

Chemistry Outlook

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



Jeff Cramer, 2008 Chair

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otes From The Chair

Jeff Cramer Stark State College North Canton, OH

14.0067 Nitrogen

So, this is the beginning of a new year, are we ready for the new year, the new term, some new projects? Did we make or take some reflection time to evaluate how we did last term, and how we will change for this term? Hmmm, or did we use the break to recuperate (recharge) for this sprint?

What do you find to be the hardest part of teaching? What do you focus on when teaching? Do you believe these questions have different answers based on the course you are teaching? Should they be different?

Is what you find to be the hardest related to what the students find the most difficult? What is the major student issue with chemistry (science)? If you were to sit in my classroom, you would see that I hesitate when asking questions. I even talk with students about this- How to ask the question accurately? I fear that the question I ask or write is not the question which students hear or see! The first step in the problem solving process is defining the question. Is my problem definition the same as the student's definition? How often have you asked a student to restate the question? If you have asked students to restate your question, what have you learned from it?

I hope to allow you to learn a bit about your 2008 Chair and my thinking in these notes. But I want you to introduce yourself at a 2YC, Conference and to continue this discussion. Don't be afraid to make it a spirited discussion.

Now what can you infer about my teaching from the above? I am a Socratic teacher. I am also a Socratic learner. I not only ask students many questions, but I ask and write down questions for myself. So the first step in solving a problem or answering a question is defining the problem. So, why do I have a difficult time asking questions? It is in the word or words I use!

I have decided that I like to study words- how we use them, what they mean to us. I ask students for synonyms and antonyms of words. I also ask them what they are thinking when I ask a question? There are a couple of reasons for this: 1) I want

continued on page 2



onference Calendar

2008 - 2009 Academic Year

180th CONFERENCE (Southern)

April 4-5, 2008, Baton Rouge Community College

Baton Rouge, LA

Contact: Karen Stephens

Phone: 225-216-6827

Email: stephensk@mybr.cc

181st CONFERENCE/20th BCCE

July 27-31, 2008, Indiana University

Bloomington, IN

More information, including deadlines for posters and presentations, can be found on page 8 of this issue of Chemistry Outlook. Proposals for posters and papers are currently being accepted at the website/email address below.

For information go to:

http://bcce2008.indiana.edu

Inquiries and suggestions can be emailed to: bcce2008@ indiana.edu

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

182nd CONFERENCE (Western)

September 26-27, 2008, Riviera Hotel Las Vegas

Las Vegas, NV

Contacts: Onofrio (Dick) Gaglione; Kaveh Zarrabi

Phone: 702-254-1782 Email: oggag@aol.com

183rd CONFERENCE (Eastern)

November 21-22, 2008, Ann Arundel Community College

Arnold, MD

Contacts: Lynn Tracey

Email: ljtracey@aacc.edu

"Notes from the Chair" ...continued from page 1

to see how they interpret what I have said and 2) I want to see what "other" things pop into the students' minds because from my question. I even ask which word or words they don't understand. I ask the same question of multiple students so as reduce the pressure on a single student. It also continues the thinking process. It is also my way of getting students to hear/see other students thinking and not only my thinking.

OK, now that I have given you some thinking time - what do students find the most difficult? They generally complain more about word problems. But what is it about word problems that make them so difficult? When I started at Stark State College, Howard Lorson, a veteran chemistry instructor, would talk about student's math skills. And so I focused on helping students to

understand the math, algebra, conversion factors, and defining the known (given) and unknown. I thought all of this had to do with the abstract thinking that is math. It seems that students will always want to see "equal" (=) as "identical" rather than "can be replace with" or "converted into."

I still focus on these things, but I have moved toward working more on the words. For words are just as abstract as the mathematical symbols and the chemical formula and equations. So my new hypothesis is that the students' most difficult problem is the English (language), not the math. I believe that the supporting data is that reading scores is the only thing that correlates with course success. I have noticed that the exam that includes measurements (problem solving) does not have the lowest average anymore even though it is the first exam. Isn't it great how we have removed the language requirements from college? So math and chemistry are languages. Now I have to figure out how to study a language. What words do you find interesting? Let's talk about them at Baton Rouge Community College in April.

