251ST AMERICAN CHEMICAL SOCIETY
NATIONAL MEETING & EXPOSITION

Spring 2016 National Meeting in San Diego
San Diego Convention Center
111 W Harbor Drive
March 13-17, 2016
Theme: Computers in Chemistry

http://www.acs.org/content/acs/en/meetings/spring-2016.html?cid=home_meetings
Dear ACS Members,

As we head towards the first day of spring, the local events calendar becomes packed with exciting meetings and activities.

We have already held our first two monthly speaker meetings of 2016. Marco Biamonte of Drug Discovery for Tropical Diseases and Steven J. Oldenburg of nanoComposix gave fascinating presentations in January on some of the advances in the use of nanoparticles and their application to the fields of defense, dermatology and diagnostics. In February, Carol Gallagher discussed key lessons learned as President and CEO at Calistoga Pharmaceuticals during the discovery and development of the first-in-class cancer therapeutic, ZYDELIG (idelalisib).

Going forward the San Diego Section is participating in some upcoming events that you won’t want to miss!

We will be hosting an educational booth at the San Diego Festival of Science & Engineering EXPO Day at PETCO Park on Saturday, March 5, 2016. Come and say hello if you are attending.

At the ACS Spring National Meeting & Exposition being held here in San Diego, March 13-17, 2016, you will find us in the lobby by registration.

Members of our own Executive Committee will be working as judges at The Greater San Diego Science and Engineering Fair at Balboa Park on Wednesday, March 16th.

Finally, during the month of April the San Diego Section will be celebrating our 75th Birthday. We were founded on April 7th, 1941, and in celebration we are organizing a one-day symposium at SDSU. Further details to be announced shortly. Keep an eye out for them!

Our next Executive Committee Meeting will take place on Tuesday, March 1st. As always, all members who wish to become more involved are invited to attend. We can never have too many idea generators and event organizers donating their time.

Cheers,

Graeme Freestone
2016 Chair
American Chemical Society – San Diego Section
E-mail: gfreestone@sandiegoacs.org
Web: www.sandiegoacs.org

FREE EVENT ANNOUNCEMENTS FOR NON-PROFIT ORGANIZATIONS!

Does your non-profit organization have an upcoming event that might be of interest to members of the ACS – San Diego Section? If so, please send your announcement to our 2016 Chair, Graeme Freestone, at gfreestone@sandiegoacs.org. Once approved, Graeme will see that your announcement is published on our website (www.sandiegoacs.org) and, if received by the 23rd of the month before the event, in The San Diego Chemist newsletter. This is a free service of the ACS – San Diego Section. Take advantage of it!

ATTENTION ADVERTISERS

Did you know that The San Diego Chemist is the only monthly e-newsletter that targets chemists and chemical engineers in San Diego and Imperial Counties? As soon as our newsletter is uploaded on www.sandiegoacs.org a separate notification is sent to the 2,400 members of the ACS-San Diego Section, each potential customer for your products and services! Quick turnaround: Ad copy submitted by the 23rd of each month will be published by the end of that month. For more information, please contact: Renate Valois, renate@sandiegoacs.org.

CHEMISTRY JUDGES NEEDED

Judging by professional societies at the 62nd Annual Greater San Diego Science & Engineering Fair will take place on Wednesday, March 16th, at 12:15 pm in Balboa Park. If anyone is able to help choose exhibits for our Section’s chemistry awards or wants more information, please contact Ken Poggenburg at jkp135@att.net or Jim Shih at jimshih@earthlink.net

THE SAN DIEGO CHEMIST, the official newsletter of the San Diego Section of the American Chemical Society, published on a monthly basis, can be viewed at http://www.sandiegoacs.org/newsletter/
All contents are published at the discretion of the Section’s Executive Committee. Events of interest to chemistry professionals in the community may be included in the events calendar as space permits and are subject to editing for brevity. Advertisements and announcements from the chemistry community are accepted at published rates. The deadline for items submitted is the 23rd of the month for publication by the end of that month.

Advertisers: Ad prices as of January 1, 2015; Size (w x h) Number of Issues & Price/Issue

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Discounts will be available for issues not shown. Please send your jpg to: Renate Valois at renate@sandiegoacs.org. Make checks payable to: American Chemical Society and mail to: Bill Szabo, Treasurer 3950 Mahaila Avenue, B-36 San Diego, CA 92122

SECTION E-MAIL LISTSERVER!

