

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

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Notes From The Chair

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Nitrogen

Sonja E. Davison
Tarrant County College
Hurst, TX 76054

Fall semester is well underway, and I hope that all of you are having that perfect semester about which we all fantasize.

I am still brooding about summer school. At my college, two of my colleagues and I rotate through the Organic Chemistry offerings: day classes, night classes, trailer courses. We also rotate through the dreaded 10 weeks of torture called "summer organic." I taught it in 1999, 2001, and it was my turn in 2004. Since last I taught it, our enrollments have increased so that we offered a lecture section and two lab sections this summer. So on June 1, forty-seven students and I embarked upon quite an adventure together. Organic One.

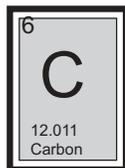
The class was just a dream of a class: Nice, bright kids, a blend of some of my former Gen Chem students and the usual crop from various universities who were home for the summer. They worked hard, studied hard, made the usual semi-harrowing lab errors. By late June, however, I was seriously wondering about the wisdom of even offering Organic in the summer. Despite my best efforts and their best efforts, we were struggling with the sheer volume of material, daunting enough in the long term, to be mastered in such a short amount of time. Many students dropped, and they were very gracious about it. Not one student wanted to kill the messenger (me) who had to deliver the brutal news about the nature of that beast organic chemistry. Twenty-nine students finished the class, and some of that number had D's and F's. I had many sleepless nights over the class.

continued on page 2

INSIDE THIS ISSUE

Vol. 2004 - IV

- | | |
|-----|--------------------------------------|
| 1 | Notes from the Chair |
| 2 | Conference Calendar |
| 3 | 2004 COCTYC and Support Staff |
| 4-7 | 169 th Conference Program |
| 8 | 170 th Conference |
| 9 | Industrial Sponsors |
| 10 | Call for Applications |
| 11 | Advertisers |



Conference Calendar

2004 - 2005 Academic Year

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 Michaleen Lee
Email: leem@storm.bucks.edu

172nd Conference (Midwestern)

late fall, 2005 W. R. Harper College, Palatine, IL

173rd Conference (Southern)

March 26-30, 2006 Atlanta, Georgia

174th Conference (Eastern) 19th BCCE,

July 30-August 3, 2006, Purdue University Campus, West
Lafayette, Indiana

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

continued from page 1

I may have developed an ulcer. I am sure it was even worse for the students. I kept thinking that by offering the course in a five-week term, we were setting up the vast majority of students for failure.

Organic Two began on July 14 with fourteen of my original class and about 30 new students from various schools and backgrounds. They continued to struggle with the ever increasing body of knowledge they were expected to digest, but because they had learned some lab techniques the previous semester, that component was much better. They developed a

camaraderie that was a real joy to observe. And they never blamed me for their struggles. Was this the Stockholm Syndrome? Maybe. Thirty-one students finished the class, and almost all of them thanked me for teaching the class. One young man (a Purdue student) went so far as to say that it was an “awesome” class. Several students asked me to write recommendations for professional schools to which they were applying. I just heard from a young man who took the DAT two days after the final, and he gratefully reported that he had scored in the 94th percentile on the organic portion.

These latter incidents made me feel pretty good, but they did not remove my doubts about the wisdom of teaching these five-week sessions. As I write this, the Leavenworth, Washington Conference and the Research Triangle, North Carolina Conference have not yet transpired. The former will include a panel discussion of the organic curriculum, and the latter will include a symposium on the same topic. I hope that this summer school issue will be something that organic instructors can discuss. I am interested in hearing about other experiences and opinions.

This is my last “Notes” column. My year as 2YC₃ Chair is drawing to a close. It has been a real pleasure to serve in this office. My chores were easy because I served along with an Executive Committee that was so helpful and energetic. They are also the nicest, kindest group of people one could hope to meet. Thanks, Bill, Clarita, Ed, Michaelen, Dolores, Carol, Frank, Mike, Rick.