182nd Conference (Western) Riviera Hotel, Las Vegas, NV September 26-27, 2008

Conference Theme:

Challenges and Benefits of Undergraduate Research in Two-year Colleges

The $182^{\rm nd}$ 2YC₃ will be held in Las Vegas, NV as part of the ACS' $43^{\rm rd}$ Western Regional Meeting, September 24-27, 2008. The 2YC₃ Program will take place on September 26-27, 2008. 2YC₃ members may register and attend the entire conference for the same special fee of \$40.00 (advanced online registration) and \$50.00 (onsite registration).

Contacts:

Program Co-Chairs: Onofrio Gaglione & Kaveh Zarrabi,

Comm. College of Southern Nevada

Arrangements Chair: Onofrio Gaglione

Meeting Site: The Riviera Hotel, 2901 Las Vegas Blvd. So.,

Las Vegas, NV 89109

In addition to 2YC₃ papers and poster presentations and the traditional 2YC₃ Friday evening banquet, the WRM will include a wide variety of paper and poster presentations, a High School Chemistry Education symposium, an undergraduate student program, luncheons, an Awards Banquet and an Exhibition in a 12,000 Sq. Ft. Exhibit Hall located right across the hallway from the meeting rooms in the Riviera Convention Center. Plan now to attend the 182nd 2YC₃ and if possible the entire WRM.

Consult the WRM 2008 Website, http://membership.acs.org/w/WRM2008, for informational updates, online registration, hotel accommodations, the program and area attractions. The 2YC₃ Website, http://2vc3.org, will also contain meeting information for the 182nd 2YC₃. Those wishing to present a paper or a poster at the 2YC₃ should contact Dick Gaglione at orgag@aol.com.

2008 COCTYC AND SUPPORT STAFF Division of Chemical Education, Inc **American Chemical Society**

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2YC₃ Membership FormPlease consider supporting the 2YC₃ by becoming a member or renewing your membership. Annual dues are only \$15.

Special Offer: Annual dues are \$15 for the 2YC, and \$20 for the American Chemical Society Division of Chemical Education (DivCHED). If you are not already a member of DivCHED, you may join both organizations today for a total of \$30, a savings of \$5.

I wish to:	Become a member of 2YC ₃ Renew my 2YC ₃ Membership Join DivCHED as a member (ACS members only) and 2YC ₃ Join DivCHED as an affiliate* (non ACS members) and 2YC ₃ *affiliates have all membership privileges except voting and holding elective office.					
I am a:		Two-Year College Teacher High School Teacher	_	Four-Year College Teacher Other		
Your Name:						
Institution:						
Address: _						
	Street		City, State	9-Digit Zip Code		
Phone: _			Email:			
Current Mei	nber of:	ACSDivCHED				
		s are posted on the 2YC ₃ website. The list is numbers are NOT listed. If you do NOT v		onal affiliation, and membership expiration date only heck here		

Please send your check, payable to 2YC₃, for \$15 (2YC₃ only) or \$30 (joint membership) to:

Frank Ramdayal, Bergen Community College, 400 Paramus Road, Paramus, New Jersey, 07652.

