



Pipeline Press



Chemistry: A Pipeline to 21st Century Careers

OCTOBER 7, 2008

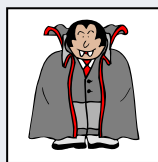
VOLUME 1, NUMBER 1

Contents

- ✚ Director's Message
- ✚ Project News
- ✚ Current Events
- ✚ Upcoming Events

Pool Chem Fact

Did you Know?



Silver – How to kill a Vampire...

In many cultures silver (47) is recognized as a magical element which has the power to hurt unnatural beings. A silver-covered arrow or bullet was an ultimate weapon against vampires and werewolves as well as silver-made swords or daggers. Silver was dedicated usually to the goddesses of Moon and sea, used commonly in many alchemical rituals and in some ancient cultures was more valuable than gold.

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Director's Message...



Welcome to the first issue of the *Pipeline Press*, a newsletter to keep you informed about the events, activities and accomplishments of "Chemistry: A Pipeline to 21st Century Careers," a National Science Foundation Grant awarded to Cañada College in 2007 and Gene:Connection-Chem:Connection, a High School science outreach program from the San Mateo County Office of Education. This multi-

focused project seeks to increase the recruitment, retention and success of students in the chemistry career pipeline, particularly from underrepresented groups, to produce the technological workforce needed to fill the demands of our local industry. I would like to introduce our project team:

Jeanette Medina, Project Director

Jeri Eznekier, Assistant Project Director

Kim Marie Hansen, Gene:Connection Program Head

Melody Yang, High School Chemistry Outreach Coordinator

Our project team has been hard at work to create long lasting and beneficial alliances among high schools, community colleges, four-year universities, workforce development agencies, local industry, and the community. For more information or to find ways to get involved, please check out our web site or contact any member of our team.

...Jeanette Medina

Project News:

During the first year of our grant, many important objectives were met that greatly enhanced the learning and awareness of career employment opportunities for students in our district. Several of these events are highlighted below:

- ✚ Guest speakers with Chemistry degrees including the CEO and Founder of Micro Lithography; a Pediatrician; a Bio-tech patent attorney from Genetech; a scientific freelance technical writer, and a research chemist from Amgen.
- ✚ Cañada College students participated in field trips including visits to the Stanford Linear Accelerator Center, the ChemoCentryx research laboratory, and the BioStride research laboratory.
- ✚ A wide variety of specialized equipment was purchased with money from our grant including:
 - ❖ UV/VIS Spectrometer with integrated sphere
 - ❖ Educational Gas Chromatograph with built-in air compressor
 - ❖ 19 Vernier Spectrometers (SVIS) with a large variety of probes and sensors to support newly developed high school curriculum in chemistry, water quality and environmental science.

Cañada College News:

Fall Semester 2008 Enrollment Statistics

San Mateo Community College
District: 64,340 students

Cañada College:
14,400 students (up .8%)

Sci & Tech Div: 2,925 students

Chemistry Dept: 160 students

www.canadacollege.edu

Gene:Connection News:

September 6th
Gene Connection Bio/Chem
Workshop for HS Instructors
Cañada College - 8:30am to
3:30pm

September 19th & 20th
Gene Connection Bio/Tech
Workshop – Cañada College -
8:30am to 3:30pm

October 3rd
Gene Connection Bio/Tech
Workshop – Cañada College -
8:30am to 3:30pm
www.geneconnection.org

Lab Tech - Industry Employment

Manufacturing Includes	Num	%
Basic Chemical Manufacturing	6,970	20.1
Polymers and Coatings	6,950	20.1
Pharmaceutical Manufacturing	5,990	17.3
Inorganic Materials	4,770	3.8
Other Chemical Products	3,260	9.4
Personal and Household Care	2,880	8.3
Food and Agricultural Chemicals	2,020	5.8
Petroleum and Coal Products	1,780	5.1

*Information provided by ACS Ed Division

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Volunteer Industry Partners Needed

We are seeking to establish valuable industry alliances to assist us with the development of an Applied Associate in Science in Chemical Technology degree and a Chemistry Laboratory Technician Certificate a key object of our grant. Volunteers will be asked to assist with: 1) identifying crucial curriculum topics and hands-on exercises to assure that graduates of these programs are well trained on industry relevant instrumentation and can perform a quality job, 2) expanding student access to career opportunities in chemistry and chemistry-related fields, 3) identifying potential internships and on-site training opportunities for students, 4) building long lasting and beneficial alliances among the local industry, four year colleges, high schools, government officials and Cañada College. For additional information contact Dr. Jeanette Medina, Project Director at (650)306-3255 or (650) 306-3304, by email at Canada.NSFGrant@smccd.edu.

Current Events

Biology/Chemistry Workshops Draw 90 Educators Made possible by a National Science Foundation Grant



Approximately 90 San Mateo County high school educators attended the first biology/chemistry workshop of the year on September 6th, hosted by Gene:Connection and Cañada College. The featured speaker was Dr. David Gilchrist of UC Davis who discussed "*Biotechnology: fathoming science, society, and reality.*" High school chemistry and biology educators from around the county shared their favorite lessons with colleagues, engaged in networking, and participated in afternoon workshops. The event was made possible in part by the National Science Foundation grant obtained by the Cañada College Chemistry department and Gene: Connection last year.

Upcoming Events

San Mateo County Forensic Crime Lab Student Tour

Tuesday, October 7, 2008

American Chemical Society-Santa Clara Valley Section-Monthly Meeting Hosted by Cañada College 7:00pm

Thursday, October 16, 2008

First Annual NSF Advisory Board Meeting at Cañada College Cañada College Campus

Tuesday, October 21, 2008

Guest Speaker: Howard Peters
"Chocolate - Food of the Gods"
Wednesday, October 22, 2008

Chemistry Career Panel - Co-sponsored by MESA
Thursday, October 23, 2008

Chemistry Outreach Booth: Sequoia Station
Saturday, October 25, 2008
Co-sponsored by Cañada Recruiting Department

Environmental Health Services Dept.
San Mateo County-Mobile Unit – at Cañada College
Guest Speaker – William Lent Lab Director
Thursday, November 6, 2008