

The Syracuse Chemist

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March 2012

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Dinner Meetings: A Tradition of Chemical Fun

January and February saw exciting collaborations between the Syracuse Section of the ACS and TACNY in the form of dinner meetings. In January, the meeting was held at Onondaga Community



College, and the focus was “Biomass Applications for Energy and the Environment” presented by Chris Campbell of O’Brien and Gere Engineers, Inc. in Syracuse. The February meeting featured Anita Zannin, a forensic science expert, Adjunct Professor at Syracuse University, and owner of AZ Forensic Associates LLC, who reviewed technology developments in solving modern crimes. These meetings are exciting, informative, and a great way to get to know professionals in the area. Be sure to make room in your schedule to attend one of the upcoming events this year!

The photo features Bill Ayling, ACS local section chair; Anita Zannin; Howie Hollander, TACNY president, and Monica Johns.

Mark your calander! The next dinner meeting is on March 29th at Syracuse University (page 12 for details). *Iron Chemistry: From Food Fortificants to Metabolic Regulation*: Dennis Miller, Professor and Chair, Department of Food Science, Cornell University

A note from the Section Chair

Now more than ever before, scientists need to help lead change. Technology is advancing rapidly, but many folks remain inattentive to the profound ways that science shapes our society and the need to incorporate the constraints of our planet in our designs. In his February 6, 2012 article in Chemical & Engineering News editor Rudy Baum outlined “Humans’ Place In Nature.” If you didn’t see the article, it’s worth reading. What was striking to me was that while the mainstream media portrays the environment as only the concern of a few extreme advocates, when scientists (not just environmental scientists) communicate positions based on scientific logic it’s a powerful voice that encourages us to take a closer look. I’m convinced that public outreach is a key role for scientists to engage in now and moving ahead in the 21st Century. In the February 27, 2012 issue of Chemical & Engineering News, some of the benefits of public outreach were highlighted in a conversation with MIT Biologist Penny Chisholm. ACS has made communicating science a priority and through outreach activities the Syracuse Section is becoming a voice in our community, as well.

The Executive Committee of the Syracuse Section is excited to serve the Section in 2012. We’ve got a lot of great ideas, but need your help and we welcome new ideas, too. Of particular interest are those activities that focus on increasing our visibility in the community. We have small tasks and not so small tasks to fit anyone’s availability to contribute. If you haven’t been involved before and are hesitant, so was I two years ago. I started to become active in the Section when another ACS member invited me to help out with a Sustainability Fair in Oswego. The experience was very gratifying. As one example of the success of the Sustainability Fair, I discovered that the wind energy projects that are being completed around Oswego (see the Sunday, January 1, 2012 Sunday Post-Standard:

http://www.syracuse.com/news/index.ssf/2012/01/oswego_county_farmers_turn_to/978/comments-2.html) are directly linked to introductions made at the Sustainability Fair. In August 2011, the successes of the Sustainability Fair along with the Sections signature educational events were recognized by ACS when the Section received three Chemluminary awards at the national conference in Denver. From my experience as an organizer for the Sustainability Fair, I wanted to serve ACS, the Section, and our community more. Through grants available from ACS to support local sections, I know of no other professional organization that offers more opportunities for its members to become leaders in their communities. We continually seek volunteers to help with programming for the Section throughout the year. A list of current opportunities is provided in this issue of the Chemist. Please join us and make a difference in our community.

ACS provides grants to local sections to advance science here at home. In the Syracuse Section, we are currently working on an Innovative Program Grant to develop chemistry demonstration kits for Section members to use to generate interest in science. Already in 2012, we received two separate grants from ACS to advance our public relations efforts and support our corporate members in their careers. Through the public relations grant, we are developing a Section brochure and exhibit to help us communicate the value of ACS membership. With the Corporate Associates grant we are developing plans to provide members the opportunity to hear a presentation by a career coach. Possible topics available to the Section include an overview of career coaching with a question/answer session, winning interviews, resume writing, strategic job searching, discovering your natural fit, creating your signature statement, or strategies for growth. The grant could also be used develop a dialogue with leaders on ways that science opportunities could be increased in Central New York. Learning more about the new biotechnology center due to open in Syracuse in June is just one example of possibilities in that regard. If there is interest, we could explore the possibility of bringing an ACS leadership course to our Section. Please contact me if you have specific career needs that might fit into the Corporate Associates program.