Get up-to-the-minute reminders of local events and develop dialogs with your fellow members! To subscribe to our moderated listserver:
1. Send an e-mail with SUBSCRIBE TO LISTSERVER in the subject line, and your name and e-mail in the body of the message to Ken Poggenburg at jkp135@att.net.
2. If you receive a message from the postman, reply to confirm that you wish to be added to the list, otherwise it will not take effect.
3. You will receive reminders approx. 5-7 days prior to upcoming events and messages of general interest to members.
4. To post topics for discussion, or informational items to the listserver members, send the message to sandiego-chemist-l@ucsd.edu.
5. If the moderator approves the post, it will be sent to the members.

NOTE: That is the letter “l”, not the number “one” following the word “chemist”.

Executive Committee Meeting Dates 2016

6:00 – 8:00 pm

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Meetings will be held at: 9381 Judicial Drive, Suite 160 San Diego, CA 92121
The San Diego Section of the American Chemical Society would like to thank our Corporate Sponsors. Here are a few examples of our annual outreach programs that are made possible by their generous donations:

**Mad Science** - Stage demonstrations for 4th and 5th graders which make science fun for kids! Last year the program was viewed by over 8000 students in low-income areas and from military families.

**ChemExpo** - A science event for middle and high school students held annually for the past 28 years. It features live stage demonstrations and interactive booths that teach kids about applied science. Last year over 1000 local students participated!

**EarthFair** – We participate in the world’s largest free annual environmental fair, held in Balboa Park.

### CONSIDER SPONSORSHIP OF THE ACS SAN DIEGO SECTION
The San Diego Section of the ACS is looking for organizations that are committed to advancing science and education in the greater San Diego area by providing financial support. There are several ways to get involved, and each one comes with its own benefits and privileges. For further information please contact Jonathan Lockner, Interim Chair, Fundraising Committee, at jlockner@sandiegoacs.org

### ACS SHORT COURSES IN SAN DIEGO, CA
The ACS will be holding Short Courses in San Diego, CA, **March 11 – 13, 2016**, to help you gain invaluable training in just a few days. For information, see: [http://proed.acs.org/sandiego/](http://proed.acs.org/sandiego/)

### GET INVOLVED IN STEM EDUCATION – VOLUNTEER TUTOR OR PURSUE A PATH TO TEACHING WITH ENCORPS!
The EnCorps STEM Teachers Program ([www.encorps.org](http://www.encorps.org)) provides STEM industry professionals with opportunities to tutor 1-2 hours a week in a local middle and high schools. We also offer a program to explore a career in teaching, all free to our participants. Inspire the next generation of scientists and innovators! Find out more by joining one of our monthly free EnCorps 101 webinars, RSVP: [http://encorps.org/webinar/](http://encorps.org/webinar/). APPLY NOW for consideration into our 2016 cohort: [www.encorps.org/apply](http://www.encorps.org/apply)

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<th>Interview Date</th>
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### I WANT TO BE A CHEMIST; CAN YOU HELP ME?
e3 Civic High is looking for a few chemists who are willing to share their expertise with our students. A four-hour commitment is all it takes. A student will observe you in your workplace while you perform your normal activities and answer questions. Job Shadows will take place on **March 11, 2016**, from either **8:00, 8:30 or 9:00 am to 12:30 pm**. For more information contact: Melissa Woods, Internship Workforce Development Coordinator, at [woods@e3civichigh.com](mailto:woods@e3civichigh.com) or (619)546-0000 ext. 2714 or option 8.

