

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

Sonja E. Davison
Tarrant County College
Hurst, TX 76054

Hello to all

The 166th Conference in Irvine is now but a memory. However, I am still grading papers that accumulated in my absence. That seems to be the consequence of attending meetings.

I think I speak for all the attendees of the Irvine conference when I say it was an exceptional meeting. Southern California certainly glows in March, and the Concordia University campus was an especially beautiful setting for the meeting.

The theme "Chemistry Education: New Ideas and Their Implementation" hardly conveys the breadth of topics covered. Keynote speakers Paul Kelter and Glenn Crosby both gave talks that can only be described as inspirational. Kelter addressed global issues including the current inequity of opportunity to participate in the educational process. He informed our group of a newly organized consortium of post-secondary institutions, the International Center for First-Year Undergraduate Chemistry (ICUC). The organization seeks to emphasize the common goals of chemistry educators worldwide and to encourage collaboration among two-year and four-year colleges. Dr. Crosby's long teaching career provided the material for his address, "New Wine in New Bottles: The Challenge of Teaching Modern Chemistry." He shared many experiences and insights, and I will always remember his one-line bit of advice in dealing with a classroom full of students: "Let them see you think."

There were so many excellent talks – I wish that I could comment on each and every one of them. Speakers addressed such diverse educational methodologies as topical writing, computer simulations, "kicked-up" demos, Internet courses, molecular modeling, student research. There was something for everyone!

We were truly honored to have Dr. Charles Casey, ACS President, as our banquet

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Headline

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 Leavenworth, 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: Michaleen Lee

Email: leem@storm.bucks.edu

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

<http://2yc3.vinu.edu/>

**Dorothy and Moses Passer
Education Fund -
Applications Accepted Now**

Do you want to go to a conference, but can't afford it? Go to page 10 and see if you qualify for Passer Funds.

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speaker Friday night. He too addressed the theme of Challenges: Challenges for Chemists.

On Saturday morning, there were two concurrent sessions: Timothy Su presented a workshop on Calibrated Peer Review and several presenters outlined how they were able to set up very productive Chemical Technology Programs at various California institutions. The last two talks provided opportunities to hear about the experiences of both Walt Volland (from Spokane Community College) and Jimmy Reeves (from the University of North Carolina, Wilmington) in incorporating the Laboratory into distance learning classes.

John Kenkel, Program Chair, and John Kenney, Local Arrangements Chair, both did an excellent job in providing all participants with a truly memorable experience. I cannot thank them enough for all their hard work.

If you missed this conference, I hope you will be able to join us at another one in the near future. Tom Greenbowe informs us that the 18th BCCE scheduled for this summer at Iowa State is going to be outstanding. I hope to see many of you there.

You are all invited to the SERMACS-2004!

November 10-13, 2004

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

The North Carolina Section of the American Chemical Society and the 2YC₃ of the Division of Chemical Education invite you to attend and to present your work at the 56th annual Southeastern regional Meeting of the American Chemical Society and the 169th 2YC₃ Conference. The meeting will take place at the Sheraton Imperial Hotel and Convention Center, near the Raleigh-Durham International Airport. This hotel has excellent accommodations and food services. The world-renowned Research Triangle Park is defined by the cities of Chapel Hill, Durham and Raleigh, which are home to Carolina State University. The Park, which includes many prestigious organizations such as the National Institute for Environmental Health Sciences, GlaxoSmithKline, the Environmental Protection Agency, and IBM, is located in the piedmont region of North Carolina, about half way between the Smokey Mountains and the famous beaches of the North Carolina coast. In addition to being the home of three previous national champion college basketball teams, the Research Triangle offers many diverse cultural activities.

Highlights of the meeting will include a Symposium and Banquet honoring Professor Ernest Eliel, a Symposium in Frontiers of Chemistry and Medicine, a Symposium on "Revisiting the Organic Chemistry Curriculum", sponsored by 2YC₃, and a plenary lecture featuring Dr. John Fenn, Nobel Laureate in Chemistry, 2002. In total, the program will include 32 special events, workshops and symposia. For more information, contact the General Chair, Sol Levine at SERM2004@mindspring.com. For your 2YC₃ co-chairs, contact Clarita Bhat at ccbhat@aol.com; Susan Schwarz at sschwarz@cccc.edu and Tracy Cheatham at tcheatham@cccc.edu.

