

Chemistry Outlook

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

Website: <http://2yc3.org>

We're Now on Facebook and Twitter! - See page 2



Jason Jadin, Chair

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Notes From The Chair

Jason Jadin
Rochester Community and Technical College
Rochester, MN

I just returned to the classroom this spring after a one-semester sabbatical during the fall term. I know many of you do not have the option to take a sabbatical, so I do consider myself fortunate to be in a state college system which still grants them. When I became eligible for sabbatical I wasn't sure that I wanted to take one. I wasn't burnt out from teaching and what would I do with my time? In fact I waited two years after I became eligible to take my sabbatical. Now that it is over, I'm glad I took one. I found that I now had the time to do the school projects that had been on my wish list for quite some time. The two major parts to my sabbatical project were to revise and add new labs to our GOB lab manual and to take a graduate level biochemistry course.

It seems like I am always tweaking labs during the academic year, but with everything else going on I could only focus on revising one or two labs per year. The sabbatical gave me the chance to research a variety of resources to find appropriate labs. The issue I had was finding too many good labs, but not enough time in the semester to conduct them all. The other benefit of writing during my sabbatical was the added time I had to actually conduct the experiments and revise steps which didn't work or needed clarification. It also allowed me to write an instructor's version which provided sample data and notes for those instructors experiencing the lab for the first time. We are using the new lab manual this spring. It's not perfect, we are finding those pesky typos, but things are going well.

The second part of my sabbatical project was taking a graduate level biochemistry course. The nearest city which offered a graduate level course was at least an hour drive away. With gas prices being where they are, driving three days a week to attend lecture didn't sound appealing. I decided instead to take an on-line biochemistry course. This course was offered through the

INSIDE THIS ISSUE

Vol. 2012 – Issue II

- | | |
|-------|---|
| 1 | Notes from the Chair |
| 2 | Conference Calender |
| 3 | 2YC ₃ officers/support staff;
Membership form |
| 4 | 22 nd BCCE/197 th 2YC ₃
Conf. Announcement |
| 5 | 198 th Conf. Call for Papers/
Preliminary Program |
| 6 | 199 th Conf. Call for Papers |
| 6 | Passer Fund Info |
| 7 | SOCED Task Force
Activities |
| 8 | ACS Starter Grants for
2YC Student Chapters |
| 9 | Call for COCTYC office
applications: Chair-Elect
2014 & Newsletter Editor |
| 10-11 | RAB News |



ACS
Chemistry for Life®



continued on page 2

196th CONFERENCE1st 2YC₃ Web Conference

April 27, 2012

Contact: Lance Lund

Email: pastchair2@2yc3.org**197th CONFERENCE (Eastern) - 22nd BCCE**

July 29-Aug 2, 2012

[Penn State University](http://www.pennstate.edu)[University Park, PA](http://www.pennstate.edu)

Contact: Michele Turner

Email: cmt@uakron.edu**198th CONFERENCE (Midwestern)**

Sept. 21-22, 2012

[Harper College](http://www.harpercollege.edu)[Palatine, IL](http://www.harpercollege.edu)

Contact: Dan Stanford

Email: dstanfor@harpercollege.edu**199th CONFERENCE (Western)**

Nov. 9-10, 2012

[Arizona Western College](http://www.arizona.edu)[Yuma, AZ](http://www.arizona.edu)

Contact: Scott Donnelly

Email: scott.donnelly@azwestern.edu**“Notes from the Chair” ...continued from page 1**

University of Minnesota-Twin Cities and run as a combined undergraduate/graduate level course. This was my first experience with an on-line course and I was excited to be a student again. The course had a textbook and lectures were given through Adobe Presenter®, where the PowerPoint® slides were shown synced up with the instructor’s voice. This format worked me, but my background provided a slight advantage compared to the typical student enrolled in this course. I often wondered how the other students felt about this delivery method. Was there enough interaction for them to be successful? Were they disciplined enough to read the textbook and complete the practice problems even though nothing was assigned in the syllabus?

It’s probably safe to say that on-line teaching is here to stay, but there are still many questions surrounding on-line courses. Is the administration of an on-line course the same as running an on-campus course? Is it sufficient to record your voice and post a PowerPoint® presentation? How can you make your on-line class more interactive? What programs should I use? How do you conduct laboratory

sessions? Do you use purchased lab kits, perform “kitchen” chemistry experiments, or conduct virtual labs?