180th 2YC₃ Conference

"Building a Foundation for Research: **Preparing Students for Global Challenges**"

Baton Rouge Community College Baton Rouge, Louisiana

April 4-5, 2008



nference Program

For registration, lodging information, travel directions and the latest information on the conference program, visit the conference website: http://www.mybrcc.edu/2yc3/

Email: stephensk@mybr.cc; Phone: (225) 216-6925 **Program Chairs:** Karen Stephens

> Rory Rice Email: ricer@mybr.cc; Phone: (225) 216-8269

Sherry Gibson Email: gibsons@mybr.cc; Phone: (225) 216-6800 **Local Arrangements: Exhibits Coordinator:** Otto (Ken) Goins Email: goinso@mybr.cc; Phone: (225) 216-8269

Friday, April 3

8:30 - 4:00**Conference Exhibits**

8:00 - 9:00Conference Registration & Continental Breakfast

9:00 - 9:15**Welcome and Opening Remarks**

9:15 - 10:15Keynote Address: Do You Want to Prepare Students for the Challenges of Research? Teach Them How to Learn;

Dr. Saundra McGuire, 2006 Presidential Award Recipient for Excellence in Science, Mathematics and Engineering

Mentoring (PAESMEM), Associate Dean of University College, Louisiana State University, Baton Rouge, LA

Refreshments 10:15 - 10:35

10:45 - 11:302YC, General Meeting

Session I - Presentations

10:45 - 11:30SESSION A: Building an Infrastructure for Quality Learning Experiences Through Global Learning Networks: MERLOT (Multimedia Educational Resource for Learning and On-Line Teaching), MAN (Merlot Africa

Network) and GLOBE (Global Learning Brokerage Exchange); Dr. Mous Diack, President of the Louisiana Academy of Sciences and Professor of Chemistry and Science Math Education, Southern University, Baton Rouge,

LA

SESSION B: New Process Development in the Area of Bromination Reactions; Isolation of Larger Scale Michael

Reactions; Dr. Hassan Elnagar, Albermale Chemical Corporation, Baton Rouge, LA

Session II - Presentations

11:45 - 12:30SESSION A: STEM Engines: Undergraduate Research Collaborative; Dr. Tom Higgins (Harold Washington College), Dr. Wily Hunter. Illinois State University and Dr. Stephanie Pearson, Illinois State University

SESSION B: Pearson Publishers Workshop

12:30 - 1:30Lunch

Session III - Student Posters

1:45 - 4:00Student Poster Session/Judging of Student Posters

Session IV- Presentations

1:45 - 2:30SESSION A: Institutionalizing Undergraduate Research; Dr. David Brown, Department of Chemistry, Southwestern College, Chula Vista, California, Mary K. Boyd, Department of Chemistry, Georgia Southern University, Statesboro, GA

> SESSION B: Chemistry in Context; Lucy Eubanks, President and CEO of LATEst IDEas Inc., Editor in Chief (2006 and 2009 Editions of Chemistry in Context), retired lecturer, Clemson University, Clemson, SC

Session V- General Session

- 3:00 4:30Revising the ACS "Guidelines for Chemistry in the Two-Year College;" Dr. Dolores C. Aquino, ACS Task Force member, immediate past 2YC3 chair and professor of chemistry, San Jancinto College Central, Pasadena, TX
- 6:30 8:30Social and Banquet - Speaker: Dr. Shirley Malcolm, Head of the Directorate for Education and Human Resources for the American Association for the Advancement of Science (AAAS) Washington DC; AAAS and American Academy of Arts and Sciences fellow; member of the Presidential Committee of Advisors on Science and Technology.

Saturday, April 4

8:00 -	- 2:00	Exhibits
0.00 -	- 2.00	EXHIDITS

8:00 - 9:00Conference Registration & Continental Breakfast

PLENARY SESSION: Preparing Students for Global Challenges: "Quality Teaching and Systemic Mentoring are 9:00 - 10:15the Keys;" Dr. Diola Bagoyoko, Distinguished Professor of Physics and Teacher of the Year, US Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring recipient and director of the Timbuktu Academy, Southern University, Baton Rouge, LA

10:15 - 10:35Refreshments

Session VI - Presentations

- 10:45 11:30**SESSION A: Student Presentations**
 - I. Mid-IR Channelization of Volume Holagraphic Gratings and Nano Fabrication of Optical Structures; Mauel Alingog, Department of Chemistry, Southwestern College, Chula Vista, CA
 - II. Facilitating Access for Science Student Success (FASS²): Peer Leader Team Learning Program; Chris Felton, BRCC Science Major and Phi Delta Kappa Scholar