2004 COCTYC AND SUPPORT STAFF
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American Chemical Society
2004 Roster of Committee Members

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 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: _____

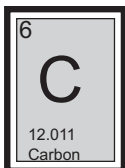
Send 2YC₃ Newsletter and CHED Newsletter to Home _____ Work _____

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

167th 2YC₃ Conference
18th Biennial Conference on Chemical Education
Iowa State University, Ames, Iowa 50011
July 18-22, 2004



Conference Program

Conference Website: <http://www.chem.iastate.edu/bcce/>

General Chair: Tom Greenbowe, Professor of Chemistry and Coordinator of General Chemistry, Department of Chemistry, Iowa State University, Ames, IA 50011 (515) 294-7718, 294-6352, 294-4050, FAX (515) 294-0105
BCCE@iastate.edu

2YC₃ Program Chair: John Kenkel, Southeast Community College, 8800 O Street, Lincoln, NE 68520 (402) 437-2485 jkenkel@southeast.edu

General Information About the 18th BCCE

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. 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.

An Overview of the Program for the 18th BCCE

The 18th Biennial Conference on Chemical education will take place at Iowa State University, Ames, Iowa, from July 18 through July 22, 2004. You are invited to be one of over 1,500 attendees who are expected in Ames. If you have never seen the corn and soybean fields of Iowa, be prepared to view over fifteen shades of green!

For the past two years, we have been working diligently to develop a program that you will find interesting and useful. Our national committee has worked hard to make sure that all levels of chemistry teachers will have sessions and workshops that will help improve how chemistry is taught and how students learn. All of the information about the conference sessions, workshops, speakers, etc. can be found on our web site: <http://www.chem.iastate.edu/bcce/>

Plenary Speakers and Keynote Speakers

Firouz Naderi, Director of Solar System Exploration Programs and Manager of the Mars Exploration Program, NASA's Jet Propulsion Laboratory; **John K. Gilbert**, Department of Chemistry, University of Reading, United Kingdom – Great Britan, and editor of the *International Journal of Science Education*; **Charles Casey**, Department of Chemistry, University of Wisconsin-Madison and President of the American Chemical Society; **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.

Symposia are organized around a variety of educational themes. Our symposium sessions start on Sunday at 1:00 PM and go through Thursday noon. Most symposia consists of a series of oral presentations accompanied by PowerPoint presentations to support visual presentation of data and ideas. Most presentations are allowed a maximum time length of 20 minutes, with 5 minutes for discussion. Other formats for symposia include panel discussion, demonstrations, and caucuses. All symposia sessions except for those that involve chemicals, will be in the Scheman Building. There will be symposia on green chemistry, nano-technology, teaching chemistry, the two-year college program, forensic chemistry, using computers to teach chemistry, assessing students' understanding of chemistry, chemical education research, and many more. There are over 60 symposia scheduled with 725 individual presentations.

Workshops offer individuals the opportunity to learn about a topic in-depth from science experts and or award winning teachers. The program for the 18th BCCE includes over 60 workshops. Our workshop sessions start at 9:30 AM on Sunday and go through noon Thursday. Workshops focus on wet and dry chemistry topics, teaching and learning with technology, discussion sessions, chemical instrumentation, chemistry demonstrations, and variety of other themes. Most workshops have a fee to cover the costs of the materials, supplies, audio-visual equipment and service, computers and computer service, bus shuttle service for participants to and from Gilman Hall, chemicals, and chemical waste disposal associated with the workshop. For most workshops, a modest ISU administration and conference service fee is applied. When possible, some workshops are offered free of charge. These workshops are often sponsored by companies or the workshops are classified as 'self-contained/low load'. You must pay an 18th BCCE conference registration fee to participate in a workshop. All workshops that involve chemicals or chemistry instrumentation will be in Gilman Hall. Workshops requiring participants to work on computers are scheduled in various buildings, in computer classrooms, on campus.

During **poster presentations**, a given poster presentation, covering a 4'x6' area, will be on view for at least two hours and will be attended by the author. Posters will be grouped by topics and displayed together. Our 18th BCCE poster sessions occur Monday afternoon, Monday evening between 7:00 PM –9:00 PM at our Sc-Mix session, and Tuesday morning from 9:45 AM–11:45 AM. All posters will be on the second floor of the Scheman Building.

A spacious **exhibition area**, on two floors of the Scheman building, will include 60 exhibition booths, as well as a hospitality center. A list of the exhibitors is available on this web site. A list of Exhibitors and a map of the Exhibit Area will be included in the Program Book. The exhibition area will be open Monday - Wednesday, including Monday night during Sci-Mix..

While you are in the mid-west, you will want to take advantage of the opportunity for day trips and/or travel to some of our historic places. Information on tours and other travel information are included in the Registration Book.

Tuesday, July 20, 2004

The Two-Year College Chemistry Consortium (2YC₃) will hold a membership meeting at 12:10 PM Tuesday, July 20, 2004. Matters to be discussed at the meeting include activities since the last meeting; update of membership, budget; a look at upcoming meetings.

