

The Chemical Bulletin

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SEPTEMBER • 2010

CHICAGO SECTION AMERICAN CHEMICAL SOCIETY

Jointly with the Chemistry Department of
Loyola University and the Chicago Chemists' Club

Education Night
FRIDAY, SEPTEMBER 24, 2010

Loyola University
6525 North Sheridan Road
Chemistry Department/Flanner Hall
Chicago, IL
(773) 274-3000

AWARDS PRESENTATION 7:30 P.M.
Winners of the High School Scholarship Examination

LECTURE 7:45 P.M.

DIRECTIONS TO THE MEETING (Continued on Page 2)

Flanner Hall is located at 1068 West Sheridan Road on the Lake Shore campus of Loyola University, near the intersection of West Sheridan Road and Winthrop.

REGISTRATION 4:30 - 6:30 P.M.
Flanner Hall lobby

SOCIAL HOUR 4:30 - 5:30 P.M.
Flanner Hall lobby

POSTER SESSION 4:30 - 5:30 P.M.
Loyola chemistry student research
Flanner Hall lobby

JOB CLUB 5:00 - 6:00 P.M.

DINNER 5:00 - 6:30 P.M.
Simpson Living Center

An excellent dinner will be in the nearby Simpson Living Center and is **served cafeteria style**. The cafeteria provides a large variety of items on an all-you-can-
(continued on page 2)



Professor Vicki Colvin, Department of Chemistry, Rice University

Title: "Nanotechnology in the Environment: Safety by Design"

Abstract: Nanotechnology-enabled systems offer much promise for solving difficult environmental problems ranging from water purification to waste remediation. These solutions must not only be cost-effective and sustainable, but they

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must also be safe for people and the environment. Our emerging understanding of the interface between nanomaterials and biological systems gives us the critical ability to approach the latter issue early in the development of nanotechnology. This talk will discuss in some detail how the chemical and physical properties of engineered nanomaterials impact their biological effects in model systems.

Three case studies, ranging from fullerenes to metal oxides, illustrate the vast diversity of nanomaterial features and biological response. The composition of a nanomaterial is the primary factor in describing acute biological effects, and among the different examples nanoparticle charge and surface coating can be of equal importance. Interestingly, the size of the inorganic material itself in these three examples, such an important feature for applications development, is secondary in defining the materials' acute biological effect. In all cases, the biological and environmental compartments experienced by nanomaterials lead to substantial modification of their hydrodynamic size and charge. The bio-modified material that results is the central element to understand and characterize in order to detect the underlying correlations between the inorganic nanomaterial phase, composition and size with biological outcomes. These correlations form the basis for guidelines that permit researchers creating new nanoparticles to focus their energy on materials that are 'safe by design'.

Biography: Dr. Vicki Colvin received her Bachelor's degree in chemistry and physics from Stanford University in 1988, and in 1994 obtained her Ph.D. in chemistry from the University of California, Berkeley. During her time at the University of California, Berkeley, Colvin was awarded the American Chemical Society's Victor K. LaMer Award for her work in colloid and surface chemistry. Colvin completed her postdoctoral work at AT&T Bell Labs.

In 1996, she was recruited by Rice University to expand its nano-technology program. Currently she serves as Kenneth S. Pitzer-Schlumberger Professor of Chemistry and Professor of Chemical & Bio-molecular Engineering. She also serves as Co-Director of Richard E. Smalley Institute for Nanoscale Science and Technology and Director of the Center for Biological and Environmental Nanotechnology (CBEN). CBEN was one of the nation's first Nanoscience and Engineering Centers funded by the National Science Foundation. One of CBEN's primary areas of interest is the application of nanotechnology to the environment.

She has received numerous accolades for her teaching abilities, including Phi Beta Kappa's Teaching Prize for 1998-1999 and the Camille Dreyfus Teacher Scholar Award in 2002. She was named one of *Discover* magazine's "Top 20 Scientists to Watch" and received an Alfred P. Sloan Fellowship in 2002. Her research in low-field magnetic separation of nanocrystals was named Top Five (no. 2 of 5) Nanotech Breakthroughs of 2006 by *Forbes/Wolfe Nanotech Report*, and resulted in her being named 2007 Best & Brightest Honoree by *Esquire* magazine; she was also named a Fellow in the Association for the Advancement of Science (AAAS), 2007-2008.

