

# Chemistry Outlook

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

## Notes from the Chair

**Frank Koch**

**Bismarck State College**

**Bismarck, North Dakota**

**(701) 224-5423**

My name is Frank Koch and I am the 2001-Chair of the Committee on Chemistry in the Two-Year College (COCTYC). I teach Chemistry at Bismarck State College, a two-year community college, located in Bismarck, ND. The COCTYC is the committee that oversees the activities of the 2YC<sub>3</sub> and produces this newsletter.

During my trip home from the 2YC<sub>3</sub> Conference at Vincennes University I thought about the quality and variety of topics presented at the conferences this past year. These topics included:

- a) Teaching strategies: Chem Connections, Peer Led Tutoring, Group Learning
- b) Assessment: Learning Outcomes, Instructional Effectiveness, Teacher as Assessor, Program Assessment
- c) Teaching Aids: Naming compounds and writing formulas
- d) Chemistry-English Collaboration
- e) Chemistry Laboratory: Lab computer interface workshops(Labworks and Vernier), Microscale and Small Scale Chemistry
- f) Distance Education
- g) Electronic Homework
- h) Presentation Tools: Multimedia
- i) Experimental Demonstrations
- j) Technology Accreditation
- k) Computer Animations

I was encouraged and enthusiastic about the variety and quality of the topics presented. Certainly, these are topics that are important

*Frank Koch, 2001 Chair*

## INSIDE THIS ISSUE

**VOL. 2001-I**

<b>1</b>	Notes from the Chair
<b>2</b>	Conference Calendar
<b>3</b>	2001 COCTYC and Support Staff
<b>4</b>	155 <sup>th</sup> Conference Program
<b>6</b>	Lodging and Transportation
<b>8</b>	155 <sup>th</sup> Conference Pre-Registration
<b>9</b>	155 <sup>th</sup> Conference Map
<b>10</b>	Preliminary Program for the 157 <sup>th</sup> Conference
<b>11</b>	2001 College Sponsors
<b>12</b>	

*Continued on Page 2*

## Meeting Programs in This Issue

### 2001-2002 Academic Year

#### 155<sup>th</sup> Conference (Western)

**March 30-31, 2001** San Diego City College  
1313 12<sup>th</sup> Street  
San Diego, CA 92101  
**Program Chair:** Bettina Heinz, Palomar College  
Phone: (760) 744-1150 ext. 2507  
Email: [bheinz@palomar.edu](mailto:bheinz@palomar.edu)

**Local Arrangement  
Chair:** Harold Kane  
Phone: (619) 230-2642  
Email: [hkane@sdccd.net](mailto:hkane@sdccd.net)  
**Exhibits  
Coordinators:** Duane Gergens, Mesa College  
Phone: (858) 627-2605  
Email: [dgergens@sdccd.net](mailto:dgergens@sdccd.net)

#### 156<sup>th</sup> Conference ChemEd 2001

**July 29-August 2** York University, Toronto, Ontario

#### 157<sup>th</sup> Conference (Midwestern)

**September 14-15, 2001** Anoka-Ramsey Community  
College  
11200 Mississippi Blvd., NW  
Coon Rapids, MN 55433  
**Program Chair:** Lance S. Lund  
Phone: (763) 422-3483  
Fax: (763) 422-3341  
Email: [llund@an.cc.mn.us](mailto:llund@an.cc.mn.us)

**Local Arrangements:** Patty Pieper  
Phone: (763) 422-3481  
Fax: (763) 422-3341  
Email: [ppieper@an.cc.mn.us](mailto:ppieper@an.cc.mn.us)

#### 158<sup>th</sup> Conference (Western)

**November 2-3, 2001** Community College of Southern  
Nevada  
West Charleston Campus  
6375 West Charleston Blvd.  
Las Vegas, NV 89102-1124  
**Contact** Karn Zarrabi  
Email: [zarrabi@nevada.edu](mailto:zarrabi@nevada.edu)

#### 159<sup>th</sup> Conference (Southern)

**April 5-6, 2002** National ACS meeting, Orlando,  
FL  
2YC<sub>3</sub> meeting site pending

#### 160<sup>th</sup> Conference (Western)

**July 30-August 3, 2002** 17<sup>th</sup> Biennial Conference

to all chemistry faculty at community colleges. All of these important topics were presented at recent Regional 2YC<sub>3</sub> Conferences for a mere \$15 registration fee and an annual membership of \$15. Included in the membership is a subscription of the newsletter Outlook in which new ideas can be shared. What a bargain!

