



Pipeline Press







Chemistry: A Pipeline to 21st Century Careers

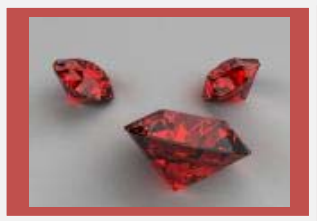
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VOLUME 2, NUMBER 3

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Cool Chem Fact Did you Know?



Aluminium *The Metal* *Women Love!*

Aluminium (13) is a well known element. This light weight metal is used almost everywhere - look around and you will find surely something made from aluminium, cars, aircrafts, computers aluminium is everywhere. But not everyone knows that aluminium is also the most wanted metal by women. Aluminium oxide with trace amount of chromium is better known as ruby, the second best jewel, bested only by the diamonds.

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Director's Message...



Dear Readers,

The excitement of the end of the school year starts to be noticeable right around this time. Students are anxious to hear of the transfer schools they have been accepted into; the results of internship opportunities they have applied for; and news of scholarships they might have been awarded. More significant however is the

realization of completing another step toward their individual academic pathway.

My students have been busy holding group discussions, researching assigned independent literature projects, giving oral presentations and working on independent laboratory projects. One of their favorite instruments is the new GC-MS, especially when they can "see" a pure sample. But the number one instrument of all is the Anasazi 60 Eft NMR. All organic chemistry students are now very comfortable analyzing proton spectra!

In addition to all the academic work taking place, we always have time to reach out. There are a several science oriented student clubs holding outreach activities on campus. An activity that attracted a lot of attention was a panel of women scientists, including a chemist, and engineers. We were very fortunate to attend a tour of the IBM Almaden site where we visited several of their laboratories and made many networking connections. We had a very successful "ESL meets chemistry" activity. Approximately 130 of our ESL students were assisted by chemistry student volunteers to do mini chemistry experiments. ESL students were very impressed by their ability to manipulate actual chemicals and with our laboratory facilities. Many students expressed interest in learning more about chemistry.

This semester we also had many interactions with high school students. We had high school students visiting from Carlmont High School, Half Moon Bay High School and Sequoia High School. They took a tour of our instrument rooms and our new laboratory rooms. They learned about our chemistry programs. In addition, I brought Chemical Laboratory Technology informational materials to the Capuchino High School career fair. I had a great time answering lots of students' questions about chemistry. Furthermore, we were very excited to have Susan Tan and her high school students volunteer to man activity tables during Nanodays.

I have continued conversations with our local high schools to create appropriate articulation agreements that could create clear pathways into our Chemical Laboratory Technology Program.

Jeanette Medina

Volunteer Industry Partners Needed

We are seeking to establish valuable industry alliances to assist us with the development of an Associate in Science in Chemical Laboratory Technology degree and a Chemistry Laboratory Technology Certificate. For additional information contact Dr. Jeanette Medina, Project Director at (650)306-3255 or (650) 306-3304, by email at Canada.NSFGrant@smccd.edu.

Help Needed!

If you seek individuals with excellent laboratory and employability skills we would like to hear from you!

Please contact us at:

(650) 306-3304

email us at:

Canada.NSFGrant@smccd.edu

Cañada College News

**Two Cañada College
Chemistry Students
Named to Phi Theta
Kappa All-California
Academic Team**

**Jeremy Morales Madrigal &
Isaiah Roggow were honored at
a March 22 awards luncheon in
Sacramento.**

A chemical engineering major and a student studying nutrition science have been selected to the All-California Academic Team by Phi Theta Kappa, the national honor society for community colleges. Both were recognized at a March 22 award luncheon in Sacramento.

Jeremy Morales Madrigal of Redwood City is studying chemical engineering and was the only community college student selected last year to participate in Stanford University's prestigious Center on Polymer Interfaces and Macromolecular Assemblies Summer Undergraduate Research Experience. He is hoping to transfer to Stanford to finish his undergraduate studies.

Isaiah Roggow of Santa Clara is a nutrition science major who is focusing on community health and plans to transfer to UC Davis next fall. Roggow has submitted an economics paper to several agencies for publication.

Both students are actively involved in Phi Theta Kappa at Cañada College and are members of the school's Honors Program. They are both enrolled in Organic Chemistry and Chemistry Independent Study under Professor Medina.

Project News:

Grant No-Cost Extension Approved

On January 27, 2010 our grant "*Chemistry: A Pipeline to 21st Century Careers*", National Science Foundation ATE Grant #0703188 was amended to extend its end date from April 30, 2010 to April 30, 2011. No additional funds were awarded, but we were given an additional 12 months to allow for the completion of the agreed level of effort for our grant.