Thanks are also due to my colleagues here at Tarrant County College, Northeast. Lillian Hansen, Jean Anne Lanier, Bill Kucera, Judy Scheid, and Connie Hendrickson have cheerfully covered my classes and performed countless chores that made it possible for me to attend conferences throughout my years as Chair and Chair Elect. I am very fortunate to work in a place with such a pleasant atmosphere and with such wonderful administrative support.

I look forward to seeing you at meetings for many years to come.

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American Chemical Society
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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.

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

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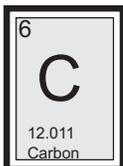
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**169th 2YC₃ Conference combined with the
2004 56th Southeastern Regional Meeting of the
American Chemical Society
November 10-13, 2004**



Conference Program

<http://membership.acs.org/s/serm2004/>

General Chair: Sol Levine, SERM2004@mindspring.com

2YC₃ Co-chairs: Clarita Bhat, ccbhat@aol.com, Susan Schwarz, sschwarz@cccc.edu, Tracy Cheatham, tcheatham@cccc.edu.

The 56th Southeastern Regional ACS Meeting (SERMACS 2004) is hosted by the North Carolina Section of the ACS. The meeting will be held Wednesday, November 10 through Saturday, November 13 at the Sheraton Imperial Hotel and Convention Center and the Holiday Inn in the Research Triangle Park, Durham, North Carolina. This meeting is held concurrently with the Southeastern Regional Meeting of the Two Year College Chemistry Committee (2YC₃) of the Division of Chemical Education. The meeting location is within minutes of Raleigh-Durham Airport and convenient to both the cities of Raleigh and Durham.

Information concerning the program, registration, workshops, special events, the exhibitions (both commercial and graduate school/industrial fair) and housing can be found at the meeting web site **<http://membership.acs.org/s/serm2004/>**.

Important deadline: October 24 for advanced registration. Advanced registration rates are \$110 for ACS members, \$45 for 2YC₃ members and \$25 for students. Other registration categories available on the web. Conference room rates at the Sheraton Imperial Hotel and Holiday Inn RTP are \$110/night.

The technical program has about 30 symposia with a combination of invited and contributed oral presentations as well as posters. Topics include medicinal chemistry, chemical education, environmental chemistry, materials chemistry and polymer chemistry in addition to the traditional areas of analytical, biochemistry, inorganic, organic and physical chemistry. The GlaxoSmithKline symposium on "Frontiers in Chemistry and Medicine" and a symposium honoring the distinguished career of Ernest Eliel highlight the chemistries important in pharmaceuticals and medicine. Symposia on proteins, nucleic acids and genomics also relate to pharmaceutical and medicinal chemistry. Environmental and public health cover diverse specialties important to agricultural chemistry, safety of food, air, water and soil as well as green chemistry in manufacturing are among other symposia topics. Sessions in materials chemistry and polymer chemistry will report the latest work in nanoscale materials, materials for batteries and fuel cells and solid state materials as well as polymers in textiles, biopolymers and polymers in confined environments. Chemical education programming will include symposia and workshops for chemistry faculty at research institutions, primarily undergraduate institutions and two year colleges. The 2YC₃ is hosting a symposium on the organic chemistry curriculum at two-year colleges. The day long undergraduate research meeting provides an excellent opportunity for undergraduates and graduate programs throughout the southeast to interact. In addition there are several opportunities for continuing education in the areas of safety and hazard-

ous waste management, computational chemistry, information technology, web based assignments and service to the ACS at both the local section and regional levels.

The Technical Program

The technical program covers broad areas of chemistry parts of which will appeal to nearly all chemists and chemical engineers. All symposia have multiple sessions to accommodate both invited and contributed papers as well as posters. Sessions usually span more than one day; some will begin with invited papers, others with contributed papers and some may mix invited and contributed papers in several sessions. For that reason it will be important to look at the final program to find the final dates and times of papers of interest. A few of the topical areas are highlighted below.