Future 2YC<sub>3</sub> meetings will be held in San Diego (March 30-31, 2001), Coon Rapids, MN (Sept. 14-15) and Las Vegas, NV (Nov. 2-3, 2001). The theme for the San Diego meeting is Frontiers in Chemistry- Old and New and theme for the Coon Rapids meeting is Discovery and Inquiry in Chemistry Education. Hopefully you can attend at least one of these conferences. Better yet, why don't you get involved by being a presenter, host a conference, or become a member of the Regional Advisory Board (RAB). The responsibility of a RAB is to help organize a conference in your region, attend at least one conference per year, and encourage colleagues to become 2YC<sub>3</sub> members. I am sure you will find the involvement rewarding as I have.

Special thanks to Jay Bardole, Newsletter Editor, Dick Jones, Past Chair, and Jeff Cramer, Treasurer, who have completed their terms as members of COCTYC. We will miss their input and leadership. Also thanks to Rick Bolesta on a great job as chair-2000.

I look forward to meeting you at a 2YC<sub>3</sub> Conference this year!

**Program Chair:** Western Washington University  
Bellingham, WA  
Clarita Bhat  
Email: [cbhat@ctc.edu](mailto:cbhat@ctc.edu)

### ChemEd 2001 July 29-August 2, 2001 in Ontario

Our 156<sup>th</sup> Conference will be held in conjunction with ChemEd2001. If you are involved with chemistry at the elementary, secondary or college level, make plans to attend ChemEd2001 July 29-August 2, 2001 at York University in Toronto, Ontario. This is a five-day conference in which teachers from North America and around the world gather to share and exchange ideas about teaching chemistry - over 250 workshops offered. You will find it not just interesting but motivating and inspiring. Your teaching will have an extra zip to it when you return to classes in September! The 2YC<sub>3</sub> will sponsor a symposium "The Interface of High School and College Chemistry," as well as hold its usual business meetings.

## 2000COCTYC AND SUPPORT STAFF

### Division of Chemical Education, Inc American Chemical Society 2001 Roster of Committee Members

#### Chair

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

#### Chair-Elect

Clarita Bhat, Shoreline Community College  
16101 Greenwood Ave North, Shoreline, WA 98133  
Home: (425) 745-9550 Email: [cbhat@ctc.edu](mailto:cbhat@ctc.edu)

#### Treasurer/ College Sponsors

Ed Dobrzynski, North Iowa Area Community College  
500 College Drive, Mason City, IA 50401  
Office: (641) 422-4272 Fax: (641) 422-4115  
Home: (641) 424-9185 Email: [dobrzed@niacc.cc.ia.us](mailto:dobrzed@niacc.cc.ia.us)

#### Membership Chair

Dolores 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: [daquin@sjcd.cc.tx.cc](mailto:daquin@sjcd.cc.tx.cc)

#### Industrial Sponsor Chair

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

#### Assistant Ind. Sponsors Chair

Mike Canestaro, Sinclair Community College  
444 West Third St., Dayton, OH 45402  
Office: (937) 512-5335 Fax: (937) 512-5164

#### Newsletter Editor

Carol Handy, Portland Community College  
P.O. Box 19000, Portland, OR 97280-0990  
Home: (503) 625-6291 Email: [mh2ch@aol.com](mailto:mh2ch@aol.com)

#### Immediate Past Chair

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.cc.or.us](mailto:bolestar@mhcc.cc.or.us)

#### Past Chair (Members of COCTYC)

Thomas Gruber, Delgado Community College  
2600 General Meyer Avenue, New Orleans, LA 70114  
Office: (504) 361-6410 Fax: (504) 361-6411  
Home: (504) 943-5507 Email: [tagruber@aol.com](mailto:tagruber@aol.com)  
Carol White, Athens, Technical College  
800 U.S. Highway 29 North, Athens, GA 30610-1500  
Office: (706) 355-5033 Fax: (706) 355-5181  
Home: (706) 769-8341 Email: [white@aati.edu](mailto:white@aati.edu)

#### 2YC3 World Wide Web Page

URL: <http://2yc3.vinu.edu/>  
Jay Bardole, WebMaster

## 2YC<sub>3</sub>/Division of Chemical Education Joint Membership Form

**This is a special offer for 2YC<sub>3</sub> members who are not already members of the Division of Chemical Education.** The separate dues for 2YC<sub>3</sub> and the Division of Chemical Education are \$15.00 each. If you are not now a member of the Division of Chemical Education, you can join the Division and renew your membership with 2YC<sub>3</sub> for only \$25.00, a savings of \$5.00.