SESSION B: Pearson-Prentice Hall: Mastering General Chemistry: On-line Homework Assessment; Kensie Hingle, Publisher's Representative, engineering, science, math and technology

Session VII - Presentations

11:45 -12:30 SESSION A: The Power Law of Performance; Dr. Diola Bagayoko, Distinguished Professor of Physics and President and Founder of Southern University's Timbuktu Academy, Southern University, Baton Rouge, LA

SESSION B - Facilitating Access for Science student Success (FASS2); Dr. Esperanza Zenon, Assistant Professor of Curriculum and Instruction, Clark Atlanta University; Former BRCC Instructor of Physics and Project Co-Director and Karen Stephens, Assistant Professor of Chemistry, Project Director, Baton Rouge Community College, Baton Rouge, LA

SESSION C - Using NSF and ATE Funding to Build Associate Degree Programs in Environmental and Engineering Technology; Dr. Jo Dale Ales, Mrs. Laura Younger and Dr. Francesca Mellion, Baton Rouge Community College, Baton Rouge, LA

12:30 - 1:30Lunch

Session VIII – Presentations

1:45 - 2:30SESSION A: Preparation of Undergraduate Students in Science for Research at the 2 Year Community College Level: Effective Use of Open Inquiry Projects; Dr. Kenneth Maloney, CASE Professor of the Year and Retired Professor of Chemistry, Baton Rouge Community College, Ms. Ana Frye, former BRCC student and secondary science instructor, Trinitiy High School, Weaverville, CA and Ms. Cecile Grisby, former BRCC student and nutritionist with the Woman's Hospital and East Baton Rouge School System

SESSION B: Student Presentations

- I. Curve Fitting and Deconvolution Methods Applied to Spectroscopic Measurements in Two-State Chemical Systems: Acid-Base Indicators; Chonda dela Cruz, Department of Chemistry Southwestern College, Chula Vista, <u>CA</u>
- II. Formation of Aluminum Oxide Using Extruders; Gregory Manchester, Chemistry Major, BRCC Department of Physical Sciences and Chemical Technician, BASF Wyandotte Corporation, Port Allen, Louisiana
- Meeting of student paper and poster presentation judges 2:30-3:30
- 3:00-4:00Roundtable Discussion: Building Research Capabilities: Partnerships and Consortia that Facilitate Research at 2 and 4 Year Institutions

Facilitator: Ann Zanders, BRCC program manager for Grants and Strategic Initiatives

Panelists: David Brown, Tom Higgins, Diola Bagoyoko, Ken Maloney

4:00 - 4:30**Conference Closing**

Presentation of student awards; Door prizes

REGISTRATION

Registration for the conference is by mail-in form. To fill out/print an on-line form, go to: http://2vc3.org/Meetings. A form will be generated that you may print out and submit with your payment. Please note your registration is not complete until your payment is received.

LODGING

Comfort Inn, 4924 Constitution Ave., Baton Rouge, LA 70808

Phone: (225) 930-0600; (225) 930-0655 Email: Gm.LA162@choicehotels.com

Room Rates: Ask for the 2YC, Rate

Room type single double extra Double/Double \$84.00 \$84.00 \$10 \$74.00 \$74.00 \$10 King

Registration must be made by 3/4/08 for the special rate and guaranteed with a credit card. Any requests received after 3/4/08 will be handled on a space availability basis only.

Hampton Inn, 4646 Constitution Ave., Baton Rouge, LA 70802

Phone: (225) 926-9900; Fax (225) 923-3007

Room type	single	double	extra
Double/Double	\$99.00	\$99.00	\$10
King	\$99.00	\$99.00	\$10

Rates include a continental breakfast buffet.

For persons arriving early or staying additional nights arrangements should be made no later than 30 days prior to group arrival (April 3-5, 2008) to ensure accommodations.

