

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

Chemistry Outlook

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

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Jason Jadin, Chair

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Notes From The Chair

Jason Jadin
Rochester Community and Technical College
Rochester, MN

Welcome to the upcoming academic school year! I am writing this letter during the summer which is supposed to be relaxing, but I find myself quite busy. I am currently teaching our GOB I course. This 4 credit course is taught in a 6 week summer term. It meets Monday through Thursday for an hour and forty-five minute lecture and has a couple of two-hour labs which meet three days a week. Every two to three days there is a quiz and an exam every week. The pace keeps me busy with writing and grading assignments, but it keeps the students even busier. Even though the summer session is high-speed, I love teaching during the summer.

It is the students which make the summer term so enjoyable. First, the lecture size during the summer is less than 48 students compared to the 72 or 96 I have in the fall or spring term. The smaller class size seems to make the student group more like a close knit family. Maybe it is the feeling that they are all in the same boat with the pace of the course. Seeing the students four hours a day also makes a difference in our comfort level with one another. The summer term also seems to be less formal. Students are more likely to ask questions during lecture or stick around once they complete the lab to chat about the homework or go over a problem.

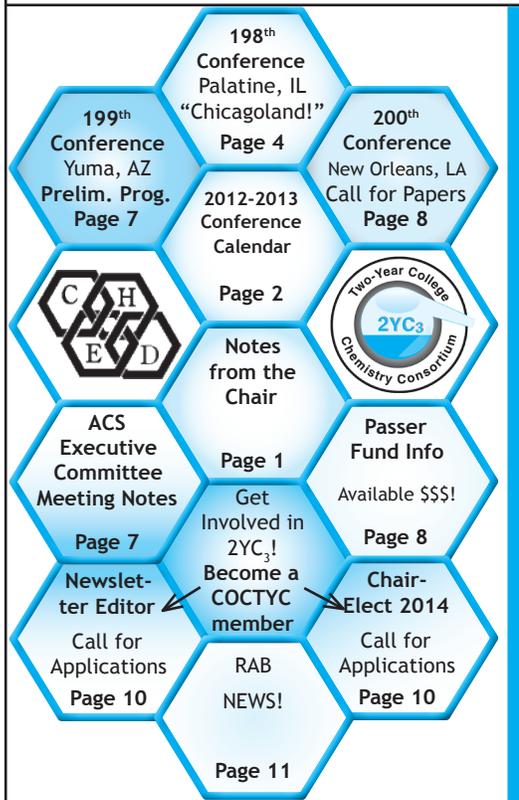
Some instructors say they have better students during the summer. I don't totally agree with that thought. I don't see a big difference between the summer student and the fall/spring semester student. I think the big difference is the fact that students during the summer term only take one course. They can focus all of their academic efforts towards learning chemistry. They don't have to balance their studies between different courses. There is only one exam or quiz per week to worry about. There is only one final grade which will affect their final GPA. This is not to say they don't have other activities such as work and family – they do, but minimizing distractions goes a long way towards academic success.

This summer is the first time I am requiring completion of on-line homework using the textbook publisher's platform. I was hesitant about starting this in the summer. It might be too much for the students handle and I might have a revolt on my hands. After weighing the pros and cons, I decided to go ahead with the on-line homework. A couple of weeks into the summer session, I had several students approach me to

continued on page 2

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Vol. 2012 – Issue III



ACS
Chemistry for Life®



198th CONFERENCE (Midwestern)

Sept. 21-22, 2012

Harper CollegePalatine, IL

Contact: Dan Stanford

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

Nov. 9-10, 2012

Arizona Western CollegeYuma, AZ

Contact: Scott Donnelly

Email: scott.donnelly@azwestern.edu**200th CONFERENCE (Southern)**

April 5-6, 2013

Delgado Community CollegeNew Orleans, LA

Contact: Tamika Duplessis

Email: tduple@dcc.edu**“Notes from the Chair” ...continued from page 1**

talk about the homework. I was preparing to defend my position, but instead of complaining about it they mentioned about how much they liked it. They liked the tutorials and the feedback. It made them feel like they had constant access to an instructor. It also helped reinforce the concepts learned in lecture. With a longer lecture period it was hard to comprehend all of the information, but doing the homework assignments later that evening helped fill in the gaps.

