

# Chemistry Outlook

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



Clarita Bhat, 2002 Chair

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### Clarita Bhat

Shoreline Community College  
Shoreline, WA 98133

#### Greetings from the Chair!

The leaves are turning, the morning breeze is a little cooler and the sun is setting earlier. Even though there are still many sunny days ahead we feel that fall is arriving slowly and with it, a wonderful new school year. To all of my colleagues in the teaching profession, and to all who support it, I wish for you the best year ever! After attending the 17<sup>th</sup> BCCE just two weeks ago, and listening to many of your creative teaching ideas, I know that we are looking ahead to new and exciting classroom presentations.

This time I would like to share with you a few of the highlights of the 17<sup>th</sup> Biennial Conference on Chemical Education. Undoubtedly, you have all heard about it and know all the details. As many of you who plan conferences, you know that this has been in the works for four years. We were all looking forward to the event and hoping that all the planets be aligned correctly for good weather, good speakers and good attendance. I am happy to say that it all happened....eventually!

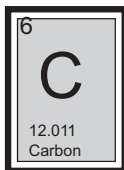
Close to 1300 of your colleagues came from many states and foreign countries to enjoy the presentations and soak in the beauty of the Northwest. The setting was magnificent, with green trees and majestic mountains. It was all so idyllic, even starting with the first morning. The opening ceremonies on Sunday, July 28<sup>th</sup> were successful and the auditorium was packed!. Everyone was marking on their planner the symposia and presentations they planned to attend on Monday morning. We woke up in the hotel with such anticipation...to total darkness! For some unknown reason, most of the city of Bellingham lost power. As I drove to the University I never dreamt that it also was in total darkness. What an amazing event! One never knows what exciting event you will encounter at our conferences. Don't you dare miss the next meeting!. The power was not turned on until noon. In the meantime, participants used flashlights in the rest rooms, crowded in the airy gym where the exhibitors demonstrated that some of the equipment could run on batteries, what a selling point! Doors were propped open; vending machines were useless, cafeterias and convenience stores could not sell any food or drink unless one had exact change. Through all this, something magical happened: Many presentations went as planned; some speeches were held outside on the lawn or on benches; some in the classrooms with blackboards and

*continued on page 2*

### INSIDE THIS ISSUE

Vol. 2002 - IV

|      |                                      |
|------|--------------------------------------|
| 1, 2 | Notes from the Chair                 |
| 2    | Conference Calendar                  |
| 3    | 2002 COCTYC and Support Staff        |
| 4-7  | 161 <sup>st</sup> Conference Program |
| 8    | Statements from Candidates           |
| 9    | College Sponsors                     |
| 10   | 162 <sup>nd</sup> Conference         |
| 11   | Advertisers                          |



## Conference Calendar

### 2002-2003 Academic Year

#### 161st Conference (Midwestern)

Nov. 8-9, 2002

<http://www.kckcc.edu/2YC3/>  
Kansas Community College  
7250 State Avenue  
Kansas City, KS 66112

Contact:

Ed Kremer  
Email: [ekremer@toto.net](mailto:ekremer@toto.net)  
Phone: (913) 288-7111

#### 162nd Conference (Southern) ACS National Meeting, New Orleans, LA, March 23-27, 2003

March 21-22, 2003

Delgado Community College  
City Park Campus  
New Orleans, LA

Contact:

Tom Gruber  
Phone: (504) 361-6410  
Email: [tagruber@aol.com](mailto:tagruber@aol.com)

#### 163rd Conference (Southern) ChemEd 2003

July 27-31

Auburn U, AL

CONSULT THE 2YC<sub>3</sub> WEBSITE,

<http://2YC3.vinu.edu>,

FOR THE LATEST UPDATES ON FUTURE  
CONFERENCES!

*continued from page 1*

chalks (do you remember those?). Everyone maintained a good attitude and found conventional means of passing the time: Walking and visiting with others. Educators and scientists are so flexible, patient and creative. Nothing can dampen the spirits of chemists!