Bil Ayling, Syracuse Section Chair 2012

Get involved this spring!

There are lots of opportunities to get involved in the Section! Some of the areas open for help include:

Public Relations Chair and Assistant. The Public Relations (PR) Chair is eligible to attend a training workshop held at ACS National in Washington, DC. The PR group helps to communicate science to the public by distributing the ACS publication Discoveries to local media, and to prepare and distribute press releases to the media for ACS-Syracuse Section events.

Programming Committee. In 2012, we are striving to offer a wider range of activities for members to build on our strength in promoting chemistry education and expand our science outreach to the public. A glimpse at what's been discussed so far and opportunities to engage in the Section:

- In April, Earth Day Celebrations are being planned including adopt-a-highway, collaboration with the Otisco Lake Preservation Association, and others.
- In the fall, we are working with the New York Water Environment Association (NYWEA) on a joint meeting to discuss water chemistry related to industrial uses, treatment, and protection of water supplies. The meeting will include information related to emerging contaminants and nanotechnology.
- Government Affairs. Sound science needs to be a part of the political dialogue. Meeting with other ACS sections from across New York at the State Fair on governor's day is one possible event that has been successful in other states.
- International Dinner featuring foreign chemists in our Section to talk about their country's culture, traditions, and possibly state of chemical education in their country

Web Designer Assistant. Periodically, we need help to update the Section website.

Membership and Hospitality. Be an ambassador for the Section and meet members as they check in for events. Help to increase member awareness of opportunities available to them through ACS membership.

Photographer. Photograph Section events or compile photographs of others to selection photographs for publication in the Newsletter or on the website.

Newsletter Writers. Develop brief stories summarizing Section events and other news of interest to members.

Science Fair Judges. We need volunteers to encourage students and judge projects.

Nominations Committee. Help elect the committee for next year. First meeting will be held in March.

Women Chemists Committee. The goal of this national committee is to attract women to the sciences, assist them with career development, recognize them for their scientific achievements, and perform advocacy for them within the ACS and externally. The Syracuse Section is seeking an individual to represent the Syracuse Section on this national committee.

To assist in any of these efforts, please contact Bill Ayling, Chair (aylingwa@verizon.net).

In Memory

The Syracuse ACS community lost two longtime members recently, and the contributions of these members will be missed.

Martin Sage



Martin Lee Sage, a longtime ACS member, died suddenly Friday afternoon, February 3, 2012. He was a Professor of Chemistry at Syracuse University since 1967. After earning his undergraduate degree at Cornell University he went on to earn his master's and Ph.D. at Harvard University in Chemical Physics. His area in theoretical chemistry was high energy vibrational phenomena. He also headed a program in Science Technology and Society. Along with his work with the American Chemical Society, he served on the boards of the Iroquois Chapter of Sierra Club (a founder of the group); Outer Comstock Neighborhood Association, Syracuse Friends of Chamber Music, Syracuse Park Conservancy, and Canopy. He was also active in the Syracuse Area Middle East Dialog (SAMED); Feeder Watch, Tree Steward, Eastern Lake Ontario Dunes Coalition, Onondaga County Mycological Society.