### THE 213TH MEETING OF THE TWO-YEAR COLLEGE CHEMISTRY CONSORTIUM (2YC3)
We invite you to attend the 213th 2YC3 meeting on **March 11-12, 2016**. The conference will take place at San Diego City College, located on 1313 Park Blvd, San Diego, CA 92101. We currently are looking for colleagues who would like to contribute to our program by giving a presentation, leading a workshop, or participating in a panel discussion. We especially encourage topics related to our theme, "Teaching Chemistry Through Its Social Impacts". If you would like to present on a different topic, please do not hesitate to submit an abstract, as we encourage as diverse a program as possible. The due date for submitting abstracts (via email to the Program Co-Chairs) was **February 15, 2016**. For more information, see [http://www.sdcity.edu/2yc3](http://www.sdcity.edu/2yc3)

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<th>Program Co-Chairs</th>
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<tr>
<td>Nancy Crispin: <a href="mailto:nrcrispen@sdccd.edu">nrcrispen@sdccd.edu</a></td>
<td>Robert Kojima: <a href="mailto:rkojima@sdccd.edu">rkojima@sdccd.edu</a></td>
<td>Shane Haggard: <a href="mailto:mhaggard@sdccd.edu">mhaggard@sdccd.edu</a></td>
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<td>Joann Um: <a href="mailto:jum@swccd.edu">jum@swccd.edu</a></td>
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<td>Haim Weizman: <a href="mailto:hweizman@ucsd.edu">hweizman@ucsd.edu</a></td>
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### NATIONAL CHEMISTRY OLYMPIAD
The Education Committee of the San Diego Section of the American Chemical Society (ACS) is pleased to announce that we will be participating in the 2016 U.S. National Chemistry Olympiad (USNCO). The primary goals of this program are to stimulate interest and achievement in chemistry among high school students across the United States and to provide recognition of outstanding young chemistry students, teachers, and schools.

A preliminary screening of students through the administration of a standardized ACS examination will be held on **Saturday, March 19, 2016**, at 9 am and repeated on **Sunday, March 20, 2016**, at 9 am at the University of San Diego in The Shiley Center for Science and Technology – Rooms 129, 130 and 133. The exam lasts approximately 2 hours. Please send students with a pencil and calculator (nonprogrammable only).

We need volunteers to proctor these ACS examinations. Please contact Joan Schellinger at jschellinger@sandiego.edu if you are interested.

Mailings have gone out to chemistry teachers in all San Diego County high schools. If your child is interested in participating, please have them contact their chemistry teacher to express their interest in registering for the Olympiad. For more information please e-mail Joan Schellinger at jschellinger@sandiego.edu.

### WE ARE CELEBRATING AN ANNIVERSARY! – COME JOIN US
The San Diego Section of the American Chemical Society was founded at SDSU in April 1941. We are in the process of planning a full day, free symposium to celebrate our 75th anniversary at SDSU on Wednesday, April 6. Plans are being formulated to host 6 prominent San Diego scientist speakers and a lunchtime student poster session. Watch for details in the month of March.
NOMINATIONS OPEN FOR THE HELLEN M. FREE AWARD FOR PUBLIC OUTREACH

Taxes aren't the only thing due on April 15—that's also the deadline date for nominations for the 2016 Helen M. Free Award for Public Outreach. The award recognizes outstanding achievements in the field of public outreach by an ACS member who improves public recognition and appreciation for the contributions of chemistry. Winners receive a crystal award and a $1,000 prize. Nominations must be submitted using the online nomination form; visit the Helen M. Free Award for Public Outreach website for complete details and eligibility requirements.

SUMMARY OF THE SAN DIEGO SECTION
EXECUTIVE COMMITTEE MEETING MINUTES
FEBRUARY 4, 2016

Treasurer's Report - Income YTD $17 (interest on savings), $2,100 in receivables, primarily Chememployment & ads for Newsletter; YTD there is $1,600 budget deficit, $21,000 liquid assets, expecting ~$19K allotment from National; SDCCU CD about to mature, finance committee to meet and formulate a plan to reinvest this amount; Vanguard fund down $6,400 in unrealized loss in 12 months but it is doing better than the stock market; financial portion of annual report has been submitted

January Monthly Seminar – Two speakers Marco Biamonte and Steven Oldenburg on nano-technology, 100 attendees

February Monthly Seminar – Carol Gallagher, Partner at New Enterprise Associates; Thurs. 2/18, at Sanford Consortium; there will be charges for room use and parking

Leadership Institute – Good opportunity to meet ACS National leaders; emphasis on collaboration with neighboring sections -- leaders from SoCal sections met to discuss ideas

