

The 177<sup>th</sup> Conference of the Two Year College Chemistry Consortium  
“100 Years of Community College Chemistry”  
Joliet Junior College  
1215 Houbolt Road  
Joliet, IL 60431

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## Friday March 23

- 8:00 – 4:00 PM Exhibits
- 8:00 – 9:00 AM Registration and Continental Breakfast (Breakfast provided by Prentice Hall)
- 9:00 – 9:15 AM Welcome and Opening Remarks
- 9:15 – 10:00 AM Keynote Address: Science Literacy: Why Understanding Chemistry Can Make You Happy; Nivaldo Tro, Professor of Chemistry, Westmont College, Santa Barbara, CA
- 10:00 – 10:40 AM Refreshment Break and Exhibits
- Session I – Workshop
- 10:35 AM – 12:00 noon Prentice Hall MasteringGeneralChemistry Workshop  
For instructor-assigned homework, MasteringGeneralChemistry™ provides the first adaptive-learning online tutorial and assessment system. Based on extensive research of the precise concepts with which students struggle, the system is able to coach students with feedback specific to their needs, and with simpler subproblems and help when students get stuck. The result is targeted tutorial help to students optimize study time and maximize learning. For instructors, MasteringGeneralChemistry provides deeper, more readily available insight into the progress of your students than ever before. Mastering General Chemistry is the only system to capture the step-by-step work of each student—including wrong answers submitted, hints requested, and time taken on every step. This data populates a gradebook unprecedented in available detail. For professors short on time, the Gradebook Homepage provides class grades at a glance. You can even compare performance with the national average or previous classes. For more detail, the Diagnostics Dashboard provides a one-click customizable suite of your favorite weekly diagnostics. Other links let you assess class performance step-by-step through any activity, or review the detailed work of any student. This workshop will explore the use of MasteringGeneralChemistry.
- Session II – Presentations
- 10:30 – 10:55 AM The Chemistry of Fishing; Patrick Mills, Professor of Chemistry, Joliet Junior College, Joliet, IL

- 11:00 – 11:25 AM Art as Experience: Arts Integration in the Science Curriculum; Jo Ella Eaglin Siuda, The Illinois Institute of Art @ Chicago, Chicago, IL
- 11:30 - 11:55 Inquiry Based Learning in the Laboratory: Dale Hammond, Brigham Young University Hawaii, emeritus
- 12:05 – 1:15 PM Lunch and 2YC<sub>3</sub> General Membership Meeting
- Session III – Workshops
- 1:20 – 3:20 PM Polymer FUNDamentals Will S-T-R-E-T-C-H Your Student’s Interest and Understanding,  
Join us for a whirlwind tour of a “super-center” store focusing on familiar products you can use to stimulate student interest in General Chemistry, Material Science, or Plastic Technology. Participants will learn about polymeric materials AND try fun and simple demonstrations to share that knowledge with students.  
Lynn Higgins, Polymer Ambassador for Illinois, Riverside, IL
- 2:00 – 5:00 PM MicroLAB Workshop  
MicroLab has introduced an exciting new instrument for electronic data collection. The FS-522 can accept sensors for over 24 different measurements as well as perform closed loop control of an experiment. It also contains the 16 wavelength FASTSpec™ scanning spectrophotometer capable of simultaneous measurement of transmission, absorbance turbidity, nephelometry, scatter and fluorescence; along with color kinetics and color comparison measurements. The workshop will be a hands on exploration of the capabilities of this instrument, and will demonstrate how this instrument facilitates inquiry based learning in the laboratory.  
Mike Seymour, Hope College  
John Amend, Montana State University emeritus  
Dale Hammond, Brigham Young University Hawaii, emeritus
- 2:45 – 4:45 PM Foundations for Excellence; Using the ACS Chem Tech Standards database for curriculum development;  
Skill standards are compilations of the knowledge and skills industry expects of high-performing employees. Since 1993, the American Chemical Society has maintained sets of skill standards for chemical technicians. Working with local industry partners, academic chemical technology programs use the skill standards to align their curricula with local industry needs.  
  
In 2006, the on-line database supporting the ChemTechStandards underwent a series of critical upgrades, including the addition of a new set of skill standards specifically for laboratory analysts in pharmaceutical manufacturing. In this hands-on workshop, participants will learn about these upgrades and how to use the ChemTechStandards database to develop or revise their own curricula.  
Blake Aronson, Senior Education Associate, Technician Education, American Chemical Society, Washington, DC

#### Session IV – Poster Session

1:30 – 3:00 PM Posters by Student Researchers from Harold Washington College, Chicago, IL and Harper College, Palatine, IL

#### Session V – Presentations

1:15 – 1:45 Building a Strong Chemical Technology Program: ACS Chemical Technology Program Approval Service, Joan Sabourin, CTPAS chair

1:50 - 2:35 PM Building Local Foundations for Technology Curriculum Design, Onofrio Gaglione Adj. Prof., Community College of Southern Nevada, Las Vegas, NV and Kenneth Chapman Principal Partner Cardinal Workforce Developers, LLC, Ruther Glen, VA