Renew my 2YC<sub>3</sub> 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 2YC<sub>3</sub> Newsletter and CHED Newsletter to Home \_\_\_\_\_ Work \_\_\_\_\_

Send ACS Member Form Yes \_\_\_\_\_ No \_\_\_\_\_

2YC<sub>3</sub> Membership Information: Are you a  
\_\_\_\_\_ Two-Year College Teacher? \_\_\_\_\_ Four-Year College Teacher?

\_\_\_\_\_ High School Teacher? \_\_\_\_\_ Other

Please send your check, payable to 2YC<sub>3</sub>, for \$15 (2YC<sub>3</sub> only) or \$25 (joint membership) to: Dolores C. Aquino, San Jacinto College Central, 8060 Spencer Highway, Pasadena, TX 77501-2007

## Conference Program and Call for Proposals

This is a preliminary program. It includes a spectrum of topics related to the conference theme, but in most cases with presenters unlisted. We invite you to participate, especially in the concurrent Friday afternoon "Presentation/Discussion" sessions. Please consider submitting specific proposals, including a 100 word abstract and any requests for audiovisual support, if the topics match your interests. Of course other topics are just as welcome; they would merely alter some details in the final version of the program.

BE SURE TO MEET THE POSTMARK PROPOSAL DEADLINE OF TUESDAY FEBRUARY 20.

As it evolves, the final program, along with session abstracts and any new conference arrangements, will be updated on our new Website:

[www.ilcmesa.sdccd.cc.ca.us/Depts/Chemistry/2YC3/sandiego2001.htm](http://www.ilcmesa.sdccd.cc.ca.us/Depts/Chemistry/2YC3/sandiego2001.htm)

155<sup>th</sup> TWO-YEAR COLLEGE CHEMISTRY CONFERENCE  
"The Frontiers of Chemistry - Old and New"  
San Diego City College

Program Chair: Dr. Bettina Heinz; [bheinz@mailhost1.csusm.edu](mailto:bheinz@mailhost1.csusm.edu)

Local Arrangements Chair: Dr. Herald Kane; [hkane@sdccd.net](mailto:hkane@sdccd.net)

Exhibits Chair: Dr. Dwayne Gergens; [dgergens@sdccd.net](mailto:dgergens@sdccd.net)

### Friday, March 30

- 8:00 - 4:00      **Registration, Exhibits, "White Board"** near the registration table for suggesting afternoon Open Forum topics (moderated conversations on "best practices")
- 8:30 - 9:30      **Exhibitors' Presentations and Demonstrations**
- 9:00 - 9:45      **Business Meeting of the Committee on Chemistry in the Two-Year Colleges (COCTYC)** (everyone welcome)
- 10:00 - 10:30     **Refreshments**
- 10:30 - 10:50     **Welcome and Opening Remarks**  
•Bobby F. Wilson, President, San Diego City College  
•Conference co-chairs
- 11:00 - 11:50     **Plenary Talk A: Developing Web Articles to Convey the History of Chemistry**  
Dr. Edwin Thall, Florida Community College, Jacksonville
- 12:00 - 12:50     **Plenary Talk B: Chemistry as Foundation of the New Technologies - a Nanotechnology/Biotechnology Primer**  
BioComm Executive speaker to be announced
- 1:00 - 2:00      **Lunch on your own: campus cafeteria or college vicinity**
- 2:00 - 3:00      **Presentation/Discussion Session C (Suggested Topics)**
- C1. The Real and the Virtual: When is technology-mediated instruction (TMI) fruitful; when is it folly?**  
(Proposals invited)
- C2. Macroscale versus Microscale: The continuing debate on optimal formats for laboratory experiments and lecture demonstrations**  
(Proposals invited)
- C3. Inorganic Nomenclature: Issues and Innovations**  
Jacqueline Thomas, Southwestern College [jthomas@swc.cc.ca.us](mailto:jthomas@swc.cc.ca.us)
- C4. The "Green Chemistry" Curriculum: Topics in Environmental Chemistry**  
(Proposals invited)
- 2:00 - 4:45 **Special Event Program D**
- D1. Workshop: The LabWorks Learning System**  
David Sinay [dsinay@scitechnologies.com](mailto:dsinay@scitechnologies.com)

