

# **Chemistry Outlook**

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



Bill Haley, 2003 Chair

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# otes From The Chair

Bill Haley San Antonio College San Antonio, TX 78212-4201

This is my last chance at getting this column right since my term of office expires December 31 and this is the last issue of Chemistry Outlook for the year! It has been a great year because of the contributions of many people. First of all I would like to thank the members of the executive committee who have made my life much easier because of good advice based on their knowledge and experience. Carol Handy has done a great job of getting the Chemistry Outlook published in a timely fashion in spite of many obstacles and problems which arise on the way to the deadlines for each issue (like when the Chair's Notes are late).

The next group I would like to thank is those stalwart members who have taken on the challenge of putting on our conferences this year. The year started off with the great conference (162<sup>nd</sup>) at the City Park Campus of Delgado Community College in New Orleans. It was chaired by Tom Gruber and assisted by his lovely wife. Tom is a great guy to know and he has been an outstanding supporter of 2YC, for many years. He has served as chair of the organization and also has chaired other conferences in the past. Carol White, another past chair, had the job of heading up our symposium at CHEMED 2003 at Auburn University in July. She was also a presenter and did a great job all around. Wheeler Conover and Sue Ballard have been working through the usual problems in preparing their first conference (164th) at Elizabethtown Community College in October. They seem to have things in hand. Dottie Stumpf has two co-sponsors for her November conference (165th), the New England Association of Chemistry Teachers and the University of Massachusetts at Lowell.

I would also like to thank John Kenkel for his support of 2YC<sub>3</sub> by organizing the Symposium on "Implementing Modern Chemical Education in the Two-Year College" at the ACS Fall 2003 meeting in New York. In addition John is coordinating 2YC3 involvement at the 18th Biennial Conference on Chemical Education at Iowa State University in late July 2004.

continued on page 2



Contact

# onference Calendar

## 2003-2004 Academic Year

# 165<sup>th</sup> Conference (Eastern)

November 14-15, 2003 Middlesex Community College http://www.middlesex.cc.ma.us/2yc3

> Lowell, MA **Dotty Stumpf**

Email: stumpfd@middlesex.cc.ma.us

# 166th Conference (Western)

March 26-27, 2004 Right before the ACS meeting in Anaheim, CA - March 28-April1, 2004 Please check the web for details.

### 167th Conference (Midwestern)

July 18-22, 2004 Biennial Conference on Chemical Education, BCCE, Iowa State U., IA http://www.chem.iastate.edu/bcce/

John V. Kenkel Contact

Email: jkenkel@southeast.edu

# 168th Conference (Western)

Early Fall, 2004 Edmonds Community College

Lynnwood, WA

Contact: Mary O'Brien

Email: mobrien@edcc.ctc.edu

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

Remember to check the web for information on future

meetings! http://2yc3.org or http://2yc3.vinu.edu/

# Attention All 2YC, Members!

All 2YC<sub>3</sub> members please watch for the renewal notices that will arrive toward the end of November. You will also receive a ballot in this mailing. Please consult the included qualifications of the candidates and vote for the candidate of your choice. You can also check the 2YC3 website for updated information on the candidates.

I hope those reading this newsletter have already joined 2YC<sub>2</sub> but, if you haven't, than by all means, go to the form in this newsletter, cut it out and immediately send it and a check for \$15 to Dolores Aquino. If you are not already a member of the Division of Chemical Education you can join both 2YC<sub>3</sub> and DIVCHED for \$30.

Next go to one of our conferences! Just attend or attend and make a presentation or help out in some way. When you register at the conference ask if there is a job that needs to be done. Attendance at a conference gives you a chance to connect with other community college teachers, high school teachers and university teachers as well. You will also get to meet authors of textbooks and book publisher representatives, scientific supply company representatives and representatives of instrument companies. All of that and the conference registration fee is generally only \$15! We encourage you to support our Industrial Sponsors who do an excellent job of keeping us up to date with information on their books, supplies, and instruments. A listing of our Industrial Sponsors was in the previous issue of this newsletter. You might next choose to become a member of a Regional Advisory Board and help out with a conference in your region. Someday you might even want to chair a conference. You will find that you get a great deal of support from the 2YC<sub>2</sub> organization which makes putting on a conference not quite as hard as it first appears.