As the lights came on, the presenters proceeded with their symposia and workshops. The cloudy weather eventually gave way to filtered sunshine, and by Wednesday, the whole campus sparkled with sun and warmth.

On Monday afternoon, Carole Berg, from Bellevue Community College, received a standing ovation from a packed auditorium for her rendition of Madame Curie. This event, along with the ice cream social that followed it, was planned by our 2YC<sub>3</sub>, and judging from the response and the huge crowd, a wonderful success.

Tuesday started with a 7:00 am 3.1-mile fun run through scenic Bellingham. There were quite a few participants who enjoyed the exercise. The poster session sponsored by CHED highlighted all of the active committees, and I am happy to say that 2YC<sub>3</sub> occupied three posters, with banners and handouts. During the noon break, we had our Membership Meeting and 21 members attended! It was a very enthusiastic, spirited group and we had a very productive meeting.

Even though I did not get the chance to listen to many papers, I did enjoy the Symposium on General Papers dealing with Laboratory Innovations, and the Revisiting the General Chemistry Curriculum symposium very skillfully organized by Robin Terjeson and Rick Bolesta.

When I drove home after the BCCE, I had much to think about. I had once again renewed my respect for all of you, learned some valuable new techniques for grading labs and presenting lecture material and above all, saw many of my colleagues again. It was like family week! I can't wait until the next meeting. It will be soon.

**Have you paid your 2YC<sub>3</sub> dues for the year 2002 yet? The cost, \$15, is a small price to pay for the many benefits of belonging to the organization. Please continue to support the activities of the 2YC<sub>3</sub> by paying your dues.**

A membership form is located on page 3. Consult our membership chair, Dolores Aquino, [DCAquino@Compuserve.com](mailto:DCAquino@Compuserve.com), with any questions.



*BCCE Conference Meeting: (l to r) Dick Jones, Clarita Bhat, Frank Koch, Carol Handy, Bill Haley, Sonja Davison*

## 2002 COCTYC AND SUPPORT STAFF

Division of Chemical Education, Inc  
American Chemical Society  
2002 Roster of Committee Members

### Chair

Clarita Bhat, Shoreline Community College  
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### Chair-Elect

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500 College Drive, Mason City, IA 50401  
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### Membership Chair

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### Industrial Sponsor Chair

Michaeleen Lee, Bucks County Community College  
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### Newsletter Editor

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or Email: [chandy@pcc.edu](mailto:chandy@pcc.edu)

### Immediate Past Chair

Frank Koch, Bismarck State College  
1500 Edwards Ave., Bismarck, ND 58501  
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### Past Chairs (Members of COCTYC)

Rick Bolesta, Mt. Hood Community College  
26000 SE Stark St., Gresham, OR 97030  
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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)

### 2YC<sub>3</sub> 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 dues for 2YC<sub>3</sub> 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 2YC<sub>3</sub> for only \$30.00, 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 \$30 (joint membership) to: Dolores C. Aquino, San Jacinto College Central, 8060 Spencer Highway, Pasadena, TX 77501-2007

**161 st Conference**  
**“The Changing Face of Chemical Education”**  
**November 8 & 9, 2002**  
**Kansas Community College**  
**7250 State Avenue, Kansas City, KS 66112**

## Program Chair

Dr. Edward Kremer  
Division of Math/Science/Technology  
Kansas City Kansas Community College  
7250 State Avenue  
Kansas City, KS 66112  
E-mail: [ekremer@toto.net](mailto:ekremer@toto.net)  
Phone: (913) 288-7111 or 7631

## Exhibits Chair

Dr. Alan Colen  
Division of Math/Science/Technology  
Kansas City Kansas Community College  
7250 State Avenue  
Kansas City, KS 66112  
E-mail: [acolen@toto.net](mailto:acolen@toto.net)  
Phone: (913) 288-7117