That's what I am up to this summer, but before I end my note I would like to update everyone on a few activities. Towards the end of April, 2YC₃ held its 196th conference. This conference was the first virtual conference held by this organization. The one-day conference had 147 registrants. The attendees logged on for an average of 4 hours and the 7 sessions averaged 68 attendees. Survey results indicated that 92% of the attendees were very likely to attend another virtual conference while the other 8 % were somewhat likely to attend another virtual conference. While there was overwhelming support for conducting future virtual conference, the preferred format was evenly split. One-third would prefer a one-day conference once a year, one-third for an hour long webinar each month of the year, and one-third for an hour long webinar each month of the year excluding the summer months. While the future format might be up in the air, it is safe to safe that 2YC₃ will offer another virtual conference soon. Thank you Lance Lund, Joan Sabourin and Blake Aronson for organizing this well-run conference.

One other news bit. If you have attended a conference during

the past few years, you may have noticed a workshop series entitled, “Resources for Excellence.” The workshop series is a collaboration between 2YC₃, the SOCED Task Force on Two-Year College Activities, and the ACS Office of Two-Year Colleges. Candice Campbell was involved with the Task Force's workshop group and handled many of the logistics need to create these workshops at the various conference. The work of the Task Force has come to an end, but we need to continue offering this valuable workshop series. During our spring meeting, the COCTYC authorized the creation of a new position called the Workshops Coordinator. The Workshops Coordination will serve under the Past Chair-Future Site Coordinator and be responsible for:

- Providing leadership and direction for the workshop facilitators
- Coordinating workshop facilitation
- Leading debriefing, when feasible, and facilitator training sessions
- Working with COCTYC to provide venues and promotional opportunities for the workshops
- Reporting to and serve as a consultant to the Two-Year College Advisory Board
- Ensuring the Office of Two-Year Colleges is kept up-to-date on the results of all workshops
- Facilitating discussions and usage of ACS Network group for facilitators
- Collaborating with the Office of Two-Year Colleges on
 - o Identification of venues for the workshops
 - o Identification of future directions for the workshops
 - o Recruitment and selection of new facilitators
 - o Input on workshop promotion, document management, and logistics

I am pleased to announce the appointment of Amy Jo Sanders to a three year term as the Workshops Coordinator. Amy Jo has been involved in our organization for a number of years. She has served as the Midwestern RAB coordinator, program chair (Stark State and BCCE), and is a trained workshop facilitator. Welcome and congratulations, Amy Jo!

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”.



198th 2YC₃ Conference
Conference Program

NEW
DATES

Inspiring the Next Generation

September 21-22, 2012

William Rainey Harper College

1200 W. Algonquin Road, Palatine, Illinois 60067

Program Co-Chair:	Dan Stanford	dstanfor@harpercollege.edu	847-925-6792
Program Co-Chair:	Roger House	rhouse@harpercollege.edu	847-925-6688
Local Arrangements:	Joseph Wachter	jwachter@harpercollege.edu	847-925-6157
Local Arrangements:	Julie Ellefson	jellefso@harpercollege.edu	847-925-6694
Exhibits Coordinator:	Thomas Dowd	rhouse@harpercollege.edu	847-925-6695

Friday, September 21

8:00 – 5:00 **Exhibits**

8:00 – 9:00 **Registration, Refreshments, and Exhibits**

9:00 – 9:15 **College President's Welcome and Opening Remarks**
Dr. Kenneth Ender, President, Harper College

9:15 – 10:15 **Keynote Address**
Dr. Moses Lee, Dean of Natural and Applied Sciences, Hope College, Holland, MI

10:15 – 10:45 **Refreshment Break and Exhibits**

10:45 – 11:25 **2YC₃ General Membership Meeting**

11:30 – 12:15 **Parallel Presentation Session 1**

A. High Altitude Research Platform with real-time sensors for engaging undergraduates in STEM
Don Takehara, Taylor University, Upland, IN