Taken in part from the Syracuse Post-Standard

Benjamin Burtt

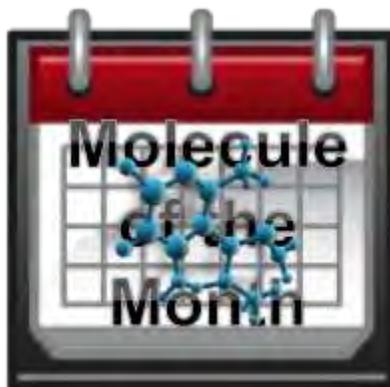


In May 2011 the Syracuse Section named the education lecture in honor of Benjamin Burtt Sr., professor emeritus of chemistry at Syracuse University. The section was proud to be able to honor someone so dedicated to science and education. For 47 years he entertained freshmen in his Syracuse University chemistry class with his legendary "Water Lecture," a volatile mixture of a lesson and comedy. His son said Burtt possessed a natural gift for teaching, which appeared in his famous semester-ending lecture about water – a performance that is still re-enacted by former students around Syracuse. In it, the straight-faced professor would oversee a series of demonstrations that go horribly wrong. Between the explosions and fires, he'd raise a beaker of water from SU's drinking fountain and speak to its clarity – as it turned colors. His groundbreaking use of technology in the classroom inspired and paved the way for future chemical educators. Benjamin P. Burtt Sr. died Feb. 23 in Columbus, Ohio. He was 91.

Reprinted in part from the obituary written by Hart Seely in the Syracuse Post-Standard

Molecule of the Month Puzzle

Daniel Barr



Solve the puzzle and submit your answers to our Quizmaster, Dr. Daniel Barr (dabarr@utica.edu) - the first person to answer correctly will get a special mention in the next issue of the Chemist!

The first letters of the following responses give the name of a chemical that is useful as a protecting group for amines and thiols. Numbers in brackets indicate the number of words in the response.

1. An addictive chemical that constitutes approximately 0.6-3% of the dry weight of tobacco. [1]
2. A hydrophobic amino acid that has a constitutional isomer which is also a hydrophobic amino acid. [1]
3. The sign of the charge on an electron. [1]
4. A reactive molecule containing only hydrogen and oxygen (it may be used as a disinfectant on an open wound). [2]
5. A village outside of Vauxholm, Sweden where a rock was discovered that contained oxides of four previously unknown elements; the names of those four elements all derive from the name of this village. [1]
6. This isotope of hydrogen is often used in kinetics studies. [1]
7. This naturally-occurring protein toxin can be extracted from the castor bean and has been used experimentally as an anti-cancer agent. [1]
8. This organic functional group test gives a yellow precipitate in the presence of methyl ketones. [1]
9. The presence of this element distinguishes pyridine and piperidine from benzene and cyclohexane, respectively. [1]

Calling all College and University Faculty -

Do you have an exceptional junior or senior who would benefit from having a membership to the American Chemical Society?

If so, please contact our Awards Chair, Alyssa Thomas, who is organizing the Student Affiliate Awards for this year. To nominate a student for the award, send an e-mail with the subject - ACS Syracuse Student Affiliate Awards to acthomas@utica.edu and include the name of the student, the institution, and the student's e-mail address. For more details or any questions, send an e-mail to the above address. Deadline for nominations this year is April 21st.

Upcoming Section Events

Want up-to-the-minute information about the section? Bookmark <http://syracusesection.sites.acs.org> to get all the latest news and events!

MARCH

March 29. US Green Building Council Conference.

Paul Anastas, Ph.D. author of “Green Chemistry” will be the Keynote speaker (<http://www.esf.edu/greenbuilding/2012/speakers.htm>). The Syracuse Section of ACS has arranged for members to attend breakfast that begins at 7:15 am and the Keynote address at 8:15 am for \$20, advance registration only. This arrangement is for the breakfast and Keynote presentation only. The cost to attend one day of the conference is \$195 (<http://www.esf.edu/greenbuilding/2012/register.htm>). To register for the breakfast and Keynote address only, send a check for the \$20 registration fee made out to “ACS-Syracuse Section” to be received by March 23, 2012 at the address below:

Bob Fleischman
5371 Vineyard Drive
Clay, New York 13041

If you have any questions, please contact Bill Ayling (aylingwa@verizon.net).

March 29. Dinner meeting at Syracuse University (see attached flier on page 12 for details).

Iron Chemistry: From Food Fortificants to Metabolic Regulation

Dennis Miller, Professor and Chair, Department of Food Science, Cornell University. Dennis Miller is Chair of the Department of Food Science and Professor of Food Chemistry and Nutrition. He holds a joint appointment in the Division of Nutritional Sciences and is a member of the graduate fields of Food Science and Technology and Nutrition. Miller holds a PhD in nutrition from Cornell, a MS in biochemistry from the University of Washington, and a B.A. in chemistry from Augsburg College in Minnesota. He teaches courses in food chemistry, nutrition, and global sustainability.