Revision of the ACS Guidelines for Chemistry Programs in Two-Year Colleges

The Society Committee on Education task force charged with coordinating the revision and dissemination of the ACS Guidelines for Chemistry Programs in Two-Year Colleges has begun drafting a summary of proposed changes. This summary will be shared with the chemistry community, along with a request for feedback, in 2008.

Based on input from the chemistry community and benchmarking against guidelines for other disciplines, the tentative goals for the revision have been identified:

- Reflect changes in pedagogy, technology, accountability
- Facilitate student transfer
 - by aligning with the revised ACS Guidelines for Bachelor's Programs
 - by calling for communicating with receiving institutions
- Provide a more useful resource for strengthening programs
 - by offering guidance for ongoing curricular change
 - by offering guidance for improving the working environment

Questions and input can be sent to task force chair, John Clevenger (**JClevenger@tmcc.edu**), or staff liaison, Jodi Wesemann (**j_wesemann@acs.org**).

Copies of the current guidelines and more information about the revisions can be obtained by:

- Visiting www.acs.org and following the path: Education > Educational Resources > Undergraduate > Two-Year/Community Colleges
- Sending your name and address to j wesemann@acs.org

Mini-grants awarded for collaborative programs

The winners of the Fall 2007 Equipping the 2015 Chemical Technology Workforce mini-grants have been announced. The winners are collaborating with industry, academia, workforce development groups, and ACS local sections on activities that support the education or professional development of the over 300,000 chemical technicians in the chemical enterprise.

The winning activities include chemical technology career fairs for high school students, networking dinners to introduce new technicians to potential employers, a chemical technology club for deaf and hard of hearing students, and symposia on professional development for technicians.

The following groups will each receive \$500 for their activities:

- · Alvin Community College (Alvin, TX)
- · Delaware Technical and Community College (Newark, DE)
- · ACS Illinois Heartland Section (Peoria, IL)
- · National Technical Institute for the Deaf at Rochester Institute of Technology (Rochester, NY)
- · ACS Division of Chemical Technicians (TECH)
- · Northeast Tennessee Technician Affiliate Group (Kingsport, TN)

Proposals for the next set of mini-grants will be accepted through 11 March 2008. Details are available on the **Equipping the 2015 Chemical Technology Workforce** website (see website at end of this article)

Continued on p. 10, column 2...

181st 2YC₃ Conference

20th Biennial Conference on Chemical Education Indiana University, Bloomington, Indiana

July 27 – 31, 2008

The Biennial Conferences on Chemical Education (BCCEs), which are sponsored by the ACS Division of Chemical Education, are the largest gathering of chemical educators in the world and is designed for middle school science teachers, secondary school chemistry teachers, and college chemistry instructors. This conference emphasizes the improvement of chemistry education at all levels, the modern developments in chemistry and chemical education, and is highly respected in the chemical education community.

The organizers of the 20th Biennial Conference on Chemical Education (Steven Wietstock is the general chair) invite you to join us on the beautiful Indiana University campus from July 27-31, 2008. We are planning an exciting conference with ample time to relax, to network with your colleagues, and to explore the richness of the campus and surrounding community.

Plenary sessions will be convened in the recently renovated IU Auditorium on the Arts Plaza. Plenary speakers currently confirmed for the conference include:

- *Vahid Majidi, Assistant Director for the Weapons of Mass Destruction, Federal Bureau of Investigation
- *Eileen Lewis, Program Director in the Division of Undergraduate Education (DUE) at the National Science Foundation
- *Julie Gess-Newsome, J. Lawrence Walkup Distinguished Professor of Science Education, Director of the Center for Science Teaching and Learning, Northern Arizona University
- * Madeleine Jacobs, ACS Executive Director & CEO
- * Katherine Hunt, 2007 ACS President

Housing will be available in several of our newly renovated residence halls and will range in price from \$33-46/night depending on type of accommodations requested. In addition, blocks of rooms are available at the Indiana Memorial Union and other local hotels. Housing reservations will be accepted through the registration pages beginning in February 2008.