## Local Arrangements Chair

Dr. Ron Budhram  
Division of Math/Science/Technology  
Kansas City Kansas Community College  
7250 State Avenue  
Kansas City, KS 66112  
E-mail: [rbudhram@toto.net](mailto:rbudhram@toto.net)  
Phone: (913) 288-7401

**For Further Information and Updates Follow  
the Link to the 161st 2YC3 Conference Web  
Site:**

<http://www.kckcc.edu>

## Friday, November 8<sup>th</sup>

- 8:00-9:15**      **Continental Breakfast and Exhibitor Demos**
- 9:15-9:30**      **Welcome and Opening Remarks,**  
**Room 2705**      Tom Burke, President, Kansas City Kansas Community College
- 9:30-10:30**      **Keynote Address**  
**Room 2705**      Joe Heppert, Director, KU Center for Science Education, University of Kansas, Lawrence, KS
- 10:30-10:45**      **Refreshment Break-Exhibit Area**
- 10:50-11:20**      *Opportunities for Chemistry Teachers and Undergraduate Students*  
**Room 2705**      Ron Rilemna, Wichita State University, Wichita, KS
- 11:25-11:55**      *4MAT, A Learning Cycle: Reacting in General Chemistry*  
**Room 2705**      We need to be better at involving students with real problems solving, in situations they care about. General Chemistry will be the content for an example of the 4MAT cycle.  
Pat Schroeder, Johnson County Community College, Overland Park, KS
- 12:00-1:30**      **Hot Lunch (Business Meeting)**
- 1:45-2:15**      *Technology for Classroom/Online Teaching*  
**Room 2705**      The use of Macromedia in the development of interactive chemistry courses.  
Ron Budhram, Kansas City Kansas Community College, Kansas City, KS
- 2:20-2:50**      *Online Teaching*  
**Room 2705**      Teaching introductory chemistry and lab via the Internet and WEBCT.  
Kim Karr, Butler County Community College, El Dorado, KS

- 2:55-3:25**      *Developing an Electronic Textbook—Organic Chemistry*  
**Room 2705**      David Shubert, Newman University, Wichita, KS
- 3:30-4:00**      *Engaging your students in distance classes- increasing student success.*  
**Room 2705**      View an Internet Chem I class and preview an Online Laboratory Class.  
                     Donnie Byers, Johnson County Community College, Overland Park, KS
- 4:05-4:20**      **Refreshment Break-Exhibit Area**
- 4:25-5:15**      Online Group Discussion Section
- 5:15-6:00**      **On Your Own**
- 6:00-6:30**      **Social Mixer**
- 6:30-9:00**      **Dinner Banquet and Address Co-Sponsored with The Kansas City Local ACS**  
                     Busch, Daryle H., President of the American Chemical Society, 2000