With all these questions to answer, just thinking about teaching on-line gives me a headache. I’m not yet ready to teach on-line, but after attending a few presentations at conferences and taking the biochemistry course I’m ready to try a few things. In January, I attended an SOCED Task Force Retreat related to Two-Year College Activities. It was early in the semester and I did not want to lose a lecture, so I thought this would be a good time to try an on-line lecture. I took a crash course on how to use Presenter® and then recorded my lecture. To my surprise, what takes 50 minutes to present to a lecture hall of students only took 25 minutes to record. The script that I wrote helped reduce the time plus it eliminated all of the extraneous words. The script needed to be written anyways to make the presentation ADA compliant. Besides the recorded lecture, I used the quizzing feature within Presenter® to make it more interactive. I was able to ask a few questions at the end of the lecture, but quiz didn’t go entirely as planned. I had hoped to provide feedback for incorrect student answers and also allow them to retake the questions. The question feedback appeared, but the reset button did not work for a few of the questions. Students weren’t able to go back and correct their mistakes. Given more time to play around with program I would have figured out a solution to this issue. I also found out that multiple choice questions worked better than fill-in-the-blank questions. The feedback for the fill-in-the-blank question was too generic and did help students get the correct answer. Overall it was a good experience and I’ll do it again the next time I miss a lecture due to a conference. With these small steps, I’m well on my way to teaching a fully on-line class.

Connect with 2YC₃ online!**Facebook:**<http://www.facebook.com/twoyearchem>

Check out our fantastic Facebook page! See photos of conferences! Get updated 2YC information! Make friends! Check it out today!

**Twitter: twitter.com/2yc3**

Get short, timely messages from 2YC₃. Twitter is a rich source of instantly updated information. It’s easy to stay updated on an incredibly wide variety of topics. Join today and follow “@2YC3”.



197th 2YC₃ Conference



<http://www.2012bcce.com/>

Plan on Attending!....

22nd Biennial Conference on Chemical Education

at The Pennsylvania State University (PSU) in University Park

CONFERENCE DATES: July 29 to August 2, 2012

Early Bird Registration: March 1 to June 1, 2012

Co-Chairs:

Amy Jo Sanders

ASanders@starkstate.edu

Amy Toole

atoole@pct.edu

C. Michele Turner

cmt@uakron.edu

The Biennial Conferences on Chemical Education (BCCEs) are the premier conferences on chemical education in the world. The ACS Division of Chemical Education (DivCHED) sponsors the BCCEs and The Pennsylvania State University (PSU) in University Park will host the upcoming conference. This will be the 22nd BCCE, happening the same year as the sesquicentennial of the Land-Grant College Act. This BCCE also marks the 197th meeting of the 2YC₃.

The theme of the 22nd conference is a celebration of the “Sesquicentennial of the 1862 Land-Grant College Act” which brought higher education within reach of all Americans. Almost as important, the Act changed the very nature of higher education to increase its focus on science, engineering (industrial arts), and (scientific) agriculture. **Integral to the conference mission are the goals of building bridges between chemistry instructors at all levels; including symposia emphasizing collaborations between and among pre-college, community college, and 4-year college chemistry instruction; and facilitating new and ongoing relationships of mutual benefit to all types of instructors.**

The conference will be held at the University Park campus of The Pennsylvania State University. Located in the scenic hills of rural Central Pennsylvania, University Park is the largest campus in the Pennsylvania system of public colleges and universities and now serves 45,000 students from the United States and much of the rest of the world. This campus is an ideal location for the BCCE in that it possesses the infrastructure and resources to host a world-class meeting and offers a vibrant and extensive list of social programming opportunities within the university and the surrounding area.

The 22nd BCCE 2011 will focus on a wide range of critically important issues in chemical education that address the complex and subtle relationships of teaching, learning and research with particular focus on what will be happening in the next decade. You do not have to be a member of the ACS or DivCHED to attend the BCCE, but you do need to register. ***The time has come for you to register!*** Early bird registration will open March 1st and close June 1st 2012.

Conference Registration/Lodging/Travel: For specific information about the conference, visit the 22nd BCCE Website. This site will be continuously updated with information pertaining to the technical program, registration, housing, and social events as we approach July 29, 2012!