Sonja E. Davison, Chair 2YC₃, SONJA.DAVISON@tccd.edu

Wednesday, July 21, 2004

The evening will close with the traditional ice cream social, sponsored by 2YC₃ and the *Journal of Chemical Education*. Officers and staff members from 2YC₃ and the *Journal of Chemical Education* will be on-hand to scoop ice cream and add your favorite toppings.

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 Transitions: Enhancing Student Success." 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, a poster session, and a symposium with panel discussions.

Do you know of resources and strategies that facilitate student transfer and support students transitioning between institutions? If so, please share them so they can be included in a resource packet that will supplement the program. Information should be sent to Jodi Wesemann (j_wesemann@acs.org or 1-800-227-5558 x4587).

The Society Committee on Education (SOCED), the Committee on Minority Affairs (CMA), and the Committee on Technician Affairs (CTA) are the program sponsors.

ChemTechLinks Conference 2004 "Critical Issues and Effective Practices in Chemistry-Based Laboratory Technology Education" July 16-18, 2004

Representatives from industry and academe are invited to attend this conference, where interactive technology and focus groups will be used to:

- identify critical issues facing chemistry-based laboratory technology education,
- explore factors influencing these issues,
- discuss effective practices for addressing these factors, and
- develop models for implementing selected practices.

The conference outcomes will be documented and disseminated in a report. The conference will benefit chemistry-based laboratory technology programs and industries that hire their graduates by:

- providing models that will improve training and education,
- increasing communication between stakeholders, and
- enhancing the visibility of chemical laboratory technology.

Please note that scholarships are available for academic participants. For more information and a registration form, go to our web site www.ChemTechLinks.org and click on the link to the conference web page.

Go to the BCCE website for online registration and on-campus housing.

Here are the tentative fees and costs for attending the 18th BCCE:

Registration Fees (more details will appear soon on the web)

Full conference before June 15, 2004: \$230 This covers registration for the entire week of the conference, Sunday, July 18 through Thursday, July 22. Includes one 18th BCCE Conference Badge; Sunday evening social, food and ticket for beverage; Monday Hawaiian Island Night, food and ticket for beverage; one Tuesday evening banquet ticket, admittance to Wednesday evening Galileo Players, Closing Ceremonies and the 2YC₃ Ice Cream Social; and one 18th BCCE Conference messenger bag with conference logo (bag only to the first 1,000 registrants).

Des Moines Airport to Ames and the ISU Campus Van Service

Iowa State University Conference Services will organize the vans from Des Moines airport to Ames/ISU Campus (and return). The request for van service between Des Moines and Ames and return will be included in the on-line conference registration (begins April 1). The cost is \$25 one way and \$50 for a round-trip.

Airline Travel and Rental Car Discounts

Travel and Transport (1-800-747-8182) will help you arrange airline travel and car rental reservations starting Monday, January 19, 2004. 10%-15% air travel discounts are available from American, Northwest, Delta, and United air lines. Avis is the official rental car company for the 18th BCCE. Travel discounts for attendees of the 18th BCCE are available if you state the official code phrase "ISU Chemistry Meeting". Travel and Transport will coordinate your air travel with the ISU Conference Service to keep track of you during your travel to Ames, Iowa. Travel and Transport also has a 24 hour emergency number you can use if necessary due to unexpected changes in your travel plans.

Washington College Chemistry Teachers' Association 12th Annual Conference/168th 2YC₃ Conference

October 14-16, 2004

Sleeping Lady Mountain Retreat, Leavenworth, Washington

It's time to mark your calendar and send in your registration for the fall meeting of the **Washington College Chemistry Teachers' Association Annual Conference**, held in conjunction with the **168th 2YC₃ Conference**. This year's meeting is again being held at the Sleeping Lady Conference Center on Icicle Creek outside Leavenworth, Wa. (Driving directions can be found at: <http://www.sleepinglady.com/about/map.php>) Off-site lodging and airport information will be available soon. We encourage staying at the lovely resort, as this is a unique experience!

Registration due: July 9, 2004 (A registration form is attached).

Schedule:	Thursday evening	Check-in/Dinner/Social gathering
	Friday	Keynote Address Presentations Vendor Displays Evening Entertainment
	Saturday	Presentations Business Meeting after lunch

We are looking forward to the usual exciting and informative presentations given by the attendees. If you have something you would like to present, let us know as soon as possible. (An abstract submission form is attached). If you are interested in giving a presentation on undergraduate research or other topics that focus on the junior and senior year, please contact Dr. George Kriz at: George.Kriz@wwu.edu

If you have chemistry colleagues who aren't on the WCCTA mailing list, please share this announcement with them.