## Saturday November 9<sup>th</sup>

- 8:00-9:15**      **Continental Breakfast and Exhibitor Demos**
- 9:20-9:50**      *Eight Years and \$ 1 Million Later .... My NSF Grant Projects*  
**Room 2705**      John Kenkel, Southeast Community College, Lincoln, NE
- 9:55-10:25**      *Chemical Safety*  
**Room 2705**      Charles Greenleif, Emporia State University, Emporia, KS
- 10:30-10:45**      **Refreshment Break-Exhibit Area (Door Prizes)**
- 10:50-11:20**      *Chemistry Students Indicators: Curricular Equilibrium.*  
**Room 2705**      What do students have to show upon the completion of your class?  
                     Curriculum changes in the making  
                     Robert Carlson, Butler County Community College, El Dorado, KS
- 11:25-11:55**      *Forensic Chemistry in the Classroom-Crime-Lab and Lab-Crime Scenarios*  
**Room 2705**      Bettina Heinz, Palomar College, San Marco, CA
- 12:00-12:40**      **Box Lunch**
- 12:45-1:15**      *Algebraic and Scientific Thinking for Middle School Teachers*  
**Room 2705**      A presentation on a collaborative Eisenhower Grant between the KCKCC Math and Science Department and KCK  
                     Public Schools.  
                     Ernie May, Kansas City Kansas Community College, Kansas City, KS
- 1:20-2:50**      *Vernier Hands-on Data Collection with Computers and Handhelds*  
**Room 3507/56**      This workshop offers you hands-on experience collecting and analyzing chemistry data using the versatile Vernier  
                     LabPro® interface. See how this popular system can be used to conveniently collect data using computers, TI  
                     graphing calculators, or Palm™ handhelds.. Data will be collected using sensors such as Temperature, Pressure, pH,  
                     Conductivity, and Colorimeters. A variety of experiments from the popular Vernier lab manuals *Chemistry with*  
                     *Computers* and *Chemistry with Calculators* will be offered.  
                     Jack Randall
- 2:55-3:45**      **Grande Finale-Chemical/Forensic Demonstrations**  
**Room 2705**
- 3:50-4:05**      *Closing Remarks*  
**Room 2705**      Dr. David Klein, Dean of Math Science & Technology, KCKCC, KS
- Excursion to the Plaza**



# 161<sup>st</sup> Midwest Conference

Friday, November 8 to Saturday, November 9, 2002

Kansas City Kansas Community College  
7250 State Avenue, Kansas City, KS 66112

## Directions

From the Airport Exit, take I-29 North (left turn) to I-435 South (about 5 minutes). Stay on I-435 South until you reach I-70 East (about 20 minutes). Take I-70 East to 40 Hwy, Exit 415B (about 5 minutes). Go North to State Avenue (first traffic light) and turn left. Once on State Avenue turn right onto campus at the first traffic light.

You may exit to the Motels from I-70 East by taking Exit 414 to 78<sup>th</sup> Street. Turn left for **MicroTel**, which will be on your right. Turn right for **Comfort Inn**, which will be on your right.

**Hampton Inn** from Airport: Take I-29 North (left turn) to I-435 South (about 5 minutes). Stay on I-435 South to Exit 5 (Midland Drive). Distance approximately 30 miles.

From MicroTel or Comfort Inn to KCK Community College, take 78<sup>th</sup> street North to State Avenue. Turn right onto State Avenue heading East. The College will be on your left.

From Hampton Inn to KCK Community College, take I-435 North to I-70 East. From I-70 East, take Exit 415B to 40 Hwy. Go North to State Avenue (first traffic light) and turn left. Once on State Avenue turn right onto campus at the first traffic light.

## Conference Lodging

**Microtel Inn & Suites** (about 1.5 mile from Conference)

7721 Elizabeth Dr.

Kansas City, KS 66112

Ph: (888)771-7171 or (913)334-3028

Fax: (913)334-5983

\$49 for single (12 available), \$59 for double (34 available), \$65 for suite (14 available).

60 rooms reserved until 10/7/02. (ask for 2YC<sub>3</sub> conference group rate).

Comment: This is a new motel across from the Comfort Inn and very close to the conference. It is conveniently located off I-70 and 78<sup>th</sup> Street next to the Cracker Barrel restaurant and very close to the conference. 60 rooms reserved until

**Comfort Inn** (about 1.5 mile from Conference)

234 N. 78<sup>th</sup> Street

Kansas City, KS 66112

Ph: (913)299-5555, Fax: (913)299-5505

\$65 for single rooms, up to 2 persons, 1 or 2 beds. 30 rooms reserved until 10/21/02.

(ask for 2YC<sub>3</sub> conference group rate).

Comment: Conveniently located off I-70 and 78<sup>th</sup> Street across from Microtel which is next to the Cracker Barrel and very close to the conference.

**Hampton Inn** (about 12 miles from Conference)

16555 Midland Dr.

Shawnee, KS 66217

Ph: (913)248-1900

Fax: (913)248-8567

\$80 for double with 2 queen beds

Comment: located 30 miles from airport and 12 miles from Conference. 127 Deluxe Guest Rooms available, including 8 Jacuzzi Suites. Several fine restaurants and 18-Screen Movie Theatre located within walking distance.