2:30 – 2:50 PM Refreshment Break and Exhibits

3:00 – 4:00 PM Chemical Principles Visualized, David A. Katz, Chemist, Educator, Expert Demonstrator, Science Communicator, and Consultant, Pima Community College, Tucson, AZ

4:00 – 5:00 PM Six Points of Chemical History that Belong in the Curriculum, Otis Rothenberger, Chemistry Professor, Illinois State University, emeritus and James Webb, Chemistry Professor, Illinois State University, emeritus

6:30 – 9:00 PM Banquet at Joliet Junior College by the JJC Culinary Arts Department  
Banquet Speaker: Paul Kelter, Professor of Chemistry, University Distinguished Teacher/Scholar, University of Illinois at Urbana-Champaign

### **Saturday March 24**

8:00 AM – 1:00 PM Registration and Exhibits

8:00 – 9:00 AM Continental Breakfast

#### Session VI – Workshops

9:00 AM – 12:00 Noon ACS GenChem Textbook Workshop  
The textbook, *Chemistry*, a project of the American Chemical Society, is designed to support and reinforce an activity-based, student-centered approach to teaching your general chemistry course. This half-day workshop includes a brief presentation of the background and motivation for the project and the rationale for the structure of the textbook. Most of the workshop is devoted to hands-on participation in group activities and pointers from users of the text about how this approach is accomplished in actual classrooms and how the text can be used with guided inquiry and other innovative learning methods to incorporate activities to reinforce that learning. Jerry A. Bell □ Senior Scientist and Chief Editor, ACS GenChem Project □ Education Division, □ American Chemical Society

- 9:00 AM – 4:00 PM Introduction to POGIL: Process-Oriented Guided Inquiry Learning  
 Note: Participants must register through POGIL website for this workshop at [www.pogil.org](http://www.pogil.org), click on “see list of upcoming events” link.  
 POGIL is a student-centered instructional paradigm that combines a group learning approach with specially designed guided inquiry activities. The goal is to not only enhance student mastery of course content, but also to develop important learning process skills such as communication, problem solving and critical thinking. This workshop will introduce the POGIL approach and actively engage the participants in a POGIL exercise.  
 Karen Anderson, Science Instructor, Madison Area Technical College, Madison, WI and Frank Creegan, W. Alton Jones Professor of Chemistry and Chair, Department of Chemistry, Washington College, Chestertown, MD
- 1:00 – 3:00 PM Vernier Software  
 This workshop offers hands-on experience collecting and analyzing chemistry data using the Vernier LabPro interface. See how this versatile system can be used to conveniently collect data using computers, TI graphing calculators, or Palm OS handhelds. The award-winning Logger Pro data acquisition software will be used to display, graph, and analyze data. Data will be collected using sensors such as the Vernier Drop Counter, Temperature, Pressure, pH, Conductivity, and Colorimeters. You will also have an opportunity to use the Ocean-Optics powered Vernier Spectrometer. All experiments in the workshop are excerpts from our popular Chemistry with Computers or Advanced Chemistry with Vernier lab books.  
 Walter Rohr, Vernier Software
- Session VII – Presentations
- 9:00 – 11:30 AM Science Education, Civic Engagement, and the SENCER Project;  
 Talks to include the general introduction on SENCER and the need for such an initiative, individual SENCER-related chemistry work of each speaker, a brief summary of other SENCER Chemistry models, and a final interactive session where we will ask participants to work in groups and create a skeleton SENCER-based chemistry curriculum at their school.  
Steve Bachofer: Professor of Chemistry, Saint Mary’s College of California, Moraga, CA  
Ralph Bain: Professor of Chemistry, Montgomery College, Rockville, MD  
Theo Koupelis: Professor of Physics and Astronomy, Univ. of Wisconsin-Marathon, Wausau, WI  
Dennis Lehman: Professor and Chair of Chemistry, Harold Washington College, Chicago, IL
- 12:00 – 12:55 PM Lunch and Exhibit Break

Session VIII - Presentations

- 1:00 – 1:35 PM CASPiE at the College of DuPage; Susan Shih, Professor of Chemistry, College of Dupage, Glen Ellyn, IL
- 1:35 – 2:10 PM Creating a Research Environment at a Two-Year College, Tom Dowd, Associate Professor, Harper College, Palatine, IL
- 2:10 – 2:45 PM Demystifying Organic Chemistry; Salim Diab, Professor of Chemistry, University of Saint Francis, Joliet, IL
- 2:45 – 3:20 PM Classroom Performance Systems: Do they improve student performance, perceptions or performance, or just student satisfaction? Michele Turner, Associate Professor of Chemistry, The University of Akron Wayne College, Orrville, OH
- 3:20 – 3:55 PM Collaboration in Community College Chemistry Research; Bal Barot, Lake Michigan College, Benton Harbor, MI
- 4:00 – 4:30 Conference Closing

For program updates please go to the @YC<sub>3</sub> webpage: <http://2yc3.org>

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## LODGING

Hampton Inn (Approximately 0.5 miles from the conference)

1521 Riverboat Center Dr

Joliet, IL 60431

For Reservations: 815-725-2424 - Group Code JJG

10 King Rooms at \$75.00 per night (plus 13% hotel tax)

15 Double Rooms at \$75.00 per night (plus 13% hotel tax)

Block of rooms will be active until 12:00 pm on 2/22/2007. Additional rooms reserved beyond the cut off date will be subject to availability and will be charged rack rate of the day.