APRIL

Earth Day. Celebrate Earth Day with the ACS Poetry Contest (see attached fliers on pages 10 and 11)

April 26. Silveira Lecture at SUNY Oswego.

Social hour is at 5:30, with dinner from 6 to 7 pm. The event will begin with socializing and dinner at a restaurant in Oswego (Location to be announced). The Silveira Lecture will be from 7 to 8 pm at Sheldon Hall on the SUNY Oswego Campus. The speaker, Dr Peter Bocko, will present a technical presentation about glass chemistry with a focus on viscoelasticity. The cost is \$15 per person and all ACS members are invited to participate. Additional details will be posted on the Syracuse Section website as they become available.

MAY

May 10, Green Drinks, 6pm at the Hotel Skyler. Join ACS members and others to socialize. For more information: <http://www.greendrinks.org/syracuse> or contact Bill Ayling (aylingwa@verizon.net).

JUNE

Education Night and Ben Burtt Lecture. Details to follow in next issue of the Chemist.

243rd ACS National Meeting, San Diego, CA Syracuse Section Posters and Talks

Spectrophotometry in the high school chemistry laboratory
Richard McGraw, Sally B Mitchell

Pop culture in the chemistry classroom
Elizabeth K Mitchell

One-shot wonder: Integrating chemical information literacy throughout the curriculum
Associate Librarian Linda M Galloway

Kinetics of biodiesel synthesis via supercritical transesterification
Master Student Jiuxu Liu, PhD Student Tao Cong, George Anitescu, Ronghong Lin, Professor Lawrence L Tavlarides

Effect of hydrothermal treatment on lignin of two Paulownia species
Mangesh J Goundalkar, Biljana Bujanovic

Ru-Sn bimetallic catalysts for improved selectivity and stability in the production of gamma-valerolactone
Dr. Jesse Q. Bond, Dr. Stephanie G. Wettstein, Dr. David Martin Alonso, Dr. Hien Pham, Dr. Abhaya K. Datye, Dr. James A. Dumesic

Chemically activated cis-trans isomerization of 1-methylallyl: Reliability of theory for calculating the ratio of density of states of the isomers
Theodore S. Dibble, Yuan Sha, Feng Zhang

SEC studies of lignin extracted from hardwoods in hot water extraction
Prajakta S Dongre, Biljana Bujanovic, Thomas E Amidon

Approach for the quantification of lignin-carbohydrate complexes (LCC) in woody biomass pulps
Daniel J. Nicholson, Gustavo V. Duarte, Ericka F. Alves, David J. Kiemle, Raymond C. Francis

Acid and enzymatic hydrolysis of hot-water extracted delignified sugar maple
Qiong Song, Biljana Bujanovic, Thomas Amidon

Recovery of lignin and lignin degradation compounds after acetone-water-oxygen delignification (AWO)
Chen Gong, Mangesh J Goundalkar, Biljana Bujanovic

Crystallization kinetics and energetics of erbium-containing zinc silicate germanate thin films
Tyler Potter, Danielle McCarthy, Virginia Martelli, Karen Downey

Triplet state energy modulation of pyridine-bis(oxazoline) sensitizers for lanthanide ion sensitization
Jeffrey S.K. Rossini, Prof. Ana de Bettencourt-Dias, Dr. Subha Viswanathan

Measurements of diffusivities of fuel surrogates in supercritical CO₂ by the chromatographic technique
Dr. Ronghong Lin, Prof. Lawrence L Tavlarides

"Five-minute mechanism" program in organic chemistry
Professor Joseph J. Mullins

Controlling bacterial behavior by bicyclic brominated furanones with reduced toxicity
Sijie Yang, Fei Cheng, Professor Yan-Yeung Luk