Dr. Colvin is also a frequent contributor to *Science*, *Advanced Materials*, *Physical Review Letters* and other peer-reviewed journals, having authored/co-authored over 75 articles, and holds patents to seven inventions.

(continued from page 1)

DINNER INFORMATION

eat basis. A portion of the cafeteria will be reserved for ACS attendees. Dinner admission tickets are obtained at the ACS registration table in Flanner Hall for a flat charge of \$12.00 per person. No discounted dinners for students, retirees or unemployed.

Dinner reservations are required and should be received in the Section Office via **phone** (847-391-9091), **email** (chicagoacs@ameritech.net) or **website** (<http://chicagoacs.org>) by noon on Wednesday, September 22. PLEASE HONOR YOUR RESERVATIONS. The Section must pay for all dinner orders. No-shows will be billed.

PLEASE VOTE in the Section's election when you receive your ballot in the mail

DIRECTIONS TO MEETING

By public transportation:

Take the CTA Red Line train to the Loyola stop.

From Downtown Chicago:

Take Lake Shore Drive north to its end. Follow Sheridan Road north until it turns west at 6500 north. Follow directions below to parking.

From the West:

From O'Hare take I-294 North to the Touhy Avenue East exit (this is the very first exit after toll plaza). Proceed east on Touhy to Talcott, the first stoplight.

Turn right onto Talcott and go to Devon (first stoplight after passing high school). Turn left on Devon and continue on to Caldwell. Turn right on Caldwell (this road becomes Petersen) to Western.

Turn north on Western to Devon. Turn east on Devon and continue east to Kenmore Avenue. Turn left on Kenmore to the Loyola Campus.

See parking information below.

From North and Edens Expressway (I-94):

Take I-94 (Edens Expressway) to the Peterson Avenue East Exit. Take Peterson east to Western Avenue.

Turn left on Western (north) to Devon and go east. Continue to Kenmore Avenue. Turn left on Kenmore to the Loyola Campus.

See parking information below.

SEE ALSO DETAILED MAPS ON OUR WEBSITE

PARKING: Enter the campus at the intersection of Kenmore and Sheridan Road and bear to the left. Parking is available in the parking garage next to Flanner Hall for \$7.00. Enter the garage at the entrance marked "Faculty, Students, Guests, Visitors." When leaving the garage, first purchase an exit parking ticket at the pay station machine located near the garage stairs and elevators.

Note: Since this is Parents Weekend at Loyola, you may be able to park in the garage at a reduced rate.

"CHEM SHORTS" For Kids

The Elementary Education Committee of the Chicago Section ACS presents this column. They hope that it will reach young children and help increase their science literacy. Please print it out and pass it on to your children, grandchildren, or elementary school teachers. Teachers are encouraged to incorporate the projects in this column into their lesson plans.

Biodegradable Bioplastic

Kids, how would you like to make a corn-based plastic that is biodegradable? Grab your nearest adult partner along with these materials: 1 tablespoon cornstarch, a zip-seal bag, 1 tablespoon water, 2 drops corn oil, food coloring, and a microwave oven.

Here is what you do. Place the cornstarch in the zip-seal bag. Add the water. Seal the bag and mix the ingredients well by squishing the bag with your fingers. It should look like a smooth milky liquid. Then add 2 drops each of corn oil and food coloring, seal, and mix again. The oil helps keep the bioplastic from sticking to the bag. This order of addition is very important so follow the instructions closely.

Then your adult partner performs the next steps. They will open the zip seal just a tiny bit, put the bag in a microwave oven on a paper plate, and microwave on full power for about 20-25 seconds. The bag will be very hot (caution!) so your adult partner should wait before handling. While it is still warm, but cool enough that your adult partner says you can handle it, shape the plastic into a ball.

What's happening? Before heating, the starch and water molecules combine physically in a liquid mixture, but they do not permanently attach via chemical bonds. Heating causes the water molecules to move fast enough to penetrate and break up the cornstarch granules, which then tangle together to form polymers.