**D2. A Tour, a Talk, a View of the Future: the City College Center for Applied Technologies (CACT)**

Dr. Joan Stepsis, CACT Director, San Diego City College

3:00 - 3:15 **Refreshments and Announcements**

3:15 - 4:45 **Presentation/Discussion Session E (Suggested Topics)**

**E1. Curriculum Issues in Biotechnology Programs**

Dr. David Singer, San Diego City College

**E2. Accessing Chemical Information in 2010: Today's Skills, Tomorrow's Demands**  
(Proposals invited)

**E3. Where Have Our Students Gone?: Thoughts on modernizing and adapting the undergraduate chemistry curriculum**  
(Proposals invited)

**E4. Open Forum:** moderated conversations on "best practices," including but not limited to topics suggested on the "white board" near the registration table. "Good ideas are meant to be stolen!"

6:00 - 6:30 **Social Mixer**

6:30 - 8:30 **Banquet and Speaker**

- Greetings from District and College Administration
- Speaker to be announced.

**Saturday, March 31**

8:00 - 1:00 **Registration, Exhibits, "White Board" for suggesting afternoon Open Forum topics. Sign up for carpools (both drivers and riders) to Southwestern College (see Workshop I1), leaving at 1:30 PM.**

8:30 - 9:30 **Exhibitors' Presentations and Demonstrations**

9:30 - 10:20 **Plenary Talk F: New Drugs from the Sea**

Dr. J. Trishman, California State University San Marcos

10:30 - 11:00 **Refreshments and Announcements**

11:00 - 11:50 **Plenary Talk G: Frontiers of Forensic Chemistry and the Criminal Justice System**  
(Proposals invited)

12:00 - 12:50 **Special Event Program H**

**H1. Demonstration: The Science and Art of Glass Blowing**  
Mr. R. Jones, Mr. Ron Nellis

**H2. Slides and Commentary: Rhythm and Form in the Beautiful Images of the Molecular World**  
Dr. Bettina Heinz, Palomar College

1:00 - 2:00 **Picnic box lunch on campus, or lunch on your own.**  
Those attending Workshop I1 should depart in carpools by 1:30 PM.

2:00 - 4:45 **Special Event Program I**

**I1. Workshop: Current Instrumentation in the Chemistry Laboratory**  
Dr. David Brown, Southwestern College  
(Carpools leave for Southwestern at 1:30 PM)

**I2. Workshop: The LabWorks Learning System**  
David Sinay [dsinay@scitechnologies.com](mailto:dsinay@scitechnologies.com)

**I3. Open Forum: moderated conversations on "best practices."** It might be fruitful to bring along one favorite "solution" and one "continuing problem" in teaching/learning to offer to the conversation. And there still may be one last idea to steal!

5:00 PM

**Closing Remarks, end of the Conference.**

**SEE YOU AT THE 156<sup>TH</sup>! (Southern Region, Details TBA)**

## Lodging and Transportation

San Diego City College is located at the southwest corner of Balboa Park, in the very heart of the city (it's that big green rectangle you'll find on every map). The airport is just 2 miles to the west and north, on the edge of San Diego Bay; the central bus and Amtrak terminals are 1 mile directly west. The national meeting of the American Chemical Society is scheduled immediately after ours, at the Convention Center on the bayfront just 1 mile to the southwest, an easy trolley ride from the City College stop.

We've chosen an "inner ring" of small hotels, all within easy walking distance of City College, as priority conference lodgings. Consider the epicenter (a uniquely California term to denote "where the shakin' is") to be the corner of 9<sup>th</sup> Avenue and Ash Street - all lodgings are within a block or two of this point. The conference site itself is the City College Technology Education Center (TEC) building, on 12<sup>th</sup> avenue where A Street runs into the campus.

City Bus #992, "the Flyer," runs to and from the airport from its terminus at the corner of 9<sup>th</sup> and A Street (one block south of Ash) every 10 - 15 minutes. Transit time is about 25 minutes, cost is 2 dollars. Other airport transportation options abound, with shuttle and taxi services providing 10 minute transit times for 5 - 7 dollars.