Abstracts for posters and presentations are due by February, 15 2008

Abstracts for the meeting are currently being accepted at the BCCE website. Abstracts can be edited any time during this period at the abstract submission site.

Preliminary Symposia Listing

This is a list of titles from some of the symposia that have been submitted for the 20th BCCE as of 5 July 2008. This does not mean that these symposia have been accepted by program organizers at this time. This list is to provide participants with an idea of some of the topics that are being considered for the conference.

- Building and Renovating Your Science Buildings
- Chemistry Online
- Chemistry Research for Freshman and Community College Students
- Chemistry Technician Program
- Cognition in Chemistry Education
- Demo Extravaganza
- Innovations in the Organic Chemistry Curriculum
- Instrumentation in the General Chemistry Laboratory
- Issues Facing Community Colleges
- Pedagogical Visualization and Computation Across The Undergradute Chemistry Curriculum
- Polling Systems in College Chemistry Classes
- Problem-Based Learning Design and Utilization in Upper Level Chemistry Courses
- Profs Teaching Teachers: How should college chemistry faculty participate in teacher education?
- Profs Teaching Teachers: Novel courses taken by pre-service teachers in the chemistry department.
- Prosperous Relationships: Grants and Collaborations Between 2 Year and 4 Year Institutions
- Student Retention
- Supporting Laboratory Safety through a Chemical Hygiene Plan(CHP) and Chemical Inventory Management (CIM)
- Technology in the Classroom
- The Roles of Pen-Based Technology in Chemical Education
- Undergraduate Research: Theory and Practice

Continued on Page 9...

Join us in July 2008

Visit and bookmark the 20th BCCE website for specific information about the conference. This site will be continuously updated with information pertaining to the technical program, registration, housing, and social events as we approach July 27, 2008. If you are still wondering what a Hoosier is, then we invite you to come to the 20th BCCE at IU and see them up close! Any questions, program ideas, or general suggestions for any of the BCCE program chairs can be sent to the BCCE email address, *BCCE2008@indiana.edu*.

Bridging Community College Chemistry Faculty into the National Educational Community

This is an invitation for you, a community college chemistry educator, to engage with the national community of chemical educators.

Bolstered by over a decade of support from the NSF, new and more effective methods of teaching chemistry have been devised and implemented in hundreds of colleges, including community colleges. Undergraduate chemical research is now being carried out by first and second year students, including those at several community colleges. We want to increase the use of these approaches and activities by bringing faculty like you into contact with these new ideas and with the people who implement them.

Dissemination of these ideas and making personal connections among faculty interested in educational improvement takes place most intensely at the twice-yearly national meetings of the ACS and at the BCCE held every two years.

The newly funded NSF grant that we call ChemEd Bridges has given us the resources to create symposia and participatory workshops at these meetings. These are specifically designed to welcome and to meet the needs of community college chemistry faculty and to facilitate the creation of new collaborative efforts between two-year and four-year colleges. Our first symposium, *Undergraduate Research at Two-Year Colleges*, will be held at the ACS National Meeting in New Orleans, LA from April 6-10, 2008.

Travel Support for Community College Faculty

From our grant we can award funds to support your attendance at this ACS Meeting in New Orleans. Details and applications are at http://chemedbridges.weebly.com/

Presenting at these meetings will be community college faculty with experience in educational innovation and implementation, who will serve as role models and provide mentoring for other faculty. Faculty from two-year and four-year colleges who want to disseminate tested innovations will be here looking to meet interested community college faculty.

A major focus of our work is to build bridges between two-year and four-year colleges. We have identified three critical areas where working together benefits both parties.

- 1. Curriculum improvement: adopting and adapting pedagogical innovations to improve student retention and performance in foundational chemistry courses;
- 2. Undergraduate research: motivating more students to become and persist as chemistry majors;
- 3. Successful student transfer, including full transfer of academic credits.