Biochemistry and Medicinal Chemistry

Also beginning Wednesday afternoon are the symposia on “**Nucleic Acids: Structural Motifs and Applications**” and on “**The Human Genome Project: Impact on the Drug Discovery Process**”. The two-day GlaxoSmithKline symposium on “**Frontiers in Chemistry and Medicine**” begins Thursday morning. “**Protein Characterization by Mass Spectrometry**” begins on Thursday afternoon and is highlighted by plenary lecture given by Nobel Laureate, John Fenn. The topical area continues on Friday with “**NMR: Applications to Structural Genomics**”.

Chemical Education

Education comes to the forefront in many forms at SERMACS 2004. A symposium of invited and contributed papers and posters along with a panel discussion begins on Thursday with “**Defining Scholarly Work in Chemical Education**”. An intriguing titles from this symposium: “Applying Educational Technology to Chemistry Instruction: Are We There Yet?”. Friday continues with a session on “**Recommendations from a Recent Undergraduate Research Summit in Chemistry**”.

A new venture for SERMACS and the Two Year College Chemistry Consortium of the ACS Division of Chemical Education is to hold our regional meetings jointly. The 2YC₃ meeting will begin on Friday with a full-day program, “**Revisiting the Organic Chemistry Curriculum in Two-Year Colleges**”. These sessions will include a luncheon and business meeting on Friday and conclude with additional presentations on Saturday.

The program for chemical educators also includes workshops on “**Teaching Chemical Information**” (Friday morning), “**Computational Chemistry for College Educators**” (Friday afternoon), “**Computational Chemistry for High School Educators**” (Saturday morning) and a “**Workshop on WebAssign**” (Saturday afternoon). WebAssign is a web based tool for practice, engagement and assessment. Examples will be shown of its use as a laboratory notebook, for practice problems and for exams in various areas of chemistry including a particularly interesting problem type that requires drawing organic structures.

Environmental Chemistry and Public Health Issues

This important area includes five symposia beginning on Thursday with sessions related to the “**Composition of Atmospheric Particulate Matter**”. Friday begins a series of symposia which continue into Saturday on “**Ensuring Food and Drinking Water Safety**”, “**Mercury Immobilization in Soil and Water**”, “**Green Chemistry and Manufacturing**” and “**Bioactivities of Phytochemicals: Health Promotion, Human Nutrition and the Food Supply**”. One of the Industrial Innovations Awards presentations described below also relates to this topic.

Materials Chemistry

Symposia in this area begins Wednesday and Thursday with contributed and invited papers on “**Nanoscale Materials: Synthesis, Application and Development**” and continues on Friday and Saturday with “**Solid State Chemistry: Structure/Property Relationships**”. Also on Saturday “**New Materials for Advanced Batteries and Fuel Cells: Research in the Southeastern US**” will complete the meeting. Symposia related to polymeric materials can be found in the sessions of Polymer Chemistry described below.

Organic Chemistry

Sessions related to organic chemistry can be found all week, but the symposium, “**Chirality and Stereochemistry: A Historical Perspective**” on Friday afternoon, begins a series of events to honor Professor Ernest Eliel, 1992 ACS President and 1996 Priestly Medalist. A banquet in his honor will be held Friday evening followed by technical sessions on “**Asymmetric Synthesis: a Symposium in Honor of Ernest Eliel**” and “**Molecular Chirality: Theory, Synthesis and Spectroscopy**” on Saturday.