To drive from the airport/car rental locations, head south for about a mile on North Harbor Drive, turn left on Broadway, left on 9<sup>th</sup> Avenue, and four blocks north to the hotel area.

### LODGING (when calling, mention 2YC3, City College)

#### Rodeway Inn - reserve by phone

#### rates (add 10.5% tax)

833 Ash Street, at 9<sup>th</sup> Ave.  
San Diego, CA 92101  
Toll free 800-522-1528  
[www.flash.net/~rodeway/](http://www.flash.net/~rodeway/)  
limited free parking

•1 queen bed \$82  
•1 queen bed +  
pullout sofa \$92  
•1 king bed +  
pullout sofa \$99

#### Days Inn - reserve by phone

#### rates (add 10.5% tax)

1449 9<sup>th</sup> Avenue, at Beech St.  
San Diego, CA 92101  
Toll free 800-457-8080  
Direct 619-239-9113  
[www.daysinnsd.com](http://www.daysinnsd.com)  
limited free parking

•1 king bed \$59  
•2 queen beds \$69

#### Travelodge - reserve by phone

#### rates (add 10.5% tax)

1345 10<sup>th</sup> Avenue, at A St.  
San Diego, CA 92101  
Direct 619-234-6344  
[www.travelodge.com](http://www.travelodge.com)

•1 queen bed \$55  
•2 queen beds \$70  
•for more than double  
occupancy add \$10/person

**LODGING ALREADY ARRANGED BY ACS - reserve at conference rates only after January 29, and only at**  
[www.acs.org/meetings/sandiego2001](http://www.acs.org/meetings/sandiego2001) The ACS phone number is 202-872-4374.

#### Comfort Inn

#### Quality Inn

719 Ash St., at 7<sup>th</sup> Ave.  
San Diego, CA 92101  
Toll free 800-404-6835

1430 7<sup>th</sup> Ave., at Ash St.  
San Diego, CA 92101  
Toll free 800-404-6835

Direct 619-232-2525

Direct 619-696-0911

preliminary rates quoted were \$114 and up, for 1 or 2 persons

### ADDITIONAL LODGING ALTERNATIVES

Within five minutes by car (several dollars by taxi), is an area called Mission Valley, chock full of hotels and motels for the hordes of tourists who visit us every year. At this writing we have negotiated with only one, a newer and nicer example. If you need additional assistance, please e-mail the local arrangements chair, Herald Kane, [hkane@sdccd.net](mailto:hkane@sdccd.net)

Hawthorn Suites - reserve by phone

rates (add 10.5% tax)

1335 Hotel Circle South  
San Diego, CA 92108  
Toll free 888-591-1199  
Direct 619-299-3501  
[www.hawthornsuitessandiego.com](http://www.hawthornsuitessandiego.com)

- 1 queen bed + queen sofa \$109
- 2 BR, each with queen + queen sofa \$150
- fully equipped kitchens, extra person no charge

### .Atlas

Local area and campus maps are provided. It may be useful (and amusing!) to locate, optimize and print your own map set from the following Website: [www.SignOnSanDiego.com](http://www.SignOnSanDiego.com)

We suggest the following path, which centers you among our priority lodgings: scroll down to "Visitor Info," click on "Hotels," click in "Keyword" box and type in "Rodeway Inn," go to "Within" box and scroll down to "Downtown/Gaslamp," scroll right and click on "Go." When the hotel listing appears, click on "map it." Click on "zoom" and/or NSEW directional symbols to optimize map, then print.

### More Time for Science: Using Computer Interfaces in your Science Laboratory

This hands-on, interactive workshop will focus on how the LabWorks Learning System, a hardware and software interface, provides science educators and students with a way to tangibly see the results of experiments not possible without a computerized data acquisition device. Using the LabWorks unique Experiment Builder and EZ Program, students are truly involved in the process of science and **learn by discovery** with LabWorks.

#### Call for application for the office of Chair-Elect of COCTYC for the year 2003

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.  
A statement indicating a willingness to serve signed by the nominee.
  - c. A statement of support from an appropriate person in the applicant's school.
  - d. 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, 2001.  
-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 received the greater number of votes shall be declared elected.  
-Ballots must be received by the Chair postmarked no later than 12/31/2001.  
-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.