75th Section Anniversary – SDSU requesting to move meeting to 4/6

Mad Science – Two shows so far; price staying the same

Seniors Breakfast – Coco's closed, meeting at Marie Callender's cancelled by inclement weather; next meeting at Denny's in Clairemont Mesa

San Diego Festival of Science & Engineering – Mar. 5; received notification of prime booth location behind home plate (near Vertex and Coast Keepers); plan to reproduce last year's "Compounds of Interest" such as hydrogen peroxide in glow sticks, the aroma of baked bread

Greater SD Science and Engineering Fair – Mar. 16; judging starts 1 p.m.; time for judging conflicts with ACS Council Meeting so will need extra judging help

National ACS Meeting – San Diego Section as host needs to staff a booth near registration area to assist conference attendees to find their way around San Diego for food and sites of interest; needing volunteers; booth should include ChemLuminary poster, add QR code linked to Section Website

Action: Ben Pratt to make surfboard key ring with QR code to Section info on the Web

Earth Fair – April 17, need to make deposit before participating

Project SEED – Motion: Split funding equally between USD and TSRI - Approved

IPG – Professor Iovine (USD) wanting to submit grant but missed January deadline; intent to host 1-day symposium on materials science

San Diego App & Section Website – Ken Ajayi moved to Chicago and Michael Coste in school so no progress

West Coast Analytical Symposium – Sept 14, Nobel Laureate Kurt Wüthrich, recruiting additional sponsor booths

YCC – Graeme Freestone suggesting brewery or wine talk and presentation on manufacturing desalination membranes

Western Regional Meeting – Lee Latimer pushing for San Diego Section to host a WRM but no one in the Section has volunteered to take on chair position

Open Executive Committee Positions – WCC Chair, Alt Councilor, Professional Development Chair vacant

ACS Fellow Nominations – Selection criteria: service to ACS and contribution to the discipline

Action: John S. draft potential submission

Next meeting: March 1
The San Diego Section of the American Chemical Society is looking for volunteers to organize an ACS Western Regional Meeting. Exact dates are flexible and yet to be determined, but it will be held between 2018 and 2020. We are currently looking to fill the positions of General Meeting Chair and Program Chair(s). If you are organized, work well with others and want to expand your professional network to a national scale, you may be a great fit for either of these positions. The General Meeting Chair will be responsible for overseeing the planning of the meeting venue and logistics while the Program Chair(s) will fill events and speaker lists. Location, duration and desired attendance are based on the vision of the organizers. If you have an idea for a large meeting held here in San Diego, this is your way to make it happen.

For more information please contact:
Graeme Freestone, 2016 Chair
San Diego Section of the American Chemical Society
gfreestone@sandiegoacs.org

ORGANIZERS NEEDED!

HELP INSPIRE LOCAL HIGH SCHOOL STUDENTS TO PURSUE A CAREER IN CHEMISTRY!

Do you enjoy talking about how much you love chemistry? Would you like to help local high school students understand how they can have a successful career in science? High Tech High Chula Vista’s 10th grade chemistry teachers, Kaitlin Douglass and Dalya Almansour, are looking for professionals who utilize chemistry in their careers to speak to our students about possible career paths that they might take. HTHCV is a project based learning school that is part of the large High Tech High charter school system in San Diego. Many of our students will be first generation college students and will be minorities within the science and engineering workplaces. We want to show them how exciting and rewarding careers in science can be and engage them early on in discussions about their future career plans. We would only need a time commitment of approximately one hour. It would be great to hear about your education history, why you chose to pursue a career involving chemistry, the rewards and challenges of your career path and why students should consider your career in the future. Please contact us at kdouglass@hightechhigh.org or damansour@hightechhigh.org if you are interested in helping us!

Volunteers are needed in the following areas:

- Computer programming
- Scientific experiments
- Elementary & middle school math
- Robotics competition preparation

If you are interested please contact Kemi Akinlabi at olakemi.akinlabi@hp.com

SHARE SCIENCE AS A CHEMISTRY AMBASSADOR

You can help kids learn to understand and love science as a Chemistry Ambassador, and ACS is ready to help you do it. Volunteer with youth groups, summer camps, and scouts in your community - the Chemistry Ambassadors program has tips and resources to support your outreach to your neighbors or students in your area. The Chemistry Ambassadors program makes it easy to stay involved, whether you have a lot of time, or just a little. See www.acs.org/chemistryambassadors for more details.