I would also ask you to approach your Administration about becoming a College Sponsor for only \$25 per year. It is the least expensive institutional membership you can find. You will notice the listing of the current College Sponsors in this issue of the newsletter.

Finally, those of us on your executive committee would like to know what you feel we are doing right and what we might be doing wrong. We are always interested in improving the organization and we really would like to hear from you. We have been recently concerned about the fact that attendance at the conferences have been down for the last year and one-half. Is it the economy or the result of 9/11/01? We know that in many colleges the chemistry department consists of only one full-time chemistry teacher and perhaps one or two other part time teachers. That makes it difficult for you to feel like you can miss two days of class to attend a conference. How else could we serve you? Our addresses and email addresses are listed in each issue and direct your comments to any of us. We will work on solutions to any problems at upcoming executive committee meetings and in our informal email conferences. These issues can also be addressed at the general meetings of all members which are held at each conference.

I hope your fall semester or quarter is a great one!

### 2003 COCTYC AND SUPPORT STAFF

**Division of Chemical Education, Inc** American Chemical Society 2003 Roster of Committee Members

### Chair

Bill Haley, San Antonio College

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#### Immediate Past Chair

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### Past Chairs (Members of COCTYC)

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

2YC, World Wide Web Page: http://2yc3.org or 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 very 2YC <sub>3</sub> are \$15.00 and the dues for the Divisio Chemical Education, you can join the Divisio Renew my 2YC <sub>3</sub> membership I wish to*area.	on of Chemical Education are \$20.00. If on and renew your membership with 2YC	you are not now a mem	nber of the Division of vings of \$5.00.
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 Newslette Send ACS Member Form Yes No		-	
<b>2YC</b> <sub>3</sub> <b>Membership Information</b> : Are you a Two-Year College Teacher	er? Four-Year College T	eacher?	
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

# 165th 2YC3 Conference Middlesex Community College, Lowell, MA November 14-15, 2003

Integrating Food Chemistry, Health Science and Technology into the Chemistry Curriculum



# onference Program

http://www.middlesex.cc.ma.us/2YC3

**Program Chair: Dorothy Stump Middlesex Community College** Springs Road, Bedford, MA 01730

The theme of the 165th conference is Food Chemistry, Health Science, and Technology. The conference program is organized around three major areas:

- 1) Chemical Interactions between Health and Diet
- 2) Innovative Laboratory Experiments
- 3) Use of Technology and Active Learning in Chemistry Education.

Massachusetts' wealth of educational and industrial institutions have contributed mightily to a program balanced between cutting edge research and how-to methodology.

For the first time, the conference brings together three groups with a common mission: 2YC<sub>3</sub>, New England Association of Chemistry Teachers (NEACT), and the Science Teachers Area Resource Sharing (STARS), as well as two sister institutions, Middlesex Community College and the University of Massachusetts Lowell (UmassLowell)! We hope you will join your colleagues to learn and share in historic Lowell, often referred to as the Venice of America. Come earlier, stay later...there's a lot to do here.

Professional Development Points (PDPs) and Continuing Education Credits (CEUs) will be available.

# Friday, November 14, 2003

8:15-10:00	Registration and Complementary Continental Breakfast Doubletree Hotel Belvedere Room	
9:00-9:15	Welcome and Opening Remarks	
9:15-10:00	Panel: The Controversy and Chemistry of Genetically Modified Foods	