For more information go to: [www.hamptoninnjoliet80.com](http://www.hamptoninnjoliet80.com)

Wingate Inn (Approximately 2 miles from the conference)

101 McDonald

Joliet, IL 60431

For Reservation: 815-741-2100 – Group Code JJC2YC3

30 Rooms at \$72.00 per night (plus 13% hotel tax)

Block of rooms will be active until 3/3/07. Additional rooms reserved beyond the cut off date will be subject to availability and will be charged rack rate of the day.

For more information go to: [www.wingateinns.com](http://www.wingateinns.com)

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### Joliet Junior College

Joliet Junior College is a comprehensive community college. The college offers pre-baccalaureate programs for students planning to transfer to a four-year university, occupational education leading directly to employment, adult education and literacy programs, work force and workplace development services, and support services to help students succeed.

JJC, America's oldest public community college, began in 1901 as an experimental postgraduate high school program. It was the "brain child" of J. Stanley Brown, Superintendent of Joliet Township High School, and William Rainey Harper, President of the University of Chicago. The college's initial enrollment was six students. Today, JJC serves more than 10,000 students in credit classes and 21,000 students in noncredit courses.

For directions go to: [www.jjc.edu/Maps/MainCampus.html](http://www.jjc.edu/Maps/MainCampus.html)

Park in East Lot 2

## Banquet Menu

Mixed Spring Greens with Kalamata Olives, Plum Tomatoes, Cucumbers and Crumbled Feta Cheese with a Greek Style Vinaigrette

Choice of one of the following three Entrée options

Grilled Filet Minion with a Wild Mushroom Demi Glaze, Garlic Mashed Potatoes and French Beans with Herb Shallot Butter.

Crab and Shrimp Stuffed Breast of Chicken with White Wine, Basil Butter Sauce  
Garlic Mashed Potatoes and French Beans with Roasted Tomato Concasse

Vegetarian Option

Grilled Portobello Mushroom stack with Roasted Peppers, Grilled Plum Tomato and Fresh Mozzarella on a bed of Mediterranean Angel Hair Pasta.

Dessert – Flourless Chocolate Cake with Fresh Berry Coulis and Ginger Crème Anglaise

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March 23 -24, 2007

Name \_\_\_\_\_ Institution \_\_\_\_\_

Institution Address \_\_\_\_\_

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

Phone Number \_\_\_\_\_

Email Address(es) \_\_\_\_\_

I teach at a High School \_\_\_\_\_ 2-Year College \_\_\_\_\_ 4-Year College or University \_\_\_\_\_

Conference Fees:

Registration (current 2YC<sub>3</sub> members) @ \$25.00\*      \$ \_\_\_\_\_

Registration (includes 2YC<sub>3</sub> membership) @ \$40.00      \$ \_\_\_\_\_

Friday Evening Banquet @ \$30.00      \$ \_\_\_\_\_

Friday Lunch @ \$10.00      \$ \_\_\_\_\_

Saturday Box Lunch @ \$10.00      \$ \_\_\_\_\_

Total      \$ \_\_\_\_\_

\* There is no conference fee for high school teachers and students

Meals

A continental breakfast will be provided for both Friday and Saturday mornings.

Friday's lunch will be a "buffet" including vegetarian options

Saturday Box Lunch (Choose 1)    vegetarian \_\_\_\_\_    non-vegetarian \_\_\_\_\_

Friday Banquet (Choose 1)    vegetarian \_\_\_\_\_    beef \_\_\_\_\_    chicken \_\_\_\_\_



## Workshops

Participants who would like to attend the POGIL workshop **MUST** pre-register through the POGIL website at [www.pogil.org](http://www.pogil.org), click on “see list of upcoming events” link. If you are registering for the POGIL workshop do not order a box lunch for Saturday. The POGIL workshop organizers will provide lunch for the participants. (Limit 40 participants)

### All other workshops

To insure that sufficient materials and supplies are available please check the workshops that you are likely to attend during the conference.

\_\_\_\_\_ Prentice Hall MasteringGeneralChemistry

\_\_\_\_\_ Polymer FUNDamentals

\_\_\_\_\_ Foundations for Excellence; Using the ACS Chem Tech Standards database for curriculum development

\_\_\_\_\_ ACS GenChem Textbook Workshop

\_\_\_\_\_ Vernier Software

Please send your registration form and check to:

Marie Wolff

Natural Science Department

Joliet Junior College

1215 Houblot

Joliet, IL 60431

**Make Checks Payable To:** Joliet Junior College (2YC3 on memo line)