VOLUNTEER WITH KIDS & CHEMISTRY

Kids & Chemistry is a community-based program that brings together scientists and children to do hands-on science activities. Volunteers include ACS members, ACS Student Chapters, and corporate groups. Volunteer efforts can be implemented as a full program administered by an ACS local section or by an individual as a one-time classroom visit. For more information please see http://www.acs.org/content/acs/en/education/outreach/kidschemistry.html

Volunteer efforts can be implemented as a full program administered by an ACS local section or by an individual as a one-time classroom visit. For more information please see http://www.acs.org/content/acs/en/education/outreach/kidschemistry.html
On Tuesday, January 26\textsuperscript{th}, in the Keck Auditorium at The Scripps Research Institute, we hosted talks by two founders of two different companies that were using nanoparticles in novel ways to improve diverse aspects of everyday life. This fascinating subject had the packed auditorium enthralled with the subject matter and the questions and discussions lasted way past our allotted finish time.

First up was Dr. Steven Oldenburg of nanoComposix and his talk was on novel nanoparticles and some of their industrial applications. These ranged from acne treatment and wound dressing to anti-missile defense technology for helicopters. So when his company’s R&D activities were compared to Q’s lab in James Bond, it didn’t seem that far fetched. nanoComposix has been ranked by the Department of Defense as one of the top 10\% small companies in terms of commercialization success and everyone who was in attendance now understands why.

After that tough act to follow was an inspiring presentation by Dr. Marco Biamonte from the non-profit venture Drugs & Diagnostics for Tropical Diseases (DDTD), whose mission is to discover new treatments and diagnostics for neglected tropical diseases. These diseases have been typically neglected from research and development efforts due to the perceived lack of profitability. His talk focused on a device being developed at DDTD to detect parasitic worms. The device uses nanoparticles in a "lateral flow assay", which is the same format as the home pregnancy test. Further he discussed his hopes for its widespread application in fighting debilitating and lethal diseases in the third world.
On February 18th, Carol Gallagher, Pharm.D., from New Enterprise Associates (NEA) spoke to approximately 100 attendees at the ACS San Diego February Monthly Meeting. The event was hosted in the Duane J. Roth Auditorium at the Sanford Consortium for Regenerative Medicine. Guests enjoyed appetizers from Bella Vista Social Club and Café at the social hour of networking followed by a talk by Dr. Gallagher, partner at NEA. In her presentation, she told the story of the discovery and development of ZYDELIG (idelalisib) which was invented in the PI3K delta program at ICOS Pharmaceuticals and later evaluated for B cell malignancies at Calistoga Pharmaceuticals. Dr. Gallagher, together with an experienced team, helped to advance a first-in-class PI3K inhibitor idelalisib through definitive, proof-of-concept studies in patients with certain lymphomas and leukemias. During her tenure as CEO at Calistoga, Dr. Gallagher raised $80 million in venture financing. Demonstration of the clinical benefit of Zydelig in patients with chronic lymphotic leukemia (CLL), small lymphotic leukemia (SLL), mantle cell lymphoma, and indolent non-Hodgkins lymphoma led to the acquisition of Calistoga by Gilead Sciences in April 2011 for a total consideration of $600 million. Zydelig has since been approved. In July 2014, the FDA and EMA granted idelalisib approval to treat different types of leukemia. Dr. Gallagher shared her experience in drug development and strategic planning, and emphasized the importance of clinical trial protocol design that can make a big difference in the advancement of drugs.
Research Opportunities for Future Energy Technologies

Sunday, March 13, 2016 • 1:30 pm – 5:10 pm
San Diego Convention Center, Room 4 • (Upper Level)

Sponsored by ACS Division of Energy & Fuels (ENFL), ACS Publications Division, Chemical Abstracts Service (CAS) & ACS Immediate Past President Diane Grob Schmidt

Michelle Buchanan, Symposium Co-organizer and Presider
Oak Ridge National Laboratory