Compare the biodegradable plastic you made to the plastic zip-seal bag. To watch the plastic ball degrade, immerse it in water for a few days. Compare what happens to a piece of a zip-seal bag immersed in water for the same amount of time. Because the cornstarch polymers are weaker than commercial bioplastics, they readily break apart in water. Durable commercial bioplastics need heat, microbes, and much more time to biodegrade.

References:

C. Washam, *ACS ChemMatters*, April 2010, page 12; and
Field Guide to Utah Agriculture in the Classroom:
<http://extension.usu.edu/AITC/teachers/elementary/fieldguides.html>
(Field Guide I, "Corn Starch Plastic").

Submitted by DR. KATHLEEN CARRADO

All past "ChemShorts for Kids": <http://www.chicagoacs.net/ChmShort/kidindex.html>

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NOTICE TO ILLINOIS TEACHERS

The Chicago Section ACS is an ISBE provider for professional development units for Illinois teachers. Teachers who register for this month's meeting will have the opportunity to earn CPDU's.

FREE T-SHIRTS

The Hospitality Committee raffles one T-shirt at each monthly dinner meeting. The shirt has CHICAGO spelled out using the periodic table. So come to a monthly meeting and maybe you'll win one!

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MESSAGE FROM THE CHAIR

In August, the Chicago Section joined with the other ACS Illinois Local Sections to sponsor a booth at the Illinois State Fair in Springfield. I want to thank all of the Chicago Section members and their families who volunteered to support this activity. Special thanks go to Cherlyn Bradley and Fran Kravitz for leading this outreach project over the last several years.

I am pleased to announce that our section was named as a finalist for two of the ACS ChemLuminary Awards this year. The 2009 Great Lakes Regional Meeting, for which the Chicago Section was the host section, is a finalist for the Best Regional Meeting. The Chicago Section was also a finalist for the Outstanding Performance by a Local Section – Very Large Size Category. The winners of these awards were announced at the ChemLuminary Celebration at the Boston National Meeting. Being selected as a finalist for two awards is a great recognition of the efforts of our leaders, organizers, and volunteers.

Our 2010 elections are in progress; the Nominations Committee and the Board have put together a strong list of candidates. Take a few minutes to vote for the candidates of your choice; every vote is important.

Our September section meeting will be on **Friday, September 24**. The speaker for this meeting is Professor Vicki Colvin from Rice University. Her research interests are in the application of nanoscale materials, from 1 to 100 nm in dimension, for technology areas as diverse as medicine to aeronautics. Her presentation will be one of the highlights of our section meetings this year. Please join us for what promises to be a wonderful evening.

Remember that Chemistry Day is taking place on **Saturday, October 23**. We need volunteers for our program that day. Check the section website for details on these events and other section activities.

KEN FIVIZZANI

2010 BASOLO MEDAL TO BE AWARDED TO ROALD HOFFMAN

Northwestern University will honor **Professor Roald Hoffman**, Cornell University, with the Basolo Medal for recognition of work in inorganic chemistry. Named for Northwestern University chemistry professor Fred Basolo, the award is given by Northwestern University and cosponsored by the ACS Chicago Section. Professor Hoffman will deliver the award lecture at the Northwestern University Technological Institute in Evanston, IL on October 22.

Following the lecture at Northwestern, the Medal presentation will be given at the Chicago Section's meeting. Meeting information and additional details will be found at the section's website, www.chicagoacs.org. Reservations may be made on-line or by calling the Section's office at (847) 391-9091.

NEED TRAINING BUT CAN'T AFFORD TIME AWAY FROM THE OFFICE? TRY OUT AN ACS WEBCAST!

Few companies are immune from the economic hardships in the headlines and many budgets have been trimmed. But it is still crucial to your career to engage in continuing education to expand your skills and stay abreast of new topics.

Join the ACS Webcast mailing list at www.proed.acs.org/emailme to be the

first to hear our 2010 fall courses, try out new courses for free, and receive discounts not available to the general public! Save your time and money and take a look at the courses available online through ACS.

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There are expanded course offerings in analytical, organic, pharmacology, engineering, instrumentation, and other areas. For the full list of Webcast Short Courses and more information on available discounts, visit www.ProEd.acs.org.