Synthesis and biological evaluation of aminosteroid inhibitors of the inositol phosphatase SHIP1
Dennis R Viernes, Robert Brooks, Sonya Iyer, Sandra Fernandes, Dr. William G Kerr, Dr. John D Chisholm

Free radical mediated ring expansion to seven-membered bicyclic systems
Kate D. Otley, Robert S. Woodworth, Lydia J. Rono, Ian J. Rosenstein

Competitive ring opening of diaryl-substituted cyclopropylcarbinyl radicals
Cara E. Vennari, Leighanne K. Sherrow, Ian J. Rosenstein

Formation of multicyclic systems via radical cascade reactions
Talia J. Steiman, Ian J. Rosenstein

Progress on the total synthesis of a repeating unit of a pneumococcal serotype
Nicole L Snyder, Connor W Brown, Alexander D Thompson, Megan A Schlosser

Studies on the synthesis of carbohydrate-porphyrin conjugates via 1,3-dipolar cycloaddition
Nicole L Snyder, Rachel R Rothbarth, Taylor P Adams

Synthesis of P-stereogenic water-soluble phosphines for enantioselective liquid-liquid extraction
Max A Williams, Timothy Chapp

Structure-activity relationships in thiophene-based SHIP2 inhibitors
Brittini M Kellum, Dr. William G Kerr, Dr. John D Chisholm

Direct evidences and structural characterizations of the thread assembly formed by nonamphiphilic lyotropic liquid crystals
Sijie Yang, Debjyoti Bandyopadhyay, Deborah J. Kerwood, Bing Wang, Professor Yan-Yeung Luk

Chiral nematic phase of nonamphiphilic lyotropic liquid crystals
Sijie Yang, Dawei Cui, Deborah J. Kerwood, Stephan Wilkens, Karen Simon, Junjie Han, Professor Yan-Yeung Luk

Approach for the quantification of lignin-carbohydrate complexes (LCC) in woody biomass pulps
Daniel J. Nicholson, Gustavo V. Duarte, Ericka F. Alves, David J. Kiemle, Raymond C. Francis

One-shot wonder: Integrating chemical information literacy throughout the curriculum
Associate Librarian Linda M Galloway

Clarification and capture of high concentration refold pools for E.coli based therapeutics using expanded bed adsorption chromatography
Xuankuo Xu, Jeet Hirapra, Kevin Epting, Siegfried Rieble, Shih-hsie Pan, Sanchayita Ghose

Pop culture in the chemistry classroom
Elizabeth K Mitchell

Acid and enzymatic hydrolysis of hot-water extracted delignified sugar maple
Qiong Song, Biljana Bujanovic, Thomas Amidon

NMR studies on the conformational ordering and self-association of the water-soluble polysaccharide pustulan ((1-6)-b-D-glucan)
Professor Arthur J. Stipanovic, Nicholas J. Stam

Catalytic strategies for biomass utilization using solid acid catalysts
Dong Wang, Professor Jesse Q Bond, Dr. David Martin Alonso, Professor James A Dumesic

Selection and evaluation of diesel fuel surrogates
Dr. Ronghong Lin, Prof. Lawrence L Tavlarides

Development and implementation of a lab-scale data acquisition and monitoring system
Scientist Terrance W Carone, Greorgy M Hartnett, Group Leader Susan F Abu-Absi

Role of influenza A neuraminidase electrostatics in the binding of ligands
Erica L Losito, Laura Denny Leonard, Adam W Van Wynsberghe

Investigation of oseltamivir binding kinetics to N1 influenza neuraminidase
Carmen M. Montagnon, Laura D. Leonard, Erica L. Losito, Adam W. Van Wynsberghe

Characterization of the association between neuraminidase and sialic acid using molecular dynamics simulations
Alvin R Wu, Rebecca S Green, Adam W Van Wynsberghe

Determination of an appropriate surface for the transition from Brownian dynamics to molecular dynamics in sialic acid binding to neuraminidase
Dan J Mermelstein, J Elliot Adelman, Adam W Van Wynsberghe