Polymer Chemistry

Three polymer symposia have been organized. “**Polymeric Biomaterials**”, beginning on Thursday has 10 invited talks describing the latest developments and technologies in polymeric materials for modification and use in humans and other animals. Friday’s “**Polymers in Confined Environments**” includes talks describing polymers in thin films, in brushes, in the unique morphologies created by phase segregated block copolymers and isolated in the narrow channels of inclusion compounds formed with various hosts. Polymers in these environments illustrate the differences between the behaviors of polymers in confined environments and those normally exhibited in bulk polymer samples. These differences are suggested as the bases for new polymer materials technologies. The concluding session all day on Saturday is “**New developments in Textiles: Can They really do that?**”, describes the applications of new developments in polymer science to textile fibers. These three symposia appear likely to be scientific program highlights of the meeting.

Two-Year College Chemistry Consortium (2YC₃) Events

Symposium: Revisiting the Organic Chemistry Curriculum

In recent years, the majority of students taking organic chemistry courses are less likely to become chemistry majors than to pursue careers in health or environment related fields, such as dentistry, pharmacy, medicine, nutrition, physical therapy, environmental science, biochemistry, etc. In addition, the proliferation of online courses is changing the way chemistry is taught in many places. A discussion on how to keep up with these new trends without compromising the learning process so central to this discipline should be of paramount importance to all educators. The symposium is an invitation to share new and interesting ideas, approaches to teaching as well as concerns about the future of organic chemistry.

Organizer:

Clarita Bhat (Shoreline Community College, Shoreline, WA)

Susan Schwarz (Central Carolina Community College)

Tracey Cheatham (Central Carolina Community College)

When and Where:

The symposium on the Organic Chemistry Curriculum is scheduled for Friday, November 12, 2004, in the Auditorium of the Sheraton Imperial Hotel. Depending on the number of papers contributed, we will have a morning session from 8 am to noon and an afternoon session from 1:30 pm to 5 pm. There is also space for a third session on Saturday am if necessary.

Both invited and contributed sessions will be held in the Sheraton Imperial Hotel. The **invited session** is scheduled on Friday, November 12, 2004. The **contributed papers and posters** related to this symposium will be coordinated with the invited session.

2YC₃ Luncheon and Business Meeting, Friday, November 12

Location: Sheraton-Imperial Hotel - Crystal Coast Ballroom

Time: Noon

Fee: Luncheon: \$25 (on registration form)

Meeting: open to all members and potential members of 2YC₃

The meeting will begin about 1/2 hour after lunch is first served. Anyone not eating lunch may join us at that time.

Banquet Honoring Ernest Eliel, Friday, November 12

Location: Sheraton-Imperial Hotel - Crystal Coast Ballroom

Time: 7:00 PM

Fee: \$35 (on registration form)

Registration, Lodging, Flight, and Driving Direction Information

The conference website has a direct link to the registration for the Sheraton Imperial Hotel @\$110 per night. There is also a block of rooms at the Holiday Inn about 3 minutes away at the same rate. There is a Comfort Suites and Wingate Inn at the same exit off of Rte. 40.

In terms of transportation: the Sheraton is meeting headquarters and 97% of the meeting is contained there; there are three targeted to specific audiences symposia being held at the Holiday Inn (Chemistry and the Law; Progress (an ACS committee on women in chemistry). It is a few minutes from RDU airport and the hotels do provide shuttle service; the hotel link does provide driving directions and the conference website does have various maps of the triangle area. The Durham visitor's bureau will have a table at registration with lots of information on the area and Raleigh has provided us with information packets. For those flying: American, US Air, Southwest, Air Tran, America West, Independence Air, United, Delta, Air Canada & Northwest are among the airlines flying in RDU. Charlotte airport has more service but is about 3 hours away; the Piedmont-Triad airport! near Greensboro is about 1 1/2 hours.

Meeting registration is under the Registration key on the web site which takes you to a page on the ACS website; the person needs to choose a password and ID.....go to the southeast region page and click the appropriate key (ACS member or non-member); that will bring up a registration page including 2YC₃ member at the rate mentioned above and all the events. Registration is on-line via credit card or one can print the form and send it in. Either way, if registered in advance, all one has to do is go to the desk to pick up the packet (badge, tickets, etc) and program book. The book contains meeting information (schedules, locations, etc.) and a CD of all the abstracts; if one wants a print copy of the abstracts, that is extra on the form.