CHICAGO SECTION NOMINEES FOR 2010 BALLOT

The following slate of candidates was put together by the Nominating Committee for the 2010 Section Election. New officers will take office in January 2011. Ballots have been mailed and are due in the Section office by noon on October 22. The results of the election will be announced at the October 22 dinner meeting.

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Avrom Litin
Inessa Gorelik Miller

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2010 ANNUAL SCHOLARSHIP EXAMINATION IN CHEMISTRY

SPONSOR: Chicago Section ACS High School Education Committee
HELD AT: North Central College on May 22, 2010
AWARDS: Funds are contributed by the chemical industry and by individuals. Teachers of a prize-winning student(s) receive \$100.

<u>PRIZE</u>	<u>WINNER</u>	<u>TEACHER & SCHOOL</u>
FIRST \$5,000 AWARD	Benjamin Fleischacker	Ann Levinson Chicagoland Jewish HS
SECOND \$3,000 AWARD	Carrington Watkins	Jim Glynn Glenbrook South HS
THIRD \$2,500 AWARD	Daniel Shen	Steve Wiesbrook Naperville Central HS
FOURTH \$1,500 AWARD	Naomi Michael	Ann Levinson Chicagoland Jewish HS
FIFTH \$1,250 AWARD	Eric Lullo	Dan Brown Naperville Central HS
MARIE LISHKA * \$2000 AWARD	Carrington Watkins	Jim Glynn Glenbrook South HS
MARSHALL S. SMOLER** \$200 AWARD	Philippe Chlenski	James Galinski Lincoln Park HS
BERNARD E. SCHAAR*** \$500 Chicago Chemists' Club Award	Philippe Chlenski	James Galinski Lincoln Park HS

*To the highest scoring female in the examination. This award honors Marie Lishka, who was an active Chicago Section member for many years. Additional funding for the Lishka award was provided in memory of **Stan Drigot**.

To the highest-scoring Chicago public high school student. This award was established in 1972 in memory of **Marshall S. Smoler, by his sister, Rachel. Mr. Smoler was for many years a chemistry teacher in the Chicago public schools.

*** To the highest scoring Chicago high school student. Mr. Bernard Schaar's widow established this award in memory of **Mr. Bernard Schaar**, long active in Chicago Section, American Chemical Society and the Chicago Chemist's Club.

HONORABLE MENTIONS LISTED IN ALPHABETICAL ORDER

(These students were the next highest performers)

Mark Rizko	Nazareth Academy
Kathryn Bruhns	Oak Park/River Forest
Benjamin Marks	Niles North HS
Kirthi Bellamkonda	Naperville Central HS
Gregorio Ramel	Oak Park/River Forest
Madeline Siambekos	Naperville Central HS

A total of 65 students were nominated to take the 2010 ACS Scholarship exam. Each chemistry teacher could nominate two students.

Awards will be given to students at the ACS Education Night meeting in September 2010 at Loyola University. Award winners and their teachers will be contacted by the Chicago ACS office. All teachers and students are invited and encouraged to attend the ACS Education Night meeting. Teachers who attend the ACS Education Night meeting will receive CPDU credits. Teachers do not have to be ACS members to attend. Registration information for Education night will be available in late July.

A special thank you to Dr. Paul Brandt, Chemistry Professor at North Central College, for his hard work and willingness to author the exam.

FINANCIAL CONTRIBUTORS TO THE SCHOLARSHIP EXAM ARE: ACS Chicago Section, Stan Drigot, Dr. Henry M. Walton, Chicago Chemists' Club, and Rachel Smoler.

LINDA BENNETT
HIGH SCHOOL EDUCATION COMMITTEE

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DEATH NOTICE

Dr. Arthur Weston, former active member and Trustee of the Chicago Section, passed away after a short illness June 26 at the age of 96.

Dr. Weston was born February 13, 1914 in Smiths Falls Ontario, Canada. He began his outstanding academic career as he progressed from the local collegiate institute to Queens' University in Kingston, Ontario, Canada (B.A. and M.A.). He then moved on to Northwestern University in Evanston, Illinois, obtaining his Ph.D. in organic chemistry in 1938. He was on the faculty at Northwestern until 1940 when he joined Abbott Laboratories as a senior research chemist. That year, he met and married a college student, Dawn Thompson, who remained his loving companion and the love of his life for 70 years.