We hope you will attend and that you will send in your registration (and an abstract) soon. **Sleeping Lady requires our money by July 9, 2004, or we run the risk of losing rooms!**

Mary O'Brien, Sara Selfe, and Mary Whitfield (Edmonds Community College)
Linda Kuehnert and Clarita Bhat (Shoreline Community College)

Washington College Chemistry Teachers' Association
12th Annual Conference/168th 2YC₃ Conference
October 14-16, 2004

Sleeping Lady Mountain Retreat, Leavenworth, Washington
Registration Form

Name: _____ M _____ F _____

Institution: _____

Address: _____

email address: _____

Phone number: _____

Roommate choice(s): _____

Do you plan to give a presentation? _____ Yes _____ No

If part-time, are you interested in a stipend (\$100) to help defray conference costs?

_____ Yes _____ No

FEES

Prices for the conference including lodging, meals, and registration are as follows:
(prices include all taxes and service fees)

	<u>One night</u>	<u>Two nights</u>
Single room (one person)	_____ \$240	_____ \$480
Double room (two people)	_____ \$175	_____ \$350
Triple room (three people)	_____ \$150	_____ \$300

Off-site fees: _____ \$110 for one day (includes 3 meals)
_____ \$220 for two days (includes 6 meals)
_____ \$20 registration, no meals (current 2004 2YC₃ members)
_____ \$35 registration (includes 2004 2YC₃ membership)

Fees for spouse or guest are the same.

Total Enclosed: _____

Make Checks Payable to WCCTA and return with this form to:

Carole Berg, WCCTA Treasurer
Science Division
Bellevue Community College
3000 Landerholm Circle S.E.
Bellevue, WA 98007

*****Please Return ASAP*****

Washington College Chemistry Teachers' Association
12th Annual Conference
168th 2YC3 Conference
—Abstract Submission Form—

We hope you will consider making a presentation at the annual conference being held at **Sleeping Lady Mountain Retreat, Leavenworth, Washington** October 14-16, 2004. Share a new curriculum you've designed, a new lab you've developed, ideas from a conference or workshop you've recently attended, or results from a research project you've been working on. To ensure a place on the agenda, return your proposal to Mary O'Brien ASAP at:

mobrien@edcc.edu

or mail to:

Mary O'Brien
Edmonds Community College
20,000 68th Ave. W.
Lynnwood, WA 98036

Name: _____ Institution: _____

Title/Topic: _____

Abstract: _____

_____.

What equipment will you need for your presentation?

Overhead Projector Slide Projector Internet Access
 Multimedia Projector Other

Expected length of presentation (including time for questions):

30 minutes 45 minutes 60 minutes Other _____

Do you have a preferred time slot?

No Yes (If yes, what time?) _____

Consider what C₃S can do for you!



The College Chemistry Consultant Service (C₃S) consists of independent chemistry educators who, upon request, offer advice to academic institutions. As described in "C₃S and Two-Year Colleges: A Partnership for Progress" (Susskind, T. Y. *J. Chem. Educ.* **2003**, *80*, 990-991), C₃S consultants can provide expertise on a wide range of topics, including those that are unique to two-year colleges. Financial support for consulting visits is available. To learn more, visit chemistry.org/education/institutional/c3s.html, e-mail C3S@acs.org, or call 1-800-227-5558 x6124.

The Dorothy and Moses Passer Education Fund - Application Accepted Now

The fund was established by a generous donation of Dorothy and Moses Passer. Moses (Mike) Passer was for many years the head of the ACS Education Division. The fund supports grants which are to provide support for teachers in small programs at two- and four-year colleges and universities that do not have any advanced degree programs in the chemical sciences. The awards are to support continuing education that must be directly related to the applicant's teaching and must take them away from their campus. The applicant must be a full time faculty at his or her institution. The applications are reviewed by a committee. There is no application form but the application must include a description of the proposed activity and how it relates to his/her teaching with dates, locations, titles, and contacts; a brief description of the applicants institution and department; a short curriculum vita; an itemized estimate of expenses, amount of aid requested and sources of all supplemental funds. No support will be given for general attendance at national, regional, or local ACS meetings nor for any sabbatical support. Closing dates are three times each year: January 1, April 1, and September 1. Electronic applications are preferred. For further information or inquiries contact Donald E. Jones, djones@erols.com; mailing address: 3726 Connecticut Avenue, NW, Apt. 108, Washington, DC 20008

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 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.

Houghton Mifflin *Chemistry* 2004



Zumdahl
Introductory Chemistry:
A Foundation, 5/e
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0-618-30499-1 • Chs. 1-20

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(See Diana Mason in *J. Chem. Educ.* **2001**, 78, 158-160.)

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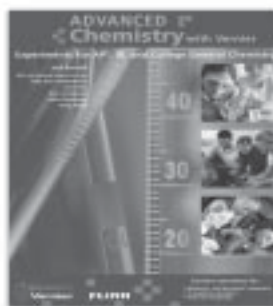
Dissertation research projects available in Chemical Education alone or in combination with any of eleven areas of chemistry:

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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,
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