168th 2YC₃ Conference (Western)

The 168th Conference will be held in conjunction with the WCCTA-Washington College Chemistry Teacher's Association, at Sleepy Lady retreat in Leavenworth, WA. Sleepy Lady is a mountain conference retreat, designed for professional and personal renewal and inspiration. It is tucked into the eastern slope of the Cascade Mountains. It is 121 miles east of the Seattle-Tacoma International

Airport. Guests who arrive at Wenatchee's Pangborn Airport are only 34 miles west of Sleepy Lady. The retreat has 67 acres of beautiful surroundings. It is equipped with advanced electronic support and yet, is a place to be calm in a busy world. The resort has the freshest of good foods, down-fluffed comfort, wonderful hikes through ponderosa pines and even concerts series in the Chapel Theater. For more information on Leavenworth go to <http://www.leavenworth.org/>. For information about the conference, contact the program chair, Mary O'Brien, mobrien@edcc.ctc.edu or the local program coordinator, Susan Schwarz, sschwarz@cccc.edu

169th 2YC₃ Conference (South Eastern)

Our 169th 2YC₃ conference will be held during the 2004 SE Regional ACS meeting. The event will be held at Research Triangle Park Area, North Carolina, Nov. 10-13, 2004. Sol Levine is the General Chair of the SERM 2004. The 2YC₃ chair is Clarita Bhat, ccbhat@aol.com assisted by Hamid Shirzadi, shirzadi@gtc.cc.cn.us, as co-chair. The 2YC₃ will host a symposium on "Revisiting the Organic Chemistry Curriculum." Abstracts for presentations relating to Organic Chemistry lecture or lab will be accepted. Abstract can be submitted to Clarita Bhat until the official ACS website is up.

Call for application for the office of Chair-Elect of COCTYC for the year 2006

Application for Chair-Elect must include:

- a. Pertinent personal data such as name, college, job title, address, etc.
- b. Brief statement of pertinent qualification, signed by the nominee.
- c. A statement indicating a willingness to serve signed by the nominee.
- d. A statement of support from an appropriate person in the applicant's school.
- e. To be eligible to be nominated an individual must:
 1. be a two-year college chemistry teacher
 2. have been a dues paying member of 2YC₃ a minimum of three years prior to nomination
 3. be a member of DivCHED
 4. be a member of ACS
 5. 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:
 - a. served three years on the Executive Committee
 - b. served as Local Arrangements Chair for a Conference
 - c. chaired a sub-committee
 - d. contributed within the past three years two or more ways such as:
 - acted as local industrial sponsor coordinator,
 - chaired a conference section,
 - presented a paper at a conference,
 - moderated a panel at a conference,
 - other ways an individual has contributed

-Applications must be received by the Chair no later than September 1, 2004.

-The COCTYC will serve as a nominating/screening committee to generate a slate of two candidates.

-Each 2YC₃ member shall vote for one nominee and the candidate who receives the greater number of votes shall be declared elected.

-Ballots must be received by the Chair post-

marked no later than 12/31/2004.

-Ballots will be counted by the Chair in the presence of a Notary.

-The results of the election will be reported in the first possible newsletter.

Last Election Results

Dr. Dolores C. Aquino was elected as our new Chair-Elect for 2005
Dr. E. Wheeler Conover was elected as our new Membership Chair for 2005-2007

Congratulations to both of them!

Regional Advisory Board (RAB) Members Needed!

A great way to become or to stay involved with the 2YC₃ is to become a RAB.

RAB's

1. assist in planning and conducting regional conferences
2. Assist site selection committee in recruiting future conference sites,
3. Recruit individual members, college sponsors, and industrial sponsors
4. Submit agenda items for the 2YC₃ membership meeting and actively participate in the membership meeting.
5. Solicit newsletter advertisements.
6. Assist membership chair in improving and updating the 2YC₃ faculty directory.
7. Should attend at least one conference each year and be a member of DivCHED.

The goal is to have at least ten advisory board members in each of our four regions. We are currently short of this goal. Volunteer for RAB and you will have the satisfaction of knowing that you have contributed to enhancing effective teaching of chemistry. It is also a great way to meet new people.