#### Call for application for the office of Industrial Sponsors Chair of COCTYC for a three year term beginning 2003

Application for Industrial Sponsors Chair must include:

- a. Pertinent personal data such as name, college, job title, address, etc.
  - b. Brief statement of pertinent qualification, signed by the nominee.  
A statement indicating a willingness to serve signed by the nominee.
  - c. A statement of support from an appropriate person in the applicant's school.
  - d. 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
- Applications must be received by the Chair no later than September 1, 2001.  
-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 received the greater number of votes shall be declared elected.  
-Ballots must be received by the Chair postmarked no later than 12/31/2001.  
-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.

## Preregistration

155<sup>th</sup> 2YC3 Conference (Western Region) Pre-Registration  
San Diego City College  
San Diego, CA 92101  
March 30 and 31, 2001

Name \_\_\_\_\_

Institution \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone (\_\_\_\_) \_\_\_\_\_ Fax (\_\_\_\_) \_\_\_\_\_ e-mail \_\_\_\_\_

Your current 2001 memberships: \_\_\_\_ 2YC3 \_\_\_\_ ACS \_\_\_\_ DivCHED

Do you teach at a \_\_\_\_ 2-yr. Coll. \_\_\_\_ 4-yr. Coll. \_\_\_\_ High School?

### Conference Fees

2YC3 Membership (note 1) @ \$15.00 \$ \_\_\_\_\_

Conference registration (note2) @ \$15.00 \$ \_\_\_\_\_

Friday evening banquet (note 3) @ \$20.00 \$ \_\_\_\_\_

Saturday picnic box lunch (note 4) @ \$ 7.25 \$ \_\_\_\_\_

**Total** (note 5) \$ \_\_\_\_\_

#### Notes:

1. Fee includes all events in 2001. Check either \_\_ new \_\_ renewal  
No fee required for 2YC3 members with paid up dues for 2001.
2. No fee for high school teachers or college/high school students
3. Banquet fees must be received by Friday March 23. Full buffet dinner includes chicken breast and/or vegetarian lasagna.
4. Lunch includes croissant sandwich of choice, potato salad or cole slaw, condiments, fruit, cookie, beverage.
5. Make checks payable to San Diego City College, and mail to Dr. Herald Kane, City College, 1313 12<sup>th</sup> Avenue, San Diego CA 92101