**198th 2YC₃ Conference
Call for Papers and Preliminary Program**

**NEW
DATES**



Inspiring the Next Generation

September 21-22, 2012

**William Rainey Harper College
1200 W. Algonquin Road, Palatine, Illinois 60067**

Call for Papers

We are currently looking for colleagues who would like to contribute to our program by giving a presentation or leading a workshop or round-table discussion. We strongly encourage topics related to our theme “Inspiring the Next Generation” as well as other areas to give us a diverse program.

Contact Program Co-Chairs:

Dan Stanford: dstanfor@harpercollege.edu

Roger House: rhouse@harpercollege.edu

******Submissions Due by June 1, 2012******

Tentative Sessions/ Symposia/Workshops

- Keynote speaker: **Dr. Moses Lee, the Dean of Natural and Applied Sciences at Hope College in Holland Michigan**
- CHOICE Scholars: A content-based summer bridge program for borderline incoming freshmen
- Inspiring the Next Generation: A student’s perspective
- Using ethics in the curriculum to inspire students
- Designing and teaching a blended science course
- Using research projects within standard courses to capture student interest
- Assessing student learning from research projects in the organic laboratory
- The Skyway STEM Student Research Poster Competition and benefits to students
- Research with undergraduates at 2YCs
- Student poster session
- Instrumentation workshops (NMR, GC/MS, and more)
- Friday Evening banquet speaker: **Dr. James Salvador, a Senior Researcher in the Chemical Sciences and Materials Systems Lab at General Motors**

**199th 2YC₃ Conference
Call for Papers**

Old Wine, New Flasks: Chemical Education in the 21st Century

**Nov. 9-10, 2012
Arizona Western College
2020 South Avenue 8E
Yuma, AZ 85366**

Call for Papers

We are currently looking for colleagues who would like to contribute to our program by giving a presentation or leading a workshop or round-table discussion. We strongly encourage topics related to our theme as well as other areas to give us a diverse program.

Contact Program Chair:

Scott Donnelly scott.donnelly@azwestern.edu

**Applications Are Being Accepted for
The Dorothy and Moses Passer
Education Fund**

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 provides grants for teachers at two- and four-year colleges or universities that do not have any advanced degree programs in the chemical sciences. The awards 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 or 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 Sue Nurrenberg. Email: nurrenbe@purdue.edu.

In 2009, the Society Committee on Education (SOCED) convened the Task Force on Two-Year College Activities. The task force was charged with identifying ways in which ACS could support and engage the two-year college chemistry community.

During its tenure, the task force formed partnerships with and drew members from a variety of ACS units, most notably from the CHED Committee on Chemistry in the Two-Year College (COCTYC) and the Two-Year College Chemistry Consortium (2YC₃). Other units include SOCED, the Committee on Professional Training, the Office of Two-Year Colleges, the Committee on Minority Affairs, and the Committee on Chemical Safety. The following are some of the resources developed by the task force and its partners.

Resources for Excellence Workshops

Resources for Excellence is a series of interactive workshops designed to guide participants through the development of customized strategies to address needs specific to their institutions. Facilitators are 2YC₃ volunteers that have received targeted training for the workshops.

The topics of these professional development workshops vary but frequently focus on issues relating to the ACS Guidelines for Chemistry in Two-Year College Programs. Workshops have been offered since Fall 2010. Additional workshops are planned at 2YC₃ conferences and other venues through 2013. More information is coming soon to the ACS website at www.acs.org/2YColleges.

Self-Study Tool

The self-study tool is a resource that supports self-assessment of chemistry education at two-year colleges in the context of the ACS Guidelines for Chemistry in Two-Year College Programs. It was piloted in 2011 and is being refined based on feedback from the pilot and the two-year college chemistry community.

The self-study tool will be available later this year at www.acs.org/2YGuidelines.

Guidelines Resources

Several resources have been developed to assist two-year colleges with implementation of the ACS Guidelines for Chemistry in Two-Year College Programs. The first is “Chemistry-Based Technology Degree Programs at Two-Year Colleges,” an ACS policy statement intended to support implementation of the Guidelines at institutions with chemistry-based technology programs.

An early project of the task force resulted in a series of annual surveys that is being continued by the Office of Two-Year Colleges. One of the results of “Two-Year College Chemistry Landscape 2010: Resources and Priorities” was a collection of 12 case studies demonstrating ways in which two-year college chemistry faculty have fostered excellence at their institutions using the Guidelines.

These and other resources for implementing the Guidelines can be accessed at www.acs.org/2YGuidelines.