10:00-10:30	Refreshment Break - Exhibits Area at Middlesex Lower Cafeteria		
10:00-4:00	Registration and Exhibits - Middlesex Lower Cafeteria		
10:30-11:45	The Challenges of Determining Mercury Contamination in Biological Organisms: A Platform to Demonstrate Abstract Chemistry Concepts:  Presentation and Demonstration Using Cold Vapor AA and freshly caught fish!  Barbara A. Eddy, Chemist, Wall Experimental Station, Mass. Dept. of Environmental Protection; Adjunct Professor, Middlesex Community College		
10:30-11:15	Concurrent Sessions  A. Developing Students' Deep Understanding of the Scientific Method  Dr. Judith Kelley, UmassLowell		
	B. Grant Writing Panel How to Follow the Rainbow		
11:15-11:45	Concurrent Sessions A. Using Webquests to Teach Chemistry Mark Michalovic, Chemical Heritage Foundation (Tentative)		
	B. How Safe is Your Laboratory? Tips for Safe Laboratory Design		
11:45-12:15	Concurrent Sessions  A. Cutting Edge Research: Is Diet a Major Factor in the Occurrence of Alzheimer's Disease?  Thomas B. Shea, PhD, Center for Cellular Neurobiology and Neurodegeneration Research, UMassLowell		
	B. An Interdisciplinary Team Taught Course: Forensics and Chemistry Paul Patev, Professor of Biotechnology, Middlesex Community College (tentative)		
12:15-1:30	Lunch and walk to Jack Kerouac Park (two minutes from campus). Enjoy Lowell's ambience and our numerous ethnic restaurants.		
1:30-4:45	Tour of U.S. Army Natick Research, Development and Engineering Center (Natick Laboratories) (limit 14)		
1:30-4:00	Tour of the Nuclear Research Reactor at the UMassLowell (limit 20)		
1:30-2:00	Cutting Edge Research: Can Carotenoid Supplementation Increase Risk of Lung Cancer and Total Mortality? Results from Epidemiological and Animal Studies that Every Smoker Should Know.  Heather Mernitz, Tufts University Nutrition and Cancer Biology Laboratory., Friedman School of Nutrition and Public Policy		
2:00-2:30	Refreshments in Exhibit Area		
2:30-4:15	Workshop: Engaging Students with Active Learning Jessie Klein, PhD, Margie Larrousse, Middlesex Community College		
6:00 - 7:00	Social Hour - Wine, Cheese and Conversation		

7:00 - 9:00 Banquet and Presentation: Chemistry and the Evolution of Lowell - From Textile Chemistry to Information Technology to a Center for Arts and Culture

# Saturday, November 15, 2003

#### 8:15-4:00 Registration in Exhibits Area - Middlesex Lower Cafeteria

#### 8:15-9:00 Continental Breakfast - Middlesex Lower Cafeteria

#### 9:00 -9:45 **Concurrent Sessions**

**A.** Writing to Learn Using Calibrated Peer Review with Web-Based Technology Todd Wimpheimer, PhD, Department of Chemistry and Physics, Salem State College

B. The Latest Research on Feeding the U.S. Military Jeannette Kennedy, Food Technologist, U.S. Army Natick Research, Development and Engineering Center.

#### Break and Exhibits. 9:45-10:15

#### 10:15-12:15 **Concurrent Workshops**

A. What's All the Fuss about Fats? Teaching General Chemistry in the Context of Dietary Fats and Human Health

Heather Mernitz, Nutrition and Cancer Biology Lab, Tufts University, Friedman School of Nutrition Science and Policy

B. The Titration Project: Find Meaning and Have Fun Learning Acid/Base and Redox Chemistry Cary Kilmer, Research Experience for Teachers (RET) Program at M.I.T. Langer Laboratory

#### 12:15-1:30 Lunch and Concurrent Meetings of 2YC, and NEACT

- 1:30-3:30 Determination of Acid and Enzyme Activity as Indicators of Processing Efficiency in Food Sarmad Saman, PhD, Massachusetts Bay Community College
- 1:30-2:30 Engaging Students in Inquiry-Based Science Using "Science and Our Food Supply", an Interactive Curriculum.

Lanny Whitten, Kennebunk High School and NEACT Northern Division Chair

2:30-3:15 Panel and Discussion: Hybrid (Face-to-Face and Online) Courses: Teaching Chemistry Using Technology:

#### 3:15-3:45 **Discussion and Closing Remarks**

Open Discussion: How can our organizations collaborate to build a chemistry educators community? What value have you derived from attendance at 2YC, and NEACT and STARS meetings? What do you want to see in the future?