In 1952, Arthur became a US citizen. He is survived by his wife, Dawn; their three children, Roger Lance (and Pam, Winnetka), Randall Kent (Lake Forest) and Cynthia Brooke (and Harvey, Montreal); their nine grandchildren; and seven great-grandchildren.

Dr. Weston had an accomplished academic and scientific career marked by extensive achievements. He was the recipient of 16 scholastic awards including the University Fellowship at Northwestern, and member of honorary societies including Phi Beta Kappa, Sigma Xi, and Phi Lambda Upsilon. Over the years he was awarded 28 U.S. patents and 175 foreign patents for chemical compounds. He was inventor or co-inventor of five pharmaceuticals which were marketed worldwide. He also authored or co-authored 35 scientific publications.

During WWII, as a member of the Manpower Commission and Committee of Medical Research, he contributed to the international effort on the development of penicillin and other important drugs. He served as an Abbott Vice President in various scientific capacities for 20 years and was a member of the Abbott Board of Directors.

SECTION DUES

Members are urged to pay the \$15 Section dues when you get your annual ACS membership dues statement. The Section needs this revenue to help support its many activities.

SEPTEMBER HISTORICAL EVENTS IN CHEMISTRY

- September 1, 1877** Francis W. Aston, who introduced the mass spectrograph in 1919, was born. He received the Nobel Prize in Chemistry (1922) for his discovery, by means of his mass spectrograph, of isotopes in a large number of non-radioactive elements and for his enunciation of the whole-number rule.
- September 3, 1938** Ryoh Noyori, researcher in asymmetric hydrogenation, was born. He received the Nobel Prize in Chemistry (2001) with William S. Knowles for their work on chirally catalysed hydrogenation reactions.
- September 5, 1869** Jacobus H. van't Hoff completed the famous 11 page treatise on the tetrahedral carbon atom, marking the birth of stereochemistry.
- September 6, 1766** John Dalton, who proposed atomic theory and discovered the law of multiple proportions, 'Dalton's law of partial pressures', was born.
- September 6, 1876** John J. R. Macleod, who discovered insulin with Frederick G. Banting & Charles H. Best and received the Nobel Prize in Physiology or Medicine (1923) with Frederick G. Banting for his discovery of insulin, was born.
- September 9, 1974** Albert Ghiorso and Glenn T. Seaborg announced the discovery of element 106 at the University of California, Berkeley.
- September 10, 1942** The weighing of a pure compound of synthetic element Pu was done by B. B. Cunningham & L. B. Werner at the wartime Metallurgical Laboratory, University of Chicago.
- September 11, 1894** Carl S. Marvel, who did research in organic chemistry and polymer synthesis, was born. He was ACS President in 1945.
- September 12, 1897** Irène Joliot-Curie, who produced artificial radioisotopes in 1933, was born. She received the Nobel Prize in Chemistry (1935) with husband, Frédéric Joliot-Curie in recognition of their synthesis of new radioactive elements.
- September 15, 1932** Neil Bartlett, who prepared the first noble gas compound, xenon hexafluoroplatinate, in 1962, was born. He also synthesized XeF₂, XeF₄, and XeF₆.
- September 16, 1970** The Great Lakes Chemical Co. was incorporated.
- September 17, 1901** Peter Cooper Hewitt obtained patent for mercury vapor lamp.
- September 21, 1832** Louis P. Cailletet, researcher on liquefaction of the gases (hydrogen, nitrogen, oxygen, and air), was born.
- September 22, 1791** Michael Faraday, who discovered electromagnetic induction, specific inductive capacity, rotation of plane-polarized light in a magnetic field and liquefied chlorine and other gases, was born.
- September 22, 1791** Michael Faraday, who discovered electromagnetic induction & specific inductive capacity, Faraday's Laws on electrolysis, and rotation of plane polarized light in a magnetic field, was born.
- September 23, 1915** John Sheehan, who synthesized penicillin-V in 1957, was born.
- September 23, 1915** Clifford Shull, who researched using neutrons to study atomic structure of materials, was born. He received the Nobel Prize in Physics (1994) for the development of the neutron diffraction technique.
- September 30, 1923** Morris Kates, a biochemist-composer, was born. He researched lipids of Archaeobacteria.
- September 30, 1939** Jean-Marie P. Lehn, researcher on 3-dimensional stacked-layer polycyclic compounds, was born. He received the Nobel Prize in Chemistry (1987) with Donald J. Cram and Charles J. Pedersen for their development and use of molecules with structure-specific interactions of high selectivity.
- September 30, 1943** Johann Disenhofer, researcher on 3-dimensional structure of proteins related to photosynthesis, was born. He received the Nobel Prize in Chemistry (1988) with Robert Huber & Hartmut Michel for the determination of the three-dimensional structure of a photosynthetic reaction center.