B. The Role of a Lab Director in Today's Community Colleges
Matthew Sweis, Lab Director, Moraine Valley Community College, Palos Hills

12:15 – 1:00 **Lunch Break and Exhibits**

1:00 – 3:00 **Workshop**

Resources for Excellence: A Collaborative Project of the 2YC₃ and the ACS
Dolores Aquino, San Jacinto College, TX
Amy Jo Sanders, Stark State College, Canton, OH

1:00 – 1:45 **Parallel Presentation Session 2**

A. Introducing Multiculturalism Into the Chemistry Lab via an Investigation of Rubber
Joe Wachter, Harper College

B. Inspiring the Next Generation by Infusing Concepts of Forensic Chemistry into the Curriculum
Bal Barot, Lake Michigan College, Benton Harbor, MI

- 1:50 – 2:35 **Parallel Presentation Session 3**
A. Inspiring Enthusiasm via Authentic Research Projects in Organic Courses
Daniel Stanford, Harper College
B. Development of a Food Chemistry Course
Gunay Ozkan, College of Southern Nevada, Las Vegas, NV
- 2:35 – 3:00 **Refreshment Break and Exhibits**
- 3:00 – 3:45 **Parallel Presentation Session 4**
A. Assessing Student Learning From Research in the Organic Laboratory
Roger House, Harper College
B. Designing and Teaching a Blended Science Course
Deepa Godambe, Harper College
- 3:00 – 3:45 **Tour of Harper Chemistry Department Facilities with Emphasis on Safety Features**
Guided by Kelly Jones, Coordinator of Chemical Technologies & Chemical Hygiene Officer
Tour begins at room Z308
- 3:50 – 4:35 **Parallel Presentation Session 5**
A. Online Tools for the In-person Lab: Instructional Videos and Quizzing to Prepare and Assess Students in the Introductory Chemistry Lab Course
Andrew Aspaas, Anoka-Ramsey Community College, Cambridge, MN
B. Undetermined (proposals invited)
- 4:35 – 5:00 **Refreshment Break and Exhibits**
- 6:00 – 8:30 **Dinner Banquet and Address**
Dr. James Salvador, Senior Researcher, Chemical Sciences and Materials Systems Lab, General Motors

Saturday, September 22

- 8:30 – 4:00 **Exhibits**
- 8:30 – 9:00 **Registration, Refreshments, and Exhibits**
- 9:00 – 9:15 **Opening Remarks**
- 9:15 – 10:00 **Parallel Presentation Session 6**
A. The Skyway Collegiate Conference STEM Poster Contest
Steve Socol, McHenry County College, Crystal Lake, IL
Alejandra Hernandez, and Grant Thompson, Students McHenry County College, Crystal Lake, IL
B. Inspiring and Mentoring After the Fact... Students' Perspectives
Amy Joy Richter, Abbott Laboratories
Anna Angiuli Weiss, Loyola University Chicago
Jayne Wilcox, Harper College
- 9:30 – 12:05 **Workshop (Registration Required)**
Instrumentation: Sodium NMR of Foods and GC Analysis of Nail Polish Remover
Daniel Stanford

10:00 – 10:30 **Refreshment Break and Exhibits**

10:30 – 11:15 **Parallel Presentation Session 7**

- A. Incorporating STEM Research in a First Semester Science Course
Pamela Goodman, Moraine Valley Community College, Palos Hills
Dana Hamed, Melissa Lonski, Tiwana Morrison, and Robert Simon, Students, Moraine Valley Community College, Palos Hills

B. Undetermined (proposals invited)

11:20 – 12:05 **Parallel Presentation Session 8**

- A. Implementation and Effectiveness of Group Teaching Strategies
Tom Dowd, Harper College, Palatine

B. Undetermined (proposals invited)

12:05 – 1:00 **Lunch Break and Exhibits**

1:00 – 3:00 **Student Poster Session**

1:00 – 1:45 **Parallel Presentation Session 9**

- A. How To Teach Safety to the Next Generation When Your College is Stuck in the Last Century
Kelly Jones, Coordinator of Chemical Technologies & Chemical Hygiene Officer, Harper College

B. Undetermined (proposals invited)

1:50 – 2:35 **Parallel Presentation Session 10**

- A. Choice Scholars: A Summer Bridge Program
Julie Ellefson, Harper College

B. Undetermined (proposals invited)

2:35 – 3:00 **Refreshment Break and Exhibits/Closing Session**

Registration

Registration can be completed at the 2YC₃ website: www.2yc3.org, click on Meetings tab.