Participants in the workshops, self-study, and case studies will share their experiences in a symposium titled, “Fostering Excellence in Chemistry Education at Two-Year Colleges.” The symposium will be part of the 22nd Biennial Conference on Chemistry Education, at Penn State University, July 29—August 2, 2012 (www.2012bcce.com). Specific information on the symposium can be found at www.acs.org/2YColleges.

For more information on these and other ACS activities for two-year college chemistry faculty, please visit www.acs.org/2YColleges or contact the ACS Office of Two-Year Colleges (2YColleges@acs.org, 1-800-227-5558, ext. 6108).

Starter Grants Available for New or Reactivated ACS Student Chapters at Two-Year Colleges



Blake Aronson (ACS Office of Two-Year Colleges) and Chris Zeigler (ACS Undergraduate Programs Office)

The ACS Undergraduate Programs Office, in conjunction with the ACS Office of Two-Year Colleges, is pleased to announce that applications are being accepted for starter grants to support new or reactivated ACS student chapters at two-year colleges. The \$500 grants are awarded on a first-come, first-served basis to qualified applicants.

ACS student chapters are a great way to engage college students of all backgrounds and majors. From outreach to study groups to chemistry-themed events, members participate in a wide range of activities that enhance their college experience and prepare them for successful careers.

More information on the starter grants and other two-year college resources can be found at www.acs.org/2YColleges or by contacting the ACS Office of Two-Year Colleges (2YColleges@acs.org, 1-800-227-5558, ext. 6108). Resources for ACS student chapters can be found at www.acs.org/undergrad or by contacting the ACS Undergraduate Programs Office (undergrad@acs.org, 1-800-227-5558, ext. 4565).

You Can Be a Part of 2YC₃ An Invitation for Submissions to the Chemistry Outlook

From the Editor: I would like to invite any and all members of 2YC₃ to consider submitting interesting and relevant articles, commentary, announcements, job postings or photographs for inclusion into the Chemistry Outlook. *Do you have an interesting and relevant story to tell about your past 2YC₃ experiences? Do you have an interesting classroom activity you'd like to share? How about a demonstration or a teaching technique that you think works especially well? In the past we have published conference commentary, "It Works for Me", photographs of students excelling at presentations and workshop announcements.*

I would ask that submissions be fairly short so that we can include more in the newsletter. Submissions may be published on an editorial appropriateness and space-available basis, and should be typed in Times New Roman font, single-spaced, 12-pt. I look forward to hearing from you!

Deadlines for submissions for 2012:

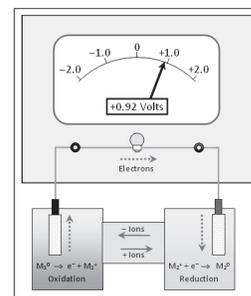
Issue III (due out mid-Aug): June 15

Issue IV (due out mid-Sept): July 15

Electrochemistry

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MicroLab's Mult-EChem Half Cell Module has space for eight metal / ion electrochemical half cells, each equally accessing a central salt bridge through a porous cylinder. Connection of half-cell pairs is clearly visualized and easily implemented. Milled overflow areas prevent spills and mixing of solutions. The aqueous salt bridge will not dry out and voltages are stable for long periods of time. Rugged, small volume, and chemically-resistant.



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Call for applications for the office of Newsletter Editor of 2YC₃ for the 3-year term 2013-2015

Application for Newsletter Editor for 2013-2015 must include:

- A. Pertinent personal data such as name, college, job title, address, etc.
- B. Brief statement of pertinent qualification, signed by the nominee.
- C. A statement indicating a willingness to serve signed by the nominee.
- D. A statement of support from an appropriate person in the applicant's school.

To be eligible to be nominated an individual must:

1. be a two-year college chemistry teacher
2. have been a dues paying member of 2YC₃ a minimum of three years prior to nomination
3. be a member of DivCHED
4. have experience with or willingness to learn the basics of Adobe InDesign and Adobe Photoshop
5. be able to meet quarterly publishing deadlines of approximately mid-late February/March, June, July and December each year.

For more information on the Newsletter Editor duties and responsibilities, please contact the current editor, Jim Schneider, at newsletter@2yc3.org.

- Applications must be received by the Chair no later than OCTOBER 1, 2012.
- The COCTYC will serve as a nominating/screening committee to generate a slate of candidates.
- Each 2YC₃ member shall vote for one nominee per office and the candidate who receives the greater number of votes shall be declared elected.
- Ballots must be received by the Chair postmarked no later than 12/31/2012.