**Workshop Registrations:** No charge, but enrollment may be limited.

#### Friday

2:00 PM **Workshop D1:** The LabWorks Learning System (limit 12) \_\_\_\_\_

2:00 PM **Tour, Talk D2:** City College CACT/Incubator (limit 20) \_\_\_\_\_

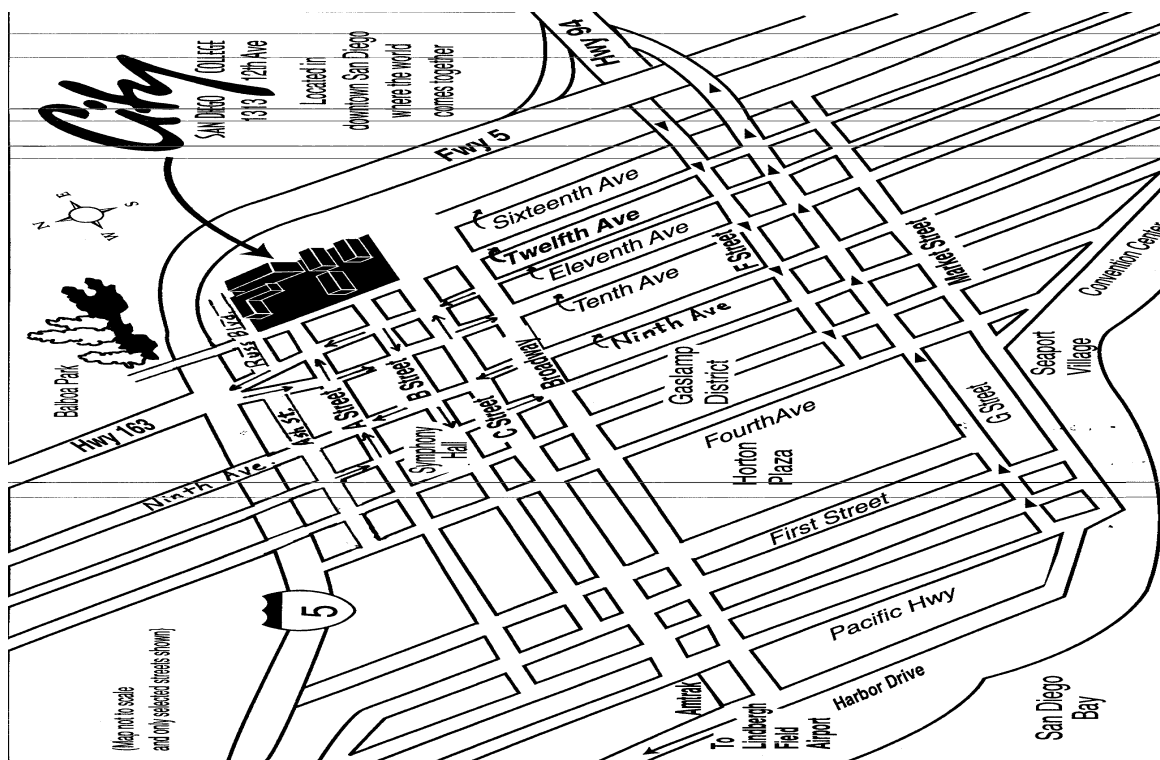
#### Saturday

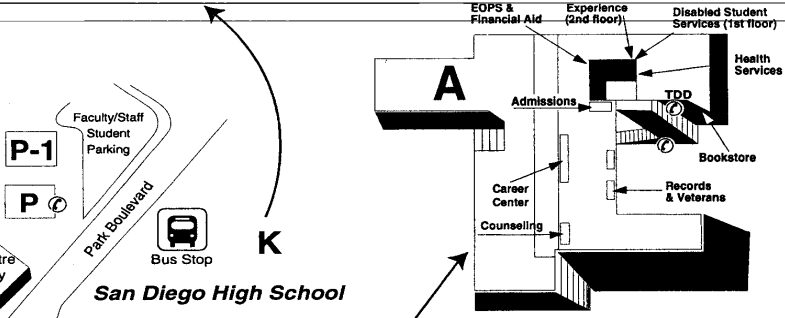
12:00 PM **Demonstration H1:** Sci./Art of Glassblowing (limit 20) \_\_\_\_\_



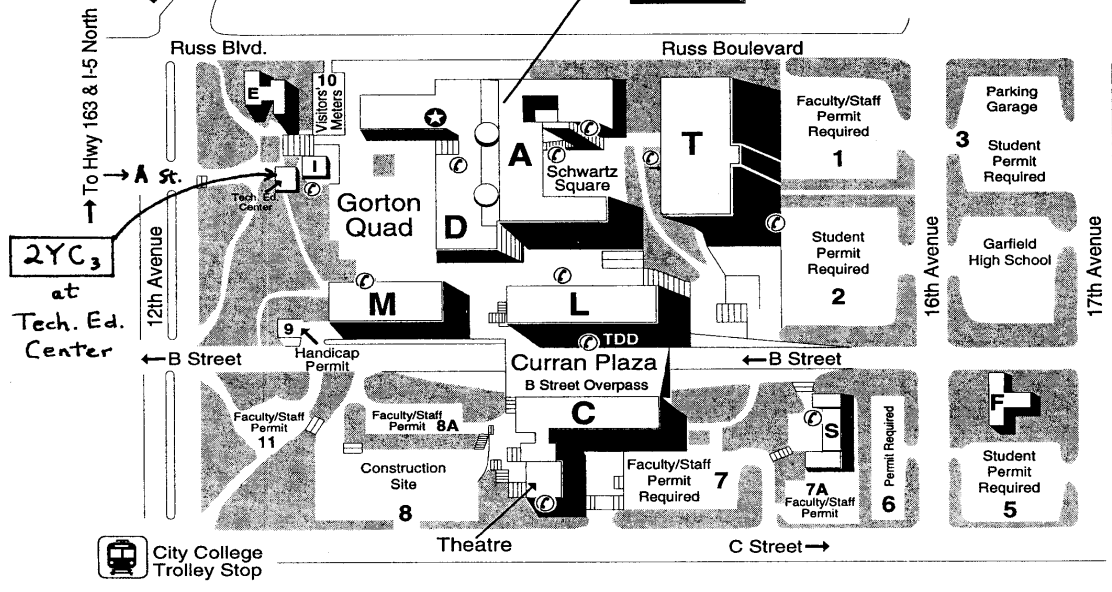
2:00 PM **Workshop I1:** Instrumentation at Southwestern College (pre-arrange carpools at registration desk) (limit 20) \_\_\_\_\_