Detection and identification of *Stachybotrys chartarum* microbial volatile organic compounds (MVOCs) on-site using person-portable gas chromatography/mass spectrometry (GC-MS) using a thermal desorption accessory
Amy E Gifford

Electron beam pretreatment of woody biomass to improve biorefining efficiency
Professor Arthur J. Stipanovic, Mark S. Driscoll, Vincent A. Barber

Gold nanoparticle capped with modified β -cyclodextrins as a delivery vehicle for a prodrug of cisplatin
Yi Shi, Professor James C Dabrowiak

New insights into the composition of reactive gaseous mercury (RGM)
Theodore S. Dibble, Matthew J. Zelig, Huiting Mao

Solution phase X-ray scattering and multiscale computational modeling reveal the structural dynamics of ubiquitinated PCNA
Susan E Tsutakawa, Adam Van Wynsberghe, M. Todd Washington, John A. Tainer, Zhihao Zhuang, Ivaylo Ivanov

Effect of nanoparticle shape and charge on cytotoxicity
Professor Shikha Nangia, Stephen C DeSalvo, Professor, Chair Radhakrishna Sureshkumar

Isotope effects in the reaction of deuterated methoxy radicals ($\text{CH}_2\text{DO}\cdot$) with O_2
Hongyi Hu, Theodore S. Dibble, Geoffrey S. Tyndall, John J. Orlando

Tunneling in unimolecular H-shift reactions of a prototypical peroxy radical: 1-Propyl peroxy
Feng Zhang, Theodore S. Dibble

Quality by design case studies: Integration of cell culture, primary recovery and purification process characterization
Marlene Castro-Melchor, Timothy Diehl, Terrance Carone, Patrick Thompson, Susan Abu-Absi

Clarification and capture of high concentration refold pools for *E. coli* based therapeutics using expanded bed adsorption chromatography
Xuankuo Xu, Jeet Hirapra, Kevin Epting, Siegfried Rieble, Shih-hsie Pan, Sanchayita Ghose

Site-directed mutagenesis of intrinsic factor and its potential use as a drug delivery agent
Debbie Valentin, Professor Robert P. Doyle

Thermal stability of diesel fuel: The impacts of temperature, residence time and CO_2
Dr. Ronghong Lin, Prof. Lawrence L Tavlarides

Overexpression, isolation, and oral delivery of the appetite suppressant PYY(3-36)
Christopher H. Fazen, Professor Timothy J. Fairchild, Professor Robert P. Doyle

Experimental and molecular dynamics studies of self-assembly of plasmonic nanoparticles with wormlike micelles
Tao Cong, Georo Zhou, Satvik N Wani, Peter A Paynter, Abhinandan Sambasivam, Radhakrishna Sureshkumar

Advanced biodiesel fuel production and combustion via supercritical fluid technologies
Dr George Anitescu, Professor Lawrence L. Tavlarides, Dr. Thomas J. Bruno



Chemists Celebrate Earth Day 2012 Illustrated Poem Contest:

“Rethinking Recycling— It’s Easy to Be Green!”

The **Syracuse** Section of the American Chemical Society (ACS) is sponsoring an illustrated poem contest for students in Kindergarten - 12th grade.

Contest Deadline: **Friday, March 30, 2012**, send to **Sally Mitchell, ESM High School, 6400 Fremont Road, East Syracuse, NY 13057**

Prizes: **1st Place** in each category: \$25 and invited to Education Night Dinner. Each participant will receive a certificate of participation.

Contact: **Sally Mitchell, sbmitchell2@gmail.com**

Winners of the **Syracuse** illustrated poem contest will advance to the ACS National Illustrated Poem Contest!