For all those who are interested, we plan to have dinner together on Saturday in Lowell at one of Lowell's many interesting restaurants (kids welcome). If you are game for more activity after dinner we also have an excellent repertory theater, good music clubs, and the Lowell Lock Monsters, a professional hockey team. On Sunday morning, we can explore the historic Concord and Lexington area or take an interesting tour of the Lowell area before you head back to parts unknown.

Visit http://www.middlesex.cc.ma.us/2YC3 for abstracts and updates to the program and for numerous opportunities to play and learn in the Greater Lowell area. For more information email Dotty Stumpf at stumpfd@middlesex.cc.ma.us

# Accommodations: Doubletree Hotel, 15 Warren St., Lowell, MA

The Doubletree Hotel, adjacent to Middlesex Community College, has an award winning Italian restaurant, lounge, indoor pool, and fitness center. A block of rooms has been set aside until October 14 for conference participants. Conference rate is \$79.00.

Address: 50 Warren Street, Lowell, MA 01852 Phone: (978)452-1200.

The Doubletree is the only hotel close to Middlesex. Other hotels within easy driving distance are listed online at http://www.lowell.org/lowell.php (Merrimack Valley Convention and Visitor's Bureau). Click on "Accommodations". Information on the many museums, theater and sport facilities in Lowell are available at that website as well.

# **Directions to Middlesex Community College Lowell Campus**

# To Lowell Connector from:

Route 3 North - Take Exit 30N to the Lowell Connector

**Route 3 South** - Take Exit 30 to the Lowell Connector

**Route 495 North or South** - Take Exit 35C to the Lowell Connector

Massachusetts Turnpike and Points West - Mass Pike to exit 10 (Rte. 290 East) Follow Rte. 290 east to Rte. 495 North . Take 495 North to Lowell Connector (exit 35C)

# Logan Airport (Boston) or Points South

Exit airport following signs to Boston via Sumner Tunnel. Take Route 93 North to Route 495 South, to exit 35 C - Lowell Connector. (about 40 minutes)

Manchester Airport: Exit airport onto Brown Ave. Right onto Brown Ave. Left onto 293 N/101W. Shortly exit onto FE Everett Turnpike which turns into Rte. 3 South. Take Exit 30 to Lowell Connector. (about 40 minutes)

# From Lowell Connector to Middlesex Community College

Follow the Lowell Connector to end (Gorham St.). Turn left on Gorham to third light, right on Church St., first left on George. Doubletree Hotel is straight ahead. Park in adjacent Lower Locks Parking Garage. Walk beside the hotel across the bridge to the Middlesex Community College campus.

# For map of area, click on http://www.middlesex.cc.ma.us/info/MAPS.HTM

# **Alternate directions to the College and Doubletree Hotel from:**

Route 93 North or South- Take Exit 43 - Route 133W towards N. Tewksbury/Lowell

Route 495 N/S - Take Exit 39 - Route 133W towards N. Tewksbury/Lowell

Route 133W becomes Andover Street when you enter Lowell. Cross route 38, then right at second light (George St.), straight to hotel. Park in Lower Locks Parking Garage. Walk beside the hotel across the bridge to the MCC campus.

Limousine Service from Logan or Manchester: Call Flightline at 1-800-245-2525.

Taxis from Logan and Manchester are expensive, about \$60.

### CONFERENCE PRE-REGISTRATION

# 165th TWO-YEAR COLLEGE CHEMISTRY CONSORTIUM CONFERENCE

# **Explorations in Chemical Education Middlesex Community College** November 14 and 15, 2003

Name	_Institution	
Institution Address		
City		
		-
Phone Number(s)		
Email		
I teach at a 2-Yr College High School	4-Yr. College	
I plan to participate in the tour of: Natick Labsregistrants)	Nuclear Reactor	(Each limited to first 20
Conference Fees		
Registration (current 2YC <sub>3</sub> members) @ 20.00		\$
Registration (includes 2YC <sub>3</sub> membership) @ 35.00		\$
Friday Evening Banquet @ 25.00		\$
TOTAL		\$

Note: There is no conference fee for high school teachers or students.