THE 170th 2YC3 CONFERENCE, Palomar College, San Marcos California, March 11-12, 2005

The Meeting scheduled right before the ACS – San Diego Meeting at the Convention Center in the week of Mar 13 – 17, 2005 should prove to be very stimulating and interesting. Having close contact to the world-famous Scripps Research Institute in La Jolla, we are hoping to get a top-of-the-line research scientist as dinner speaker. At the last regional meeting at City College, that I chaired, we managed to get Dr. Julius Rebek Jr. to give a most rewarding and aesthetically pleasing presentation. At that time I received the suggestion to also ask Dr. K. Barry Sharples as a speaker, who in the meantime received the Nobel Prize. I will humbly try to get him to speak for us, but after the fact will not have my hopes raised too high. Another choice is Dr. Dale Boger, Dr. Peter Schultz or Dr. Gerald Joyce. In any case it will be a representative to open for us the horizon of some of the most modern and exciting developments in the field of Chemistry.

Another important speaker who might talk for us in one of the morning sessions is Dr. George Boggs, Palomar College's former president and at the time CEO of the AACC in Washington D.C.

The theme for the meeting is **CHEMISTRY and OTHER FIELDS**, how chemistry connects to other subjects, such as Archaeology, Photography, Botany, Mathematics, Criminology, Medicine, Art, Music, Fire Prevention etc., etc.. I have a few speakers lined up already that address some of these fields. Of course emphasis is always placed on the connection to the Community College scenario. All these interesting topics are introduced to “ignite” and motivate the minds of both teacher and student and enhance the teaching/learning process.

Beside talks and/or papers relating to our given theme, any topics are welcome for the upcoming conference. Please note that a special website will be set up soon for our particular meeting as link to my personal website at Palomar College.

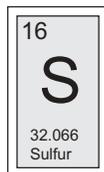
As usual there will be ample space for exhibitors. I will try to get some Molecular Modeling Companies such as SPARTAN to give small workshops.

We have a beautiful new Student Union building that looks like an Airport with ample space and amenities, so that I will consider also making room for poster presentations, so if anyone would prefer to show their topic as a poster and not give a talk, he/she is welcome to do so. There will also be an art/photography exhibition relating to “chemistry as an art” – send us your work or have it ready for exhibit when you arrive! It is also planned to provide a printed Proceedings of the conference contributors. Start sending your abstracts (bheinz@palomar.edu)!

The dinner will be hosted by Palomar College in the new Building as discussed above. An excursion is also possible to the Wild Animal Park where we could have a cocktail mixer.

The weather in March will most likely be beautiful, sunny and comfortably warm. Everything is within a half to one hour drive – the ocean and beaches, the desert, the mountains (Mt. Palomar Observatory – tours can be arranged), San Diego and last not least Mexico!

I am hoping that you will definitely come to our meeting and help make it a most memorable event! The preliminary program will be available in the next issue of this publication.



S p o n s o r

We thank our industrial sponsors for their continuous support. Because of our industrial sponsors, we remain at the forefront of the latest in educational technology and pedagogy. We appreciate their support at our conferences and look forward to a continued relationship..

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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. (As soon as possible!)
- 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 postmarked 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.

Remember our colleagues in Canada! Attending a meeting in Canada can be a rewarding experience.

College Chemistry Canada
32nd Annual Conference
St. John's, Newfoundland
June 16-19, 2005

for info, www.c3.douglas.cd.ca or
John Olson, President of C3 olson@augustana.ca

In our last issue of the Chemistry Outlook we inadvertently neglected to thank North Iowa Area CC for their college sponsorship.

Thank you North Iowa Area Community College!

THOSE WHO CAN TEACH!

Do you want to help your adjunct faculty? We recommend the following publication from the ACS.

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