Call for applications for the office of Chair-Elect of 2YC₃ for the year 2014

Application for Chair-Elect for 2014 must include:

- A. Pertinent personal data such as name, college, job title, address, etc.
- B. Brief statement of pertinent qualification, signed by the nominee.
- C. A statement indicating a willingness to serve signed by the nominee.
- D. A statement of support from an appropriate person in the applicant's school.

To be eligible to be nominated an individual must:

1. be a two-year college chemistry teacher
2. have been a dues paying member of 2YC₃ a minimum of three years prior to nomination
3. be a member of DivCHED
4. have demonstrated leadership and organizational ability by serving as Chair or Co-Chair for a conference and in one or more of the following capacities:
 - a. served three years on the COCTYC.
 - b. served as Program Chair, Local Arrangements Chair, or Exhibits Chair for a 2YC₃ Conference.
 - c. chaired a sub-committee of the COCTYC.
 - d. contributed within the past three years two or more ways such as:
 - acted as local industrial sponsor coordinator,
 - chaired a conference section,
 - presented a paper at a conference,
 - moderated a panel at a conference,
 - other ways an individual has contributed

- Applications must be received by the Chair no later than OCTOBER 1, 2012.
- The COCTYC will serve as a nominating/screening committee to generate a slate of candidates.
- Each 2YC₃ member shall vote for one nominee per office and the candidate who receives the greater number of votes shall be declared elected.
- Ballots must be received by the Chair postmarked no later than 12/31/2012.

Election Results 2012 2YC₃ COCTYC Position

Congratulations and welcome to the following new COCTYC member:

- Chair-Elect 2013: **Neil Bastian**, Salt Lake Community College.

What's Happening in My Area? News From the Regional Advisory Boards (RABs)

Western RAB Dick Gaglione, Chair

Dr. David R. Brown, Professor of Chemistry, at Southwestern College in Chula Vista, CA was awarded a generous grant from the U.S. National Science Foundation for an endeavor to celebrate the International Year of Chemistry in 2011. The proposal is entitled Project iLASER-Using Sunlight to Power the Planet. "iLASER" is an acronym for "investigations with Light and Sustainable Energy Resources."

Brown is a member of the 2YC₃ WRAB and has in the past distinguished himself as a role model for two-year college faculty by raising the level of chemistry instruction at Southwestern by installing undergraduate research experiences for his students and acquiring state of the art instrumentation for their use via both tax levy and external funding. He has presented papers and posters of his students' research at many 2YC₃ and ACS National and Regional Meetings. His College is a two-year institution that is located 8 miles from the U.S.-Mexico border with a predominantly Hispanic student body which instills in him a sense of urgency to increase the numbers of these students to pursue an education that leads to Science, Technology, Engineering and Mathematics (STEM) fields. In 2007 at an ACS Western Regional meeting in San Diego he was awarded the Stanley C. Israel Award for Advancing Diversity in the Chemical Sciences.

His iLASER Project began in September 2011 when he embarked on a 2,000-mile road trip to do outreach at elementary schools and Boys and Girls Clubs along a stretch of the U.S.-Mexico Border where Hispanic communities are concentrated from California to Texas. Students participated in Hands-on activities that exposed them to real life problems by building and testing dye-sensitized cells while learning about the properties of light and solar energy. The details of his trek was the subject of an article by Linda Wang in the December 5, 2011 Issue of Chemistry & Engineering News. Similar articles also appeared in the Imperial Valley Press, Chicago Tribune, Valley Morning Star and Eagle & Times from August 9, 2011 to January 3, 2012. Videos were taken at various visits and appear with personal comments by David and other local and national educators on his web site, <http://www.chemdude.com> which also includes links to further details of this project.

Dr. David R. Brown is a Caucasian male who may not be a culturally relevant role model for many of his students but he is definitely an educator with an agenda for advancing all of his students to succeed in learning at various levels of science education while guiding them to STEM careers. In 2012 he was selected to receive the Award for Incorporating Sustainability into Chemistry Education by the ACS Committee on Environmental Improvement. David is a man with blue collar roots and white collar dreams who understands that many students need to be exposed to real life problems that require mastery of STEM subjects to solve them.