**Meals**: A continental breakfast will be provided on both days of the conference.

Lunch will be on our own at any one of the many diverse restaurants within walking distance and will give us a chance to experience the very interesting downtown Lowell area.

Dinner will be preceded by a wine and cheese social. Let us know if you would like a vegetarian option.

Please make reservations for the banquet by November 10.

REGISTRATION for the 165th 2YC<sub>3</sub> Conference is available online at www.middlesex.cc.ma.us/2YC3.

If you register online, you may send your check (preferable) or bring it to the conference.

If you prefer to register by mail, please send your registration and check to:

Colleen Cox **Middlesex Community College** 15 Kearney Square Lowell, MA 01852

Make check payable to Middlesex Community College/2YC<sub>3</sub>.

Although you may register on the day of the conference, it is enormously helpful for us if you register in advance.

# An Interesting Conference right before the BCCE Conference in Iowa:

### **Linking Chemistry-based Laboratory**

### **Technology Programs with Local-Area Industry**

ChemTechLinks is sponsoring a conference that will highlight best practices in developing and maintaining alliances between chemistry-based laboratory technology programs and their local industries. Speakers and participants will share knowledge about alliance trends, characteristics, organization, function and the role of respective stakeholders. Special attention will be given to factors that influence and contribute to successful alliances and methods to evaluate alliance success.

The conference will be held from Friday evening, July 16 – Sunday morning, July 18, 2004, immediately preceding the 18<sup>th</sup> Biennial Conference in Chemical Education (BCCE) at Iowa State University of Science & Technology, in Ames, Iowa. Partial subsidies for attendance are available for a limited number of participants. For more information, please contact us at ChemTechLinks@acs.org.

ChemTechLinks is a resource center for all those interested chemistry-based technician education and is supported by a grant from the National Science Foundation (DUE 0053250).

ChemTechLinks

# What to Expect at the 169th 2YC, Conference:

Our 169th 2YC, conference will be held during the 2004 SE Regional ACS meeting. The event will be held at Research Triangle Park Area, North Carolina on Nov. 10 through Nov. 13, 2004. Sol Levine is the General Chair of the SERM 2004 and our capable 2YC, chair is Clarita Bhat (ccbhat@aol.com) from Shoreline Community College assisted by Hamid Shirzadi (shirzadi@gtcc.cc.cn.us) from Guilford Community College, as co-chair. The 2YC<sub>3</sub> will host a symposium on "Revisiting the OrganicChemistry Curriculum." Topics will include retention of students and using technology in the course.

# Be a mentor for the U.S. National Chemistry Olympiad program:

College educators are invited to apply for a position as mentor for the U.S. National Chemistry Olympiad program. Successful applicants are expected to have a broad background in organic, theoretical, and descriptive chemistry with classroom experience and must be prepared to make a three-year time commitment. ACS pays all expenses and travel costs, as well as an honorarium. The 2006 and 2007 IChO events are scheduled to be held in Korea and Lithuania, respectively. Interested individuals may obtain an application form at www.chemistry.org/education/student/olympiad/mentor.html. January 23, 2004 deadline



# **College Sponsors**

Thank you for 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 over 30 years not only with a membership, but also by supporting their chemistry teachers in the activities of the 2YC<sub>3</sub>.

Allegany Community College
Amarillo College
Anoka-Ramsey Community College
Atlantic Cape Community College
Bellevue Community College
Bergen Community College
Bismarck State College
Black Hawk College
Blinn College
Bucks County Community College
Burlington County College

Clackamas Community College
College of DuPage
College of Lake County
College of Southern Maryland
College of the Mainland
College of the Sequoias

Collin County Community College

Columbia Basin College

Community College of Baltimore County-

Essex

Community College of Beaver County
Community College of Philadelphia
County College of Marris

County College of Morris
Cuesta Community College

Cuyahoga Community College Western

Dodge City Community College

Donnelly College Essex County College Gainesville College

Garden City Community College Gloucester County College Grand Rapids Community College