1:30 pm – 1:40 pm Introductory Remarks

1:40 pm – 2:10 pm The Honorable Franklin (Lynn) M. Orr
Under Secretary for Science and Energy
U.S. Department of Energy
The Quadrennial Technology Review: Creating a Clean Energy Future

2:10 pm – 2:40 pm Donald J. DePaolo
Lawrence Berkeley National Laboratory
Basic Research for Carbon Capture and Storage

2:40 pm – 3:10 pm Krishan L. Luthra
General Electric
Structural Materials Needs for Energy Technologies

3:10 pm – 3:40 pm Jeremy T. Busby
Oak Ridge National Laboratory
Modern Materials and Chemical Science: Enabling Nuclear Power into the Future

3:40 pm – 4:10 pm Peter D. Olmsted
Georgetown University
Basic Science Challenges in Additive Manufacturing

4:10 pm – 4:40 pm Tom F. Jaramillo
Stanford University
Hydrogen Generation and Fuel Cells: Current Status, Research Challenges, and Future Prospects

4:40 pm – 5:10 pm George W. Crabtree
Argonne National Laboratory
Energy Storage for Transportation and the Electricity Grid: Challenges and Opportunities

Closing Remarks
Family Picnic
Free Food, Games & Fun for Families, Friends & Fido!

DATE: Sunday, June 26, 2016
WHERE: Picnic Area #3, San Dieguito County Park, Solana Beach, at Lomas Santa Fe Drive and El Camino Real. Pay parking fee ($3.00/car, free for seniors). At booth, proceed to Picnic Area #3 Parking.
Note: Due to the San Diego County Fair there may be heavy traffic on I-5 near the Lomas SantaFe exit. Please allow extra driving time!
TIME: 11:30 AM - 4:00 PM (food served from approx. noon to 3 PM)
WHO: Youngsters, seniors, in-betweensters, guys, gals, chemists, recovering chemists, guests and other friends of the ACS!
WHAT: BBQ, cold drinks, games and prizes for children of all ages. Please bring a homemade dessert to enter the Best Dessert Contest. Prizes will be awarded! If you bring a cold dessert, bring a cooler. Guests with special dietary needs should provide for them.
RSVP: As soon as possible but no later than Wednesday, June 22\textsuperscript{nd}, by registering at http://sdacs2016picnic.eventbrite.com/. Please tell us how many adults and how many children (with their ages) will be in your party, as well as total number of vegetarians.

- **Younger Chemists:** Schmooze and network! Invite your friends! Make it WORK for you!
- **Women Chemists:** Meet and greet! Make this event a ”Meeting Within a Meeting”! Share your ideas!

*Please contact Jim Shih to sign up:*

*tel. 626-826-3561; e-mail: jimshih@earthlink.net*
POSITION TITLE
Consultant – Organic Chemist

JOB DESCRIPTION
We are seeking a seasoned and well-rounded organic chemist to consult on various current and new projects and products. The qualified candidate will have broad knowledge of bench chemistry, analytical chemistry and manufacturing scale-up. The candidate will work closely with company management and third party manufacturing and analytical partners.

QUALIFICATIONS AND DUTIES
• PhD in Organic Chemistry with 10+ years in the specialty chemical industry preferred.
• Strong knowledge of organic chemistry research and development
• Experience in manufacturing scale-up from bench to commercialization
• Able to provide technical service to solve manufacturing problems, questions or concerns
• Ensures CrossChem manufacturing principles and methods (where applicable) are implemented and monitored with third-party manufacturing partners
• Ensures CrossChem analytical methods (where applicable) are implemented and monitored with third-party manufacturing partners and independent analytical laboratories

DESCRIPTION OF COMPANY
CrossChem is a Carlsbad California-based specialty chemical company based on a third-party manufacturing model. We launched in 2001 as a spin-off of Rohm and Haas Company by R+H technical and commercial managers. Our products are produced in the USA and China with sales globally.