In the long run we aim to build and support a community of scholars from both systems whose purpose is to improve the quality of chemical education for all students. We urge you to participate in this worthwhile goal.

ChemEd Bridges 2008 Schedule

April 4-5_____180th 2YC₃ Meeting
April 6-10____ACS National Meeting

April 6-10____ACS National Meeting

Baton Rouge Community College, LA

New Orleans, LA

Symposium: Undergraduate Research at Two-Year Colleges

Indiana University, Bloomington

Symposium and Workshop: Building Bridges Between Two Year and Four Year Colleges

http://bcce2008.indiana.edu/

The **Bridge Club** is a collaboration of three two-year and one four-year college chemistry faculty who jointly manage the ChemEd Bridges project.

- •Mary K. Boyd, Georgia Southern University, Statesboro, GA
- •David R. Brown, Southwestern College, Chula Vista, CA
- •Tom Higgins, Harold Washington College, Chicago, IL
- •Harry Ungar, Cabrillo College, Aptos, CA

Visit http://chemedbridges.weebly.com/ for more information.



40th Middle Atlantic Regional Meeting Chemistry and Health May 17-21, 2008

Queensborough Community College Bayside, NY

Featuring plenary lectures by Dr. Ronald Breslow and Dr. Roald Hoffman, over 50 symposia in all chemical disciplines, and programs for educators and students

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for registration, abstract submission & more Abstract submission closes March 15, 2008

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Mini-Grant Awards from p. 7...

Equipping the 2015 Chemical Technology Workforce is a collaborative initiative involving the Committee on Technician Affairs (CTA), the Committee on Economic and Professional Affairs (CEPA), the Division of Chemical Technology (TECH), and ChemTechLinks. It kicked off at the 232nd ACS National Meeting in San Francisco.

The goals of Equipping the 2015 Chemical Technology Workforce

- 1. To raise awareness of the changing needs of professional technicians
- 2. To highlight opportunities for industry, academia, professional societies, and the community to collaborate on meeting those
- 3. To increase involvement of current and future technicians in the American Chemical Society

So far, 12 mini-grants have been awarded to strong programs that bring together several different sectors of the chemical enterprise for the benefit of current and future chemical technicians. Equipping the 2015 Chemical Technology Workforce is proud to help support these activities.

For more information on winners and proposal submission, go to www.acs.org (follow the path: Education > Educational **Resources > Chemical Technology > Building Partnerships**), or email **ChemTechLinks@acs.org**.



Quick...and to the Point

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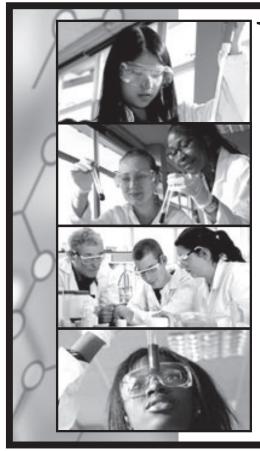
Shimadzu Scientific Instruments 7102 Riverwood Drive • Columbia MD • USA 21046

Travel Grant Opportunity for Community College Faculty!! Applications Are Being Accepted for The Dorothy and Moses Passer Education Fund

Editor's note: This exceptional funding opportunity is open to 2-year college faculty to help fund a specific goal that you are working on; you can't fund a trip to a conference, but funding support for travel to workshops, etc. are eligible. Two-year college faculty have a great advantage of teaching first generation/underserved populations/non-traditional students and they should make note of that in their application.

This 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 to provide support for teachers in programs at two- and four-year colleges or universities that do not have any advanced degree programs in the chemical sciences. The awards are to support continuing education activities 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 member 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. All applications must be received electronically. For further information or inquiries contact **Richard Jones, richard.jones@sinclair.edu**; mailing address: Sinclair Community College, Dayton, OH 45402



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