Harford Community College Highland Community College

Holy Cross College

Holyoke Community College

Houston Community College System Hudson Valley Community College Hutchinson Community College

Jackson Community College Jamestown Community College Jefferson Community College

Kansas City Kansas Comm. College

Kilgore College Kingwood College

Lewis and Clark Community College Linn-Benton Community College Lorain County Community College McHenry County Community College Metropolitan Community Colleges Miami-Dade Community College-South

Campus

Middle Tennessee State University Minneapolis Technical and Community

College

Mt. Hood Community College

Navarro College

New York City Technical College

North Harris College

North Iowa Area Community College

North Lake College

North Seattle Community College Northampton Community College

Oakland Comm. College- Highland Lakes

Oakton Community College

Olympic College

Portland Community College, Sylvania

Campus

Prairie State College

Prince George's Community College

Saddleback College Schoolcraft College

Seattle Central Community College

Sierra College

Sinclair Community College

South Arkansas Community College

Southwestern College

St. Louis Community College- Florissant

Valley

St. Louis Community College-Meramec

Stark State College of Technology

Texarkana College

Truckee Meadows Community College University College, Univ. Cincinnati

University of Arkansas-Fort Smith

Vincennes University

Waubonsee Community College

Western Nebraska Community College

If you don't find your school in this list, please consider approaching your administrators about having your college become a college sponsor. The yearly membership fee is only \$25. Please send your check, payable to  $2YC_{v}$  to: Ed Dobrzynski, North Iowa Area Community College, 500 College Drive, Mason City, IA 50401

# **One More Industrial Sponsor!**

We unfortunately neglected to thank one of our induistrial sponsors in our last newsletter. We wish to thank the following industrial sponsor for the support we received.

> Pan-Educational Institute 10922 Winner Rd. Independence, MO 64053

# **Undergraduate Student Transfer: Addressing the Challenges**

If you have resources and strategies that facilitate student transfer, you are invited to share them at the 2004 Biennial Conference on Chemical Education (BCCE). "Undergraduate Student Transfer: Addressing the Challenges," sponsored by the Society Committee on Education (SOCED), Committee on Minority Affairs (CMA), and Committee on Technician Affairs (CTA), will focus on:

- the advising and curricular needs of students as they pursue various academic pathways to chemistry careers
- resources and programs currently in place
- ways of involving chemistry faculty from both two-year and four-year institutions
- approaches to improving communication
- strengthening programs

The program will include a keynote presentation by George Boggs, President and CEO of the American Association of Community Colleges, poster session, and symposium with panel discussions.

If you are interested in participating, please contact Jodi Wesemann (j\_wesemann@acs.org or 1-800-227-5558 x4587). Abstracts should be submitted at the BCCE web site (www.chem.iastate.edu/bcce) by January 26, 2004.

### MIDDLE TENNESSEE STATE UNIVERSITY

# Doctor of Arts in Chemistry

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

Summers-Only or Year-Round Completion of Program Possible

Fellowships, Assistantships Available for Summers or Full Years

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

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

> Analytical **Biochemistry** Computational Environmental Forensic Inorganic Materials Medicinal Organic Physical

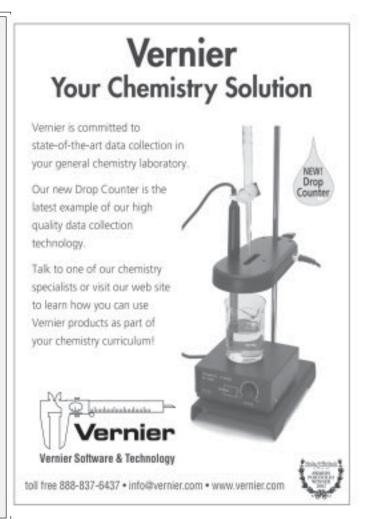
Polymers

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

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

or Write: Department of Chemistry, Box 68,

Middle Tennessee State University, Murfreesboro, TN 37132



# **Vincennes University** Committee on Chemistry in the Two Year College

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Nonprofit Org.

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