Contact Dr. Ron Budhram ([rbudhram@toto.net](mailto:rbudhram@toto.net)) for lodging questions.

**PLEASE SEE THE CONFERENCE WEB SITE, <http://www.kckcc.edu/2YC3/>, FOR A  
MAP OF THE AREA!**

## Pre-Registration (161<sup>st</sup> Conference, Kansas City, KS)

Name \_\_\_\_\_

Institution \_\_\_\_\_

Address \_\_\_\_\_

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

Phone \_\_\_\_\_ E-mail \_\_\_\_\_

Your current 2002 Membership: 2YC<sub>3</sub> \_\_\_\_\_ ACS \_\_\_\_\_ DivCHED \_\_\_\_\_

Teach at: 2-yr. College \_\_\_\_\_ 4-yr. College \_\_\_\_\_ High School \_\_\_\_\_

### Conference Fees:

2YC<sub>3</sub> Membership if not already member            \$15    \$ \_\_\_\_\_

Conference Registration                                \$15    \$ \_\_\_\_\_

Friday Evening Banquet                                \$30    \$ \_\_\_\_\_

Friday Lunch - Will Be Provided                    \$0    \$ \_\_\_\_\_

Saturday Box-Lunch                                      \$6    \$ \_\_\_\_\_

**TOTAL \$ \_\_\_\_\_**

Send registration form and check (payable to KCKCC/2YC<sub>3</sub>) by October 15 to:

Dr. Ron Budhram  
161st 2YC<sub>3</sub> Conference  
Division of Math/Science/Technology  
Kansas City Kansas Community College  
7250 State Avenue  
Kansas City, KS 66112

## Elections and Membership Renewals!

Look for your ballots and membership renewal notices (2003) in the fall (November or early December) of 2002. Please renew your membership promptly and vote. The completed ballots must be postmarked by December 31 and the results will be announced in the first issue of the Chemistry Outlook in 2003.

*We have a choice of two excellent candidates for our 2004 Chair Elect position, Bettina Heinz and Ed Kremer. Please read the following statements submitted by the two candidates and please don't forget to vote!.*

**Bettina Heinz** is a German born US citizen, who grew up in both countries. She received her PhD in Organic Chemistry at the Goethe University in Frankfurt am Main. Her Masters Degree she completed at the Max-Planck-Institute for Biophysics for a Biochemistry-Origins of Life theme, which she still pursues as major research interest. She also received educational degrees in teaching for technical and vocational institutions. For many years she was the main assistant to the Director of Chemistry for Medical and Dental students at Frankfurt University as well as adjunct professor for the University of Maryland overseas program (Europe and Asia). Since 1990 she is an associate professor in Chemistry (mainly Organic and Bio-chemistry) at Palomar College and a few years later became an adjunct professor for the newly founded campus for the California State University in San Marcos. Recently she acted as program chair for a 2YC<sub>3</sub> meeting in San Diego (City College), which she enjoyed so much, that she is eager to do one again, possibly in 2005 in Palomar College. Over-all she is a highly motivated, enthusiastic, and dynamic individual. As a creative person with the proper administrative help she can "move mountains" or leave them where they are, if necessary.