APPLICATION INSTRUCTIONS
Qualified and interested candidates should send CV/Résumé to careers@crosschem.net

ACS PUBLICATIONS LAUNCHES MOBILE-OPTIMIZED WEB PLATFORM
ACS Publications has introduced ACS2Go, pubs.acs.org/acs2go, a new, mobile-optimized website that enriches the reading and browsing experience for readers of ACS content. Mobile pairing technology provides authorized users from subscribing institutions with on-the-go access to the entire content of the ACS Publications web platform. That includes more than 1 million scientific journal articles, the full collection of ACS eBooks, C&EN Archives, and the ACS Style Guide, all via a mobile-optimized interface. ACS members can also access their personal subscriptions on this platform.
ACS2Go can be accessed at pubs.acs.org on a tablet or smartphone. Please see for more information: pubs.acs.org/acs2go.

ACS INDUSTRY VOICES
ACS Industry Member Programs brings you the ACS Industry Voices blog, with weekly posts that share stories, lessons, advice, and general musings from around the chemical technology field.

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A scientific truth does not triumph by convincing its opponents and making them see the light, but rather because its opponents eventually die and a new generation grows up that is familiar with it.
~ Max Planck
VEGETABLE DYES — THEY ARE HARD TO "BEET"!

An area in the chemistry of art is the dyeing of fabrics. The chemicals in dyes that give them their color are called pigments. These chemicals and the chemicals in the fabric have to work together so that the dye molecules will connect to the cloth molecules, to color the cloth. If the dye and the cloth molecules work well together, the dye will not come out (run) even when the cloth is washed!

You will need

- Safety glasses
- Newspaper
- Paper towels
- White unlined paper
- White 100% cotton cloth
- White cotton/synthetic cloth
- Raw carrot
- Raw beet
- Raw red cabbage
- Grater
- Three small plates
- Blunt-end scissors
- 3 zip-closing plastic bags
- 6 plastic cups
- Warm water
- Laundry detergent

1. Put on old clothes or a smock that is okay to get stained. Cover your work area with newspaper. Ask your adult partner to grate about 1/8 cup of carrot, beet, and red cabbage onto separate plates.

2. Place each of the three vegetables into its own plastic bag. Add about 1/4 cup of warm water to each bag and close tightly.

3. You and your adult partner should now press the vegetable and water inside the bag with your hand for two or three minutes, until a lot of the pigment from the vegetables has colored the water.

4. Open one corner of each bag and pour the colored water into three separate cups.

5. Use your scissors to cut the 100% cotton cloth, the paper, and the cotton/synthetic cloth into three strips each, about 3 cm wide and about 15 cm long.

6. Place one strip of each material into each vegetable dye. Let the materials stay in the dye overnight. The next day, take them all out and place them on paper towels to dry.

7. Which dye seemed to work best with which material?

8. Let's see how well the dye molecules will stay on the material when it is washed. Fill three separate cups halfway with warm water. Put the three dyed materials in each of the three cups. Ask your adult partner to help you move them up and down for one or two minutes.

9. Did any of the pigment run? Which pigment stuck best to its material? Which one got washed away the most easily? Have your adult partner put some laundry detergent in the cups. Move the materials up and down. Which dyes were able to stay on which materials when washed in soapy water?

UPCOMING EVENTS

SAN DIEGO FESTIVAL OF SCIENCE & ENGINEERING
https://www.lovestemsd.org/
FESTIVAL WEEK: March 5-13, 2016
EXPO DAY at PETCO Park: Saturday, March 5, 2016

251st ACS SPRING NATIONAL MEETING & EXPOSITION
San Diego, California
March 13-17, 2016

THE 62nd ANNUAL GREATER SAN DIEGO SCIENCE AND ENGINEERING FAIR
Balboa Park Activity Center (2145 Park Blvd.)
For information please see http://www.gsdsef.org/
March 15 - 20, 2016

75th SAN DIEGO ACS ANNIVERSARY
San Diego State University
Department of Chemistry and Biochemistry
5500 Campanile Drive, San Diego, CA 92182
Wednesday, April 6, 2016

SENIORS/RETIREES/CONSULTANTS/ETC. BREAKFAST
Denny’s
4280 Clairemont Mesa Blvd, San Diego
Thursday, April 14, 2016, at 9:30 AM

EARTH DAY - EARTHAIR 2016
Balboa Park, San Diego, CA
http://www.earthdayweb.org
Sunday, April 17, 2016

SUMMER PICNIC
San Dieguito County Park, Solana Beach
Sunday, June 26, 2016

19TH ANNUAL SAN DIEGO MEDCHEM SYMPOSIUM
Price Center Theater at UCSD
Friday, July 15, 2016