Contact Clarita Bhat, ccbhat@aol.com, or any of the 2YC₃ board members for more information.

**Economical
& Efficient**

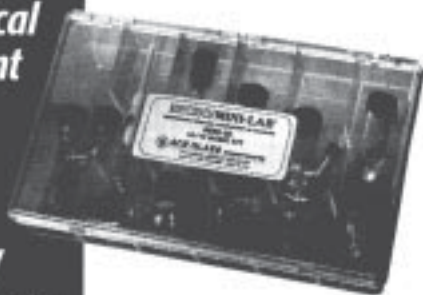
ACE Micro/ Mini-Lab[®] Kits



**ACE GLASS
INCORPORATED**

P.O. Box 688
Vineland, NJ 08362-0688
800-223-4524
Fax 800-543-6752

P.O. Box 996
Louisville, KY 40201-0996
800-626-5381
Fax 800-635-4698



Basic Kit II

This economical microscale kit utilizes #14/10 joints and features the Hickman-Hinkle Still with side port and multi-purpose thermometer adapter for added versatility. Basic Kit II will perform 95% of the experiments in *Microscale Organic Laboratory*, Mayo, Pike and Butcher, as well as the majority of experiments in *Organic Laboratory Techniques*, Davis, Lampman, Kriz and Engel.

ACE offers a complete line of microscale kits.

Call for FREE literature.

Develop The Skills for Discovery

microLAB

Tools for Research,
Tools for Learning

- Affordable
- Easy to use
- Discovery-based
- Research-grade
- Flexible

MicroLab's affordable research grade software and computer-based data acquisition equipment engage students as active participants in research and learning.

MicroLab
voice: 406-586-3274
fax: 406-586-3582



**For complete product information visit MicroLab at:
www.microlabinfo.com**

MIDDLE TENNESSEE STATE UNIVERSITY

Doctor of Arts in Chemistry

A Doctorate in Chemistry Designed for College Chemistry Teachers
(See Diana Mason in *J. Chem. Educ.* **2001**, 78, 158-160.)

Summers-Only or Year-Round Completion of Program Possible

Fellowships, Assistantships Available for Summers or Full Years

Our D.A. (Doctor of Arts) Degree in Chemistry differs from the Ph.D. and Ed.D. degrees by including a broader curriculum in chemistry and four higher education courses.

Dissertation research projects available in Chemical Education alone or in combination with any of eleven areas of chemistry:

Analytical	Biochemistry
Computational	Environmental
Forensic	Inorganic
Materials	Medicinal
Organic	Physical
Polymers	

Web site: <http://www.mtsu.edu/~chem>

Contact: William H. Ilsley: wilsley@mtsu.edu (615)898-2078
or Martin V. Stewart: mstewart@mtsu.edu (615)898-2073

or Write: Department of Chemistry, Box 68,
Middle Tennessee State University, Murfreesboro, TN 37132



Do you teach AP[®], IB, or College General Chemistry?

Teach advanced chemistry
with state-of-the-art
technology!

Advanced Chemistry with Vernier

This exciting new lab book has **34** advanced chemistry experiments designed for use with Vernier data-collection technology. The first 22 experiments have a 1-to-1 correlation with the 22 experiments recommended by AP for AP Chemistry courses. There are four student alternative versions included for each experiment: computer, calculator, Palm OS handhelds, and a generic version that covers all platforms.

Advanced Chemistry with Vernier | \$45

Stop by our booth in
Anaheim or visit
www.vernier.com/chemistry



Vernier Software & Technology

toll free 888-837-6437 • info@vernier.com • www.vernier.com

Vincennes University
Committee on Chemistry in the Two Year College
1002 North First Street
Vincennes, Indiana 47591-5201

Nonprofit Org.
Auto
U.S. Postage
PAID
Permit #85
Vincennes, IN 47591

Sonja Davison, CHAIR
Carol Handy, EDITOR
COMMITTEE ON CHEMISTRY
IN THE TWO-YEAR COLLEGE
Division of Chemical Education
American Chemical Society