LEOPOLD MAY

Professor Emeritus of Chemistry
The Catholic University of America
Washington, DC

Historical events can be found at Dr. May's website, <http://faculty.cua.edu/may/Chemistrycalendar.htm> or the *This Week in Chemical History* at the ACS website: <http://www.acs.org/whatischemistry>.

UN-COMFORT ZONE

with Robert Wilson

Sometimes You Have to Rip the Cover Off the Book

On a summer weekend in 1977, my friend Tony and I made plans to go waterskiing. When he picked me up, there were two people in the car that I did not know. He introduced his new girlfriend Sue and her brother Bubba.

Bubba was the quintessential redneck. Within minutes of getting on the boat, he stuffed a wad of chewing tobacco the size of a baseball in his cheek, then chugged several beers. In less than an hour, we were dealing with an irritable drunk. He belched loudly, spit constantly, complained incessantly, and couldn't string two words together without inserting a profanity. In short, Bubba made our visit to the lake completely unpleasant. Eventually he passed out in the back of the boat and we enjoyed the rest of the day.

My opinion of Bubba's character, talent and intelligence could not have been lower. I looked upon him as a total loser -- a dimwit who would never amount to anything.

At the end of the day, Tony drove Sue and Bubba home first. When we arrived at their home, Bubba was awake and somewhat sober. Sue asked Tony to come inside and see the new dress she'd bought. Then she turned to Bubba and said, "Why don't you show Robert your chickens?"

We walked around to the back of the house and Bubba pointed toward a miniature barn. It was the cutest little building I'd ever seen—with a rounded roof, little windows, bright colors and lots of lacy gingerbread all around.

"Where'd you get this?" I asked. "I built it," replied Bubba.

"From a kit?" I asked. "No, I built it after my grandfather's barn."

For the first time that day, I was impressed by Bubba. When we went inside, the first thing I saw was a display case full of blue ribbons. There were dozens of them. These were first place awards from around the country that Bubba had won for his chickens. Then he started showing me his chickens and telling me about them. Suddenly the cussing and complaining Bubba became eloquent.

As we walked around the barn he showed me more than 50 of the most beautiful and exotic looking birds I'd ever seen. Unusual looking birds that I would never have known were chickens. These were not birds for eating or laying eggs;

these were prize show chickens.

He explained to me that chickens originated in the jungles of Asia. He told me how he bred and raised them and what he did to make their plumage bright, colorful and plentiful. I was amazed by the extent of his knowledge and I listened eagerly to everything he said. He spoke with an enthusiasm and energy that I could not have imagined earlier. The difference was that I had entered his real world. The world he loved and was excited about. Here was his hobby, but he was so motivated by it that it brought out the very best in him.

I learned a big lesson that day. I'd always heard my teachers say, "Don't judge a book by its cover," but until then I had not witnessed the truth of that proverb. I decided then and there that I would never judge another person completely by my first impression and that, if time and opportunity allowed, I would look further and deeper.

When you discover someone's passion, you have discovered what motivates them. And, that is the key to communicating with them in the most productive way possible.

--
Robert Evans Wilson, Jr. is a motivational speaker and humorist. He works with companies that want to be more competitive and with people who want to think like innovators. For more information on Robert's programs please visit www.jumpstartyourmeeting.com.

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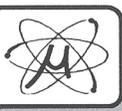
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CALENDAR

September 16: Chicago Section ACS Board meeting, 1400 Renaissance Dr., Suite 312, Park Ridge, IL 60068; 847-391-9091.