Eastern RAB Brahmadeo Dewprashad, Chair

The Eastern Region benefited from a usually mild winter and is looking forward a beautiful spring and increasingly colorful backdrop for faculty members' work in the Eastern Region. With the regional unemployment rate still high, many more are returning to colleges for retraining. There is greater enrollment in chemistry courses and faculty members are challenged to do more with less. As such, there is renewed interest in grant writing and other professional development opportunities. Many members of the Eastern Region have taken leadership roles in organizing for the 2012 Biennial Conference on Chemical Education which will be held at Penn State University, University Park, PA from July 29-August 2, 2012. The meeting, whose theme is "Chemistry in the First State", promises to be an educational and exciting event. Details for the meeting can be obtained from: <http://www.2012bcce.com/>.

There is good news from colleges in the region. Dr. Ann Sullivan and Dr. Kristine Smetana are leaders in the vibrant ACS Virginia Section. Dr. Sullivan, a long-time faculty member of J. Sargeant Reynolds Community College, serves as an ACS Councilor from the Section and has been sought out as a member by several national ACS committees. She has served the

What's Happening in My Area? News From the Regional Advisory Boards (RABs)

Section in nearly all possible positions, including Chair. She runs the Section's Olympiad testing program and provides most of the direction of high school teacher programs. Dr. Smetana directs Earth Day and Chemistry Week award-winning programs that directly contact thousands of Virginia citizens. Both of these two-year college chemistry faculty members use their colleges for ACS Section and committee meetings. They ensure that community college chemistry is recognized as a vital part of the large and vibrant central Virginia chemistry community.

Hagerstown Community College (HCC) held its first STEM Festival (Science, Technology, Engineering, and Mathematics) on Sat., April 28, 2012 in the new STEM Building.

The HCC STEM Festival generated interest from students from all over the Maryland, Pennsylvania, and West Virginia regions and provided an opportunity to tour HCC's new STEM Building, which opened in Jan. 2012. Please see the following link for more information: <http://www.hagerstowncc.edu/science-festival>.

The process of renovating chemistry lab facilities at Valley Forge Military College has begun with support from a Richard King Mellon Foundation Grant. The initial effort was an upgrade of data collection equipment supported by the grant. Student response has been very positive. The ability to follow real-time system changes resulted in labs running overtime to answer the question "Can I try this?". Long term goals include collaboration with the biology department to study water chemistry in the brook flowing through the campus employing the new equipment.

NASA, as part of its Cooperative Agreement Notice, "Global Climate Change Education: Research Experiences, Teaching and Learning," awarded a \$486,919 grant to Dickinson College, which will work with its community college partners—Montgomery County Community College (MCCC), Northampton Community College, Harrisburg Area Community College and Montgomery College in Maryland—to promote interdisciplinary teaching about climate change. Geology Professor Robert Kuhlman will lead the initiative for MCCC and will be working closely with Neil Leary, director of Dickinson College's Center for Environmental and Sustainability Education. Representatives from participating colleges will serve on a Climate Change Curriculum Task Force that will shape the development of the curriculum and teaching practices. In addition to resources and materials provided by NASA, task force members will be able to utilize information from the Center for Climate System Research at Columbia University.

"These are pertinent, timely issues," Kuhlman said. "This program will enable us to tap into talent and expertise beyond Montgomery County Community College and then allow us to integrate this information and make changes here at the College to further enhance the program for our students."

While these concepts are currently taught in environmental and science classes at the College, the program will strengthen the quantitative elements in the existing instruction and will help to infuse climate change and sustainability into a variety of courses, Kuhlman explained. "In mathematics, for example, professors can incorporate the rate of decline of arctic sea ice, the loss of tropical rainforests and the collapse of the cod and salmon populations in their illustrations as part of what they are teaching," he said. The Earth's evolving climate not only produces environmental changes, but also economic, social and political ramifications. Professors can include and discuss these results in economics, political science, history and humanities classes. "The College acknowledged this by its decision to incorporate concepts of sustainability in our new Core curriculum," he said.

Kuhlman will meet with the Task Force members in mid February to start discussing the new curriculum. He plans to participate in residential curriculum development workshops at Dickinson College beginning in May. Training will continue through the summer with the goal of implementing elements of the new curriculum in the fall in geography and science courses at both Central and West campuses.

Vincennes University
Committee on Chemistry in the Two Year College
1002 North First Street
Vincennes, Indiana 47591-5201

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Jason Jadin, CHAIR
Jim Schneider, EDITOR
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