Lodging and Directions

These hotels are approximately two miles south of the Harper campus and will have shuttle service available to the campus.

Holiday Inn Express Chicago-Schaumburg
1550 North Roselle Road
Schaumburg, IL 60195
(847) 310-0500
\$76/night; mention 2YC₃ conference group
Deadline to book is August 23rd.

Wingate by Wyndham Schaumburg
50 Remington Road
Schaumburg, IL 60173
(847) 882-5000
\$85/night; must call hotel directly and mention 2YC₃ conference
Rate is good as long as rooms are available.

Directions to Harper College

From the north: Take Highway 53 south to Algonquin Road exit. Go west on Algonquin Road to Harper College. The entrance to the College is on the north about one block east of Roselle Road.

From the south: Take Highway 53 north to Algonquin Road exit. Go west on Algonquin Road to Harper College. The entrance to the College is on the north about one block east of Roselle Road.

From the east: Go west on the Northwest Tollway (I-90) to the Roselle Road exit. Go north on Roselle Road to Harper College. Go east on Algonquin about one block and then turn left onto the campus.

From the west: Go east on the Northwest Tollway (I-90) to Highway 53. Go north on Highway 53 to the Algonquin Road exit. Go west on Algonquin Road to Harper College. The entrance to the College is on the north about one block east of Roselle Road.

From O'Hare International Airport: Go west on the Northwest Tollway (I-90) to the Roselle Road exit. Go north on Roselle Road to Algonquin Road. Go east on Algonquin about one block and then turn left onto the campus.

The Avante Center is the large building with the glass concourse facing Algonquin Road. The registration table will be near the main entrance and exhibits will be located in the concourse.

	ACS Chemistry for Life®	News from the Spring ACS ExCom Meeting
		Mark Matthews
		Past Chair, DivCHED Liaison

The Spring Executive Committee (ExCom) meeting of the ACS Division of Chemical Education was held on March 24, 2012 at the San Diego Convention Center, as part of the Spring National ACS meeting. The follows items will be of interest to 2YC₃:

New ACS Strategic Plan

ACS has approved the new strategic plan. The previous plan had six goals, none of which covered chemical education. The new plan has four goals and #3 is "Improve Education: Foster the development of the most innovative, relevant, and effective chemistry education in the world." The goals can be viewed at strategy.acs.org and a promotional video can be viewed at <http://vimeo.com/36990661>

Chemistry Teachers Association

For the past year a task force has worked on the creation on a Chemistry Teachers Association (CTA) for high school chemistry teachers, which DivCHED voted to support during the San Diego conference. They will be a stand-alone entity, governed by volunteers, and housed within the ACS Education Division. Any 2YC₃ members that are interested in helping lay the groundwork for this institution can contact me (pastchair1@2yc3.org), and I will pass their contact info to DivCHED.

Free Downloads of ACS Articles

The Board of Publications agreed to permit all ACS members to have free downloads of up to 25 articles from any ACS journal, as part of the Society's new ACS Member Universal Access Benefit.

Current BCCE Schedule

2012 – Penn State, PA

2014 – Grand Valley State, MI

2016 – University of Northern Colorado, CO

199th 2YC₃ Conference
Call for Papers and Preliminary Program

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

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

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 Chair:

Scott Donnelly scott.donnelly@azwestern.edu

*****Submissions Due by September 15, 2012*****

Tentative Sessions/ Symposia/Workshops

- Keynote Speakers:
Peter Morse, Santa Monica College
Clemens Heske, University of Nevada-Las Vegas and Karlsruhe Institute of Technology
- Leveraging 2YC₃ and ACS resources to improve student learning and improve faculty effectiveness
- American Chemical Society: Partners in supporting excellence in two-year colleges
- Dual enrollment in chemistry
- NMR as a quantitative tool
- Teaching how we think instead of what we know
- Energizing general chemistry with solar-directed hydrogen-oxygen fuel cells
- Friday Evening banquet speaker: **Malcolm Hughes, Regents Professor, University of Arizona**