252nd ACS FALL NATIONAL MEETING & EXPOSITION
Philadelphia, Pennsylvania
August 21-25, 2016

SECOND ANNUAL ACS-WEST COAST ANALYTICAL CHEMISTRY SYMPOSIUM
Dart NeuroScience, 12278 Scripps Summit Drive, San Diego, CA 92131
Wednesday, September 14, 2016, from 9:00 am – 5:00 pm

HOLIDAY PARTY
The Butcher Shop
5255 Kearny Villa Road, San Diego, CA 92123
Thursday, December 1, 2016

THE SAN DIEGO SECTION OF THE AMERICAN CHEMICAL SOCIETY WELCOMES ITS NEW MEMBERS

Gregory Anderson
Stacy Anselmo
Alejandra Arroyave
Tyler Baguley
Angela Blum
Allen Borchardt
Elise Bouffard
Robert Bouteille
Patrick Brklycia
Ching-Lin Chan
Teng-Hao Chen
Jiaxang Chu
Richard Cochran
Guillaume Collet
James Collins
Rishad Dalal
Ghazwan Darzi
Matthew Del Bel
Stanley Diniz
Anders Eliasen
R Bryn Fenwick
Sam Fleischmann
Beatris Flores
Alexandra Foucault-Collet
Erica Fung
Jemma Gibbard
Mike Gibney
Jason Green
Max Hansmann
Ran He
Shu He
Francisco Hidalgo
Danielle Hoggan
Christopher Hondonos
Dana Honeycutt
Peng-Hao Huo
Bin Huang
Bradley Kearney
Madison Kennedy
Taeho Kim
Brian Laforiteza
Joo Hee Lee
Sangeun Lee
Suhua Li
Leslie Lien
Charles Lin
Robert Malmstrom
Vincent Martin
Dan Mermelstein
Daisy Monsivais
Varnavas Mouchlis
Cynthia Nairbis
Andre Nguyen
Andrew Nguyen
Steven Og
Jason Olejniczak
Morgane Papineau
William Pistol
Valentin Poiset
Tyler Porter
Prabhu Raman
Marc Riera Rimbau
Jonathan Rittle
Alexander Rovira
Mitchell Santander
Jon Sauer
Jamie Schiffer
Lindsay Semmler
Amber Sense
Peyton Shieh
Glen Spraggon
Han Steger
Alexandra Stabell
Fumitaka Sugiyama
Camille Sultana
Yuta Suzuki
Bryan Tamashiro
Katrina Tjhung
Tsung-I Tsai
Andrew Vaino
Hua Wang
James Wang
Jocelyn Wang
Le Wang
Karina Wiener
Shara Williams
Jennifer Woodruff
Shannon Woodruff
Haokang Wu
Yijuan Xie
Qinyi Yan
Jian Yang
Longhua Yang
Xiao Yu
Ted Zee
Almagul Zhanaidarova
Tianjian Zhang
Xiaoping Zhang
Jingjing Zhao
Qinheng Zheng

THE SAN DIEGO SECTION OF THE AMERICAN CHEMICAL SOCIETY WELCOMES ITS NEW MEMBERS
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Chair-Elect Jonathan Lockner, Calibr, jlockner@sandiegoacs.org (2016) 858-688-8143
Past-Chair Ben Pratt, Akarna Therapeutics, bpratt@sandiegoacs.org (2016) 858-945-7893
Secretary William Tolley, Seacoast Science, Inc., b_tolley@juno.com (2016) 858-780-0978
Treasurer Bill Szabo, bszabo@sandiegoacs.org (2016) 858-550-0306

Councilors
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- Desiree Grubisha, CSUSM (2018) 858-254-5497
- John Palmer, UCSD (2017) 858-534-5906
- Ken Poggenburg (2016) 760-635-2573

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- Surya K. De, Sanford-Burnham Medical Research Institute (2016) 858-337-4961
- Julann Miller, Waters Corporation (2017) 800-252-4752 x6802
- John Schindler (2016) 858-353-3943
- Jim Shih, Eli Lilly & Co (2017) 626-826-3561

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- Women Chemists Committee

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