September 24: Chicago Section ACS Dinner Meeting. This is Education Night at Loyola University. **See details in this issue.**

September 29 - October 13: Science History Tour of Italy: From Como to Rome, with stops in between. For information or sign-up materials, contact ytwomey@mindspring.com or Lee Marek at Lmarek@aol.com or lmarek2@uic.edu.

October 14: Chicago Section ACS Board meeting, 1400 Renaissance Dr., Suite 312, Park Ridge, IL 60068; 847-391-9091.

October 22: Basolo Medal Award Lecture, Dinner, and Presentation; joint Chicago Section ACS's meeting with Northwestern University's Department of Chemistry. The Basolo Medal Awardee is Roald Hoffman.

October 23: Chemistry Day at Loyola University. The theme is "Behind the Scene with Chemistry".

November 3-5: The 31st Annual Conference of the Association of Laboratory Managers (ALMA) will be held at the Hilton Scottsdale Resort and Villas, Scottsdale, AZ. Registration deadline is October 1. Register online at www.labmanagers.org. Visit www.labmanagers.org for further information.

November 11: Chicago Section ACS Board meeting, 1400 Renaissance Dr., Suite 312, Park Ridge, IL 60068; 847-391-9091.

November 18: Chicago Section ACS-University of Chicago joint Dinner Meeting. This is the Stieglitz Lecture.

Behind the Scenes with Chemistry! Chemistry Day Saturday, October 23, 2010 Loyola University

Please join us!

Do you remember the first time you realized that chemistry was special? If the answer is yes, then we need your help! The ACS Chicago Section invites all local ACS members to join in the celebration of National Chemistry Week by volunteering to participate in *Chemistry Day* on Saturday, October 23, 2010, at Loyola University.

Chemistry Day is an annual, day-long event open to all students ages 10–16. It is always an exciting and popular occasion – last year, more than 750 local students attended our signature *National Chemistry Week* celebration! ACS volunteers are the vital link in this highly successful community outreach program. Featured activities for students and their parents, teachers, guardians, as well as scout and other community leaders, include magic demonstrations, wonderful hands-on chemistry lab experiments, interactive exhibits, and an inspirational Boy Scout chemistry merit badge program.

We need your help! Share your love of chemistry by meeting and greeting participants, supervising hands-on lab activities with students, sharing exhibit materials, and performing demonstrations.

The theme of *National Chemistry Week* for 2010 is "Behind the Scenes with Chemistry." Chemistry will come alive for students as we showcase the differences between what we see in television, movies, and literature and the real science behind the "magic" and mystery of special effects.

We hope you will join with your ACS friends and colleagues to continue this unforgettable tradition. Please e-mail your Community Affairs Committee co-chairs listed below to sign up now!

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JOB CLUB

The next meeting of the **Chicago Section ACS Job Club** will be held on **Friday, September 24 at 5:00 p.m. at Loyola University**. The meeting will include a review and discussion of some of the tools that a chemist can use to conduct a job search.

The Job Club provides a continuing opportunity for unemployed members of the Section to meet with one another, share their experiences and develop a network that may help in identifying employment opportunities. Bring plenty of resumes and business cards to distribute to your colleagues. Be prepared to talk about the kind of job you are seeking.

Several participants have received outsource help with resume preparation and marketing strategies to present their best attributes to prospective employers. The group has critiqued some individual resumes and made suggestions for improvements in a positive way!

The Job Club is also for employers seeking chemists. Employers need to be prepared to describe the positions to be filled and requirements for these positions.

Should you wish to attend the Section's dinner meeting following the Job Club, the cost is \$12 and you can continue your networking activities. Please call the Section office for reservations and indicate that you are eligible for a discount.

Also, the Chicago Section's website has a link to the Job Club's yahoo job forum group. If you can't attend the Job Club, you can still find out about job openings and other information.

DID YOU KNOW?

September is Baby Safety Month, an annual awareness campaign sponsored by the Juvenile Product Manufacturers Association (JPMA) to educate parents and caregivers on the importance of buying products that are JPMA certified. The JPMA Certification Program includes many ASTM International standards developed by Committee F15 on Consumer Products. There are ASTM standards for bassinets/cradles, carriages/strollers, children's folding chairs, cribs, high chairs, infant carriers and much more. For more information on this committee, visit <http://www.astm.org/COMMIT/COMMITTEE/F15.htm>