**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.

200th 2YC₃ Conference
Call for Papers

Balancing the Instructional Equation: Tradition vs. Technology

April 5-6, 2013
Delgado Community College
615 City Park Avenue
New Orleans, LA 70119

We are currently looking for colleagues who would like to contribute to our program by giving a presentation, leading a workshop, or participating in panel discussions. We strongly encourage topics related to our theme “Balancing the Instructional Equation: Tradition vs. Technology” as well as other areas to give us a diverse program.

Contact Program Chair:

Tamika Duplessis tduple@dcc.edu

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 2013:

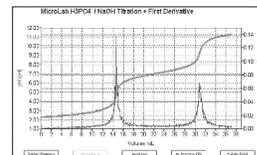
Issue I (due out mid-Jan 2013): December 15, 2012
Issue II (due out mid-April 2013): March 15, 2013
Issue III (due out mid-July/August 2013): June 15, 2013
Issue IV (due out Sept 2013): July 15, 2013

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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. A brief statement of pertinent qualifications, 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, and benefits of being a COCTYC member, 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. A brief statement of pertinent qualifications, 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.

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

Midwestern RAB
Amy Jo Sanders, Chair

Greetings from the Midwest! Hopefully many of you have responded to the call for papers for the 189th Conference at Harper College in IL. Dan Stanford and his committee have been working diligently to make this another successful 2YC₃ event. Please encourage your Midwestern colleagues to present or attend.

At this time I would like to introduce you to Bernadette Harkness, our newest RAB member. She earned her Ph.D. from McGill University in Montreal, Canada. Currently she is an Assistant Professor of Chemistry at Delta College in Frankenlust, MI where she has been teaching chemistry full time since 2007. Delta College is an outstanding two-year institution that has fostered occupational programs with the neighboring industries, Dow Chemical and Dow Corning. These relationships have led to some very unique chemistry programs such as the Chemical Process Technology program for process operators.

Bernadette and her colleagues at Delta College will be hosting the Fall 2013 2YC₃ meeting in September, 2013. This will be an excellent opportunity to get acquainted with Bernadette and all that she brings to our organization.

Western RAB
Dick Gaglione, Chair

The College of Southern Nevada (CSN) is developing a new chemistry laboratory course, High School AP Chemistry Laboratory, for high school AP Chemistry students. The course will be designed to fill a need in the Southern Nevada area for laboratory experiences that better prepare and further expose high school students to the laboratory aspects of chemistry. The 1 credit CSN course is targeting AP Chemistry students as the shrinking state educational budgets have limited student's exposure to a fraction of the 22 AP recommended chemistry labs in local high schools.

AP Chemistry allows students to pursue college level studies while they are still in high school. AP allows willing and academically prepared students the opportunity to earn both college credit and advanced placement. AP chemistry students in the Southern Nevada area often participate in the American Chemical Society's Local and National Chemistry Olympiad as an additional preparation for their AP Chemistry Exam. Students who qualify and take the National Chemistry Olympiad often indicate that they have had limited exposure to chemistry labs and equipment in their high school AP Chemistry classes. The Local ACS Chemistry Olympiad Coordinator, Dr. Mark Garner, is collaborating with Dr. Robert Allen in the development of this 1 credit Laboratory Course to fill a need in the community that is not currently being met for high school students at the AP level. Dr. Garner is the past chair of the CSN Physical Science Dept and Professor of Chemistry at CSN while Dr. Allen is a former AP Chemistry teacher with decades of experience teaching AP Chemistry. Together they are developing a course that meets this need by offering a trial section of the proposed course in the fall 2012 semester by designing experiments based on those recommended by the College Board AP course description. This trial section will be called High School AP Chemistry Laboratory (CHEM 198b).

The complete details of the AP Chemistry High School Program can be accessed via the following:
<http://apcentral.collegeboard.com/apc/public/repository/ap-chemistry-course-description.pdf>

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

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