Write and illustrate a poem using the CCED theme, “**Rethinking Recycling— It’s Easy to Be Green!**” Your poem must be **no more** than 40 words, and in the following styles to be considered:

HAIKU • LIMERICK • ODE • ABC POEM • FREE VERSE • END RHYME • BLANK VERSE

Possible topics related to *recycling and chemistry* include:

- Recyclable materials (e.g. aluminum, glass, paper, plastic) and the related chemistry
- Green chemistry and sustainability
- Biodegradable materials
- Reduction of greenhouse gases, pollution, and waste
- Any other relevant topics

Entries will be judged based upon:

- Relevance to and incorporation of the theme
- Adherence to poem style
- Word choice and imagery
- Originality and creativity
- Colorful artwork
- Overall presentation



Contest Rules:

- Poems must conform to a particular style. No poem may be longer than 40 words.
- The topic of the poem and the illustration must be related to the CCED 2012 theme, “Rethinking Recycling – It’s Easy to Be Green!”
- All entries must be original works without aid from others.
- Each poem must be submitted and illustrated on an unlined sheet of paper (of any type) not larger than 11” x 14”. The illustration must be created by hand using crayons, watercolors, other types of paint,

- colored pencils or markers. The text of the poem should be easy to read and may be printed with a computer, before the hand-drawn illustration is added, or the poem may be written on lined paper which is cut out and pasted onto the unlined paper with the illustration.
- Only one entry per student will be accepted.
- All entries must include an entry form.
- All illustrated poems and/or digital representations of the poems become the property of the American Chemical Society.
- Acceptance of prizes constitutes consent to use winners’ names, likenesses and entries for editorial, advertising and publicity purposes.



Chemists Celebrate Earth Day (CCED) 2012
“Rethinking Recycling—It’s Easy to Be Green!”

ILLUSTRATED POEM CONTEST ENTRY FORM

Please fill out this form, print, and attach to the back of the poems. All fields are required. Incomplete forms will invalidate the entry. The **receipt deadline** for poems is **Friday, March 30, 2012 to the Local Section Coordinator.**

Send to: Sally Mitchell, ESM High School, 6400 Fremont Road, East Syracuse, NY 13057 or scan and email to sbmitchell2@gmail.com

Student’s Name											
Grade											
Parent/Guardian											
School or sponsoring group: <i>(e.g. Boys and Girls Club or Scout Troop, 4-H, etc.)</i>											
Teacher’s Name											
School Address											
Address Line 2											
City				State		Zip					
Judging Category											
K-2 nd		<input type="checkbox"/>	3 rd -5 th		<input type="checkbox"/>	6 th – 8 th		<input type="checkbox"/>	9 th – 12 th		<input type="checkbox"/>
FOR LOCAL SECTION USE ONLY											
Local Section Name (Number)				Syracuse (L112)							
CCED Coordinator Name				Sally Mitchell, sbmitchell2@gmail.com							
Telephone				315-637-9837							

ACS SYRACUSE LOCAL SECTION

IRON CHEMISTRY: FROM FOOD FORTIFICANTS TO METABOLIC REGULATION

Date: Thursday, March 29, 2012

Time: 6:00 pm Dinner

7:00-8:00 pm Talk

Location: Sci-Tech 1-019

Syracuse University

Cost: Dinner - \$5.00 payable at the door, must rsvp by 3/26/12 for parking and/or dinner
sbmitchell2@gmail.com



Iron is an essential nutrient for nearly all forms of life. It is the 4th most abundant element in the earth's crust yet, 2 billion people worldwide suffer from iron deficiency.

This talk will present the results of studies using the iron chelate, sodium iron ethylenediaminetetraacetate (NaFeEDTA) as an effective food fortificant and offer a recommendation on the safety of adding NaFeEDTA to foods. The dinner will consist of delicious foods high in iron. Door prizes will be awarded.

Dessert will be served immediately following the talk.

*Sponsored by the East Syracuse Minoa ChemClub and
Syracuse University Student ACS Chapter*

THURSDAY, MARCH 29, 2012



Syracuse Chemist

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dabarr@utica.edu

Deadline for material:

Chemists will be published every other month beginning in January. The deadline for submitted materials will be the 15th of every even numbered month (Ex. 2/15 for the March issue). Please submit print ready materials to Michelle Boucher mboucher@utica.edu

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Organized as the Syracuse Chemical Society in 1902 and chartered as a section of the American Chemical Society in 1907, the Syracuse Section now includes Central New York counties of Cayuga, Cortland, Madison, Oneida, Onondaga, Oswego and Seneca.

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