CHMT 340 - Introduction to Chemical Laboratory Instrumentation

A new course is being offered at Cañada College beginning with the Fall 2010 semester. This new course, Introduction to Chemical Laboratory Instrumentation (CHMT 340), introduces the principles of identification, analysis and quantification of chemical systems. It includes hands-on experiments to demonstrate industrial applications of chemical methods; and spectroscopy and chromatography instrumentation encountered in research laboratories. Emphasis will be on the comparison of methods, the collection and interpretation of laboratory data, and the technical reporting of experimental findings. As a part of the Chemical Laboratory Technology Program this introductory course prepares students to work in research laboratories to study and develop new chemical processes and materials to meet the technological needs of an ever changing chemical industry.

Upcoming Events

Sequoia High School "Upward Bound" Students Visit Cañada College Campus, April 17, 2010

Thirty Sequoia High School Students who are part of the "Upward Bound" program will be visiting the Cañada College campus to participate in a student panel discussion and hands-on chemistry experiments.

Outreach Day at Eastside Prep High School, East Palo Alto, April 23, 2010

Melody Yang, Ph.D., NSF Grant Outreach Coordinator and Jennifer K. Schwartz, Ph.D., Introductory Course Coordinator/Lecturer, Dept. of Chemistry, Stanford University, have planned a hands-on Density Lab to be held for students at Eastside College Preparatory School, a local high school committed to opening new doors for students historically underrepresented in higher education.



For additional details about our grant go to the National Science Foundation Website at:

<http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0703188>



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We're on the Web!

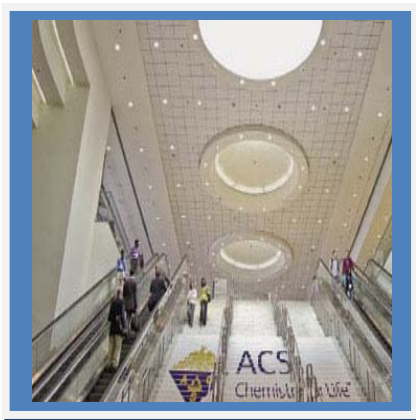
www.canadacollege.edu/nsfgrant

Newsletter archives can be found on the Photo Gallery page of our site

Events This Quarter

March 19-20, 2010 - Two Year College Chemistry Consortium Conference, San Francisco City College

Two-Year College Chemistry Consortium held its 187th conference at San Francisco City College, March 19-20. Over 160 registrants attended the conference which was the best attended conference in the last 15-20 years. The two-day program theme was "Strategies for a New Decade: Increasing Student Success and Diversity" and on Friday, March 19th, Dr. Medina gave an oral presentation in the symposium entitled "Recruiting and Retaining High School Students in College Chemistry Programs."

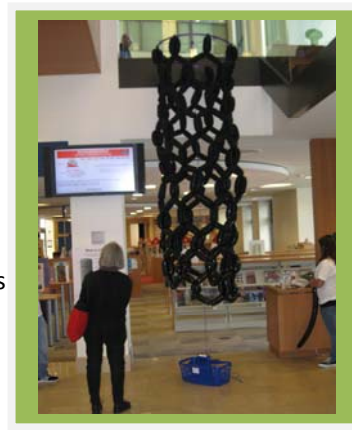


March 21-25, 2010 - American Chemical Society Spring National Meeting, San Francisco

Some 17,948 people were registered to attend including 9,648 regular registrants, 5,694 students (Dr. Medina took four chemistry students), 1,214 exhibitors, 881 exhibit-only registrants, and 511 guests. The meeting theme, "Chemistry for a Sustainable World," was reflected in almost 1,600 presentations in 95 sessions programmed by 23 divisions. The technical program was also extensive, with nearly 12,500 technical papers presented. Dr. Medina presented in a symposium entitled "Strategies for Enhancing Student Transfer and Success."

March 27 – April 4, 2010 - NanoDays

Sponsored by the Nanoscale Informal Science Education Network (NISE Net), the Genentech Foundation Biotechnology Learning Center and NSF Grant #0703188, NanoDays engaged people of all ages in a miniscule world where materials have special properties and new technologies have spectacular promise. The event took place over two days at the San Mateo Public Library. Our NanoDays activities combined simple hands-on activities for young people with events exploring current research for adults. Our keynote speaker was Tobi Beetz, PhD, Associate Director of the Center for Probing the Nanoscale at Stanford University.



February 25, 2020 - Tech Prep Career Day

Tech Prep Career Day is an annual event held each Spring where local high school students are invited to visit our campus to hear about the many different programs we offer. For many, this is their first time on a college campus. This year the Chemistry Department was invited to participate to showcase the new *Chemical Laboratory Technology* program. Students listened to a short presentation by Dr. Medina, viewed an informational DVD, and got a tour of our new Chem Lab Tech classrooms.