I am an Associate Professor of Chemistry and academic coordinator of chemistry and biology at Kansas City Kansas Community College. After completion of my B.S. in Chemistry from Central Missouri State University and my Ph.D. in Biochemistry from the University of Missouri-Kansas City, I taught high school chemistry for three years. I began full time teaching at KCKCC in 1999. In this position I strive to improve science education in the classroom and the community at large. I serve as the KCKCC coordinator of the High School Saturday Science Academy, as a member of the Kansas Common Core Competencies for Chemistry Committee, and as part of the Kansas Collaborative for Excellence in Teacher Preparation. I am proud of having developed an Associates Program in Forensic Science, and received the NISOD Excellence in Teaching Award. I am actively involved in the 2YC<sub>3</sub>; having presented and participated in several conferences; and serving as program chair for the 161<sup>st</sup> 2YC<sub>3</sub> Conference. This involvement has given me an appreciation for the organization and an insight into areas of concern for the 2YC<sub>3</sub>. As an organization we need to increase our presence on the Web, our accessibility as a resource to members, and our outreach to high school teachers. I look forward to addressing these issues and would welcome the opportunity to serve as your Chair-elect.

Sincerely, **Edward A. Kremer**

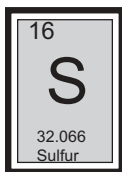


Frank Koch and Clarita Bhat at the Fun Run. Guess who ran the race!



Enjoying the ice cream social: John Clevenger, Carol Handy, and Rick Bolesta.





# SPONSORS

## College Sponsors

Thank you to all of the College Sponsors who contributed in so many ways to the successful programs of the 2YC<sub>3</sub>. Many of these colleges have been supporting our efforts for many years not only with their continuous membership, but also by supporting their chemistry teachers in the activities of the 2YC<sub>3</sub>. Membership of 25 years and more is marked by \*. A College Sponsorship requires a nominal yearly fee of \$25. Encourage your college to become a sponsor.

Aims Community College, CO  
Allegany Community College, MD  
Alvin Community College, TX  
Amarillo College, TX  
Anne Arundel Community College, MD  
Anoke-Ramsey Community College, MN  
Athens Area Technical Institute, GA  
Atlantic Cape Community College, NJ  
Baltimore City Community College, MD  
\*  
Bellevue Community College, WA  
Bergen Community College, NJ  
Blinn College, TX  
Brazosport College, TX \*  
Broome Community College, NY  
Bucks County Community College, PA  
Burlington Community College, NJ \*  
Cape Fear Community College, NC  
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Community College, OH  
Clackamas Community College, OR  
College of DuPage, IL  
College of Lake County, IL \*  
College of Southern Idaho, ID  
College of Southern Maryland, MD \*  
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Collin County Community College, TX  
Community College of Baltimore County-  
Essex, MD \*  
Community College of Philadelphia, PA  
Community College of Rhode Island, RI \*  
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Cuyahoga Community College Western,  
OH \*  
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Donnelly College, KS  
El Camino College, CA \*  
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NY  
Essex County College, NJ  
Foothill College, CA

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Gloucester County College, NJ  
Grand Rapids Community College, MI  
Highland Community College, IL  
Holy Cross College, IN  
Holyoke Community College, MA \*  
Houston Community College System, TX  
Hudson Valley Community College, NY  
Hutchinson Community College, , KS  
Ivy Tech-Muncie, Anderson, Marion, IN  
Jackson Community College, MI \*  
Jamestown Community College, NY \*  
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Kansas City, Kansas Community College,  
KS \*  
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City, MO \*  
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Monroe Community College, NY \*  
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Mott Community College, MI \*  
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Muskingum Area Technical College, OH  
Navarro College, TX  
New York City Technical College, NY \*  
Normandale Community College, MN  
North Harris College, TX  
North Iowa Area Community College, IA \*  
North Lake College, TX  
Northampton Community College, PA  
Northeast Texas Community College, TX  
Oakton Community College, IL

Olympic College, WA  
Ozarks Technical & Community College,  
MO  
Portland Community College, OR  
Prairie State College, IL \*  
Prince George's Community College, MD  
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San Jacinto College - Central, TX  
Schoolcraft College, MI  
Seattle Central Community College, WA \*  
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Sierra College, CA  
Sinclair Community College, OH \*  
South Arkansas Community College, AR  
South Suburban College, IL  
Southwestern College, CA  
St. Louis Community College – Flo  
Valley, MO  
St. Louis Community College – Meramec,  
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