2:00 PM **Workshop I2:** The LabWorks Learning System (limit 12) \_\_\_\_\_





"A" Building	Room
Admissions	A-112
Bookstore	A-12
Career-Transfer Center	A-111
Cashier/Accounting	A-114
Counseling	A-110
Disabled Student Services	A-115
EOPS/Financial Aid	A-113
Health Services	A-116
Learning Disabilities	A-221
Residency Determination	A-112
Veterans/Records	A-109
Work Experience	A-221



157<sup>th</sup> 2YC<sub>3</sub> Conference  
Anoka-Ramsey Community College, Coon Rapids, MN

September 14-15, 2001

Discovery and Inquiry in Chemistry Education

<http://www.ar.cc.mn.us/2yc3>

Come visit the great state of Minnesota for the 157<sup>th</sup> Conference of the 2YC<sub>3</sub>. September is a beautiful time of year in Minnesota and the conference theme is a hot topic. Join your colleagues from around the country to learn more about discovery and inquiry in chemical education. While the program is still several months away, the list of confirmed speakers and topics include:

**Keynote Address:** *Bridging the Great Divide: Student and Faculty Cooperative Learning Facilitated by Technology*, Paul Jackson, St. Olaf University

**Banquet Address:** *Innovation: The Key to the Future*, Art Fry, Retired Corporate Scientist and Inventor of the Post-It® Note, 3M

**Saturday Opener:** *Inquiry Labs for the New ACS General Chemistry Curriculum*, Melanie Cooper, Clemson University

**Textbook Authors:** Steven Zumdahl and Susan Arena Zumdahl, University of Illinois Urbana-Champaign

**New Program:** *Starting a Biomedical Program*, Kathie Whelchel, Anoka-Ramsey Community College, Coon Rapids, MN

**Concurrent Session:** *Cooperative Learning in Chemistry*, Gordon Savelle, Itasca Community College, Grand Rapids, MN

**Concurrent Session:** *Teaching Introductory Chemistry Online Using WebCT*, Kirk Boraas, Minneapolis Community and Technical College, MN

Consult the preliminary program schedule at <http://www.ar.cc.mn.us/2yc3> for times, additional tentative speakers, tours, and other events. If you would like to submit a proposal for a presentation, panel, or workshop, please contact the program chair. Or, if you would like to exhibit, contact the exhibits coordinator. We look forward to seeing you next fall!

<b>Program Chair</b> Lance S. Lund Anoka-Ramsey Community College 11200 Mississippi Blvd NW Coon Rapids, MN 55433-3470 Email: <a href="mailto:llund@an.cc.mn.us">llund@an.cc.mn.us</a> Phone: 763.422.3481	<b>Local Arrangements Chair</b> Patty Pieper Anoka-Ramsey Community College 11200 Mississippi Blvd NW Coon Rapids, MN 55433-3470 Email: <a href="mailto:ppieper@an.cc.mn.us">ppieper@an.cc.mn.us</a> Phone: 763.422.3481
<b>Exhibits Coordinator</b> Tina M. Wade North Hennepin Community College 7411 85th Avenue North Brooklyn Park, MN 55445 Email: <a href="mailto:twade@nh.cc.mn.us">twade@nh.cc.mn.us</a> Phone: 763.424.0872	<b>Special Assignments</b> Susan Reid Anoka-Ramsey Community College 11200 Mississippi Blvd NW Coon Rapids, MN 55433-3470 Email: <a href="mailto:sreid@an.cc.mn.us">sreid@an.cc.mn.us</a> Phone: 763.422.3480

A proud sponsor of 2YC3 since 1994

## The LabWorks Learning System

Never miss the point again!

**Titration the way it should be!**

**Labworks collects the data so that your students can concentrate on the thought intensive aspects of chemistry:**

- Experimental Design
- Data Analysis

Join your colleagues in a hands-on LabWorks workshop at your next 2YC3 conference.

FOR DETAILS:

[www.scitechnologies.com](http://www.scitechnologies.com)

Or call 1-800-421-9881

The *premier* computer-based data acquisition system for chemistry