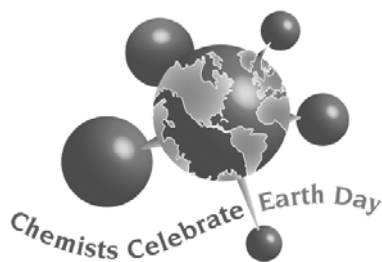


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American Chemical Society
Department of Chemistry
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April 22, 2008

Theme: "Streaming Chemistry"

Visit <http://www.acs.org/earthday> for more information.

Mid-Hudson ACS Website:
<http://www.midhudsonacs.org>

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Mid-Hudson Chemist Editor/Publisher: Gissel Mentore

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The following website may be used to subscribe,
unsubscribe, or view the archive:

<http://lists.msmc.edu/mailman/listinfo/acs-mh>

**To post a message to all the list members, send
email to acs-mh@lists.msmc.edu.**

NERM2008

The 34th Northeast Regional Meeting of the American Chemical Society will be held in the Sheraton Conference Center in scenic Burlington, Vermont from June 29 to July 2, 2008. Visit <http://www.nerm2008.org> for information. The technical program will feature symposia on topics of particular current or regional interest. The technical program will be complemented with a day focused on continuing education for K-12 chemistry teachers, with technical and career development workshops, and with social and networking events. The Chemistry Enthusiasts program will provide a series of entertaining and thought-provoking lectures and discussions aimed at those who have an interest in chemistry, but are not full-time researchers. The NERM2008 exhibition will provide an invaluable opportunity to learn about chemistry-related products and services from leading providers.

To submit an abstract for oral or poster presentation of research, visit <http://www.nerm2008.org>. The deadline for abstract submission is May 11.

Hudson Valley Science Café

A Science Café is a monthly gathering in a café, open to the public, with a short presentation of a topic followed by discussion. The essence of a Science Café is informality, with groups seated around tables with food and drink to encourage conversation. Hudson Valley Science Café meets on the 4th Tuesday of the month. Temporary website: <http://www.cafescientifique.org/hudsonvalley.htm>

To suggest a speaker, please contact Dr. Toby Rossman (rossman@env.med.nyu.edu).

ADDRESS

It's All Good Restaurant, now at 394 Washington St,
Newburgh (Southern food)
Food and drinks served from 6:00-7:00 and after 7:30.
\$3.00 admission fee includes coffee or tea.

February 26, 2008

"What's So Special About Nano? An Introduction to Nanoscience"
Janet M. Petroski, Ph.D., Asst. Professor of Chemistry,
Mount Saint Mary College, Newburgh, NY

March 25, 2008

"Human Evolution"
Ximena Valderrama, Ph.D. Asst. Professor of Biology,
Ramapo College, Mahwah, NJ

April 22, 2008

"A Glance at the Future Without Anthropogenic Global Warming"
Juerg Michael Matter, Ph.D., Lamont-Doherty Earth
Observatory, Palisades, NY

May 27, 2008

"Don't Put All Your Shrimp Eggs in One Basket - Estuarine Shrimp and Their Importance in the Food Chain and Their Use as Biomonitors"
Kathleen Nolan, Ph.D., Professor and Chair, Dept. of
Biology, St. Francis College, Brooklyn Heights, NY

June 24, 2008

"From *Sherlock Holmes* to *CSI*: Chemistry as a Forensic Science"
James T. Spencer Ph.D., Professor of Chemistry,
Syracuse University

(Hudson Valley Science Café has received start-up funds from WGBH-NOVA and The American Chemical Society.)

**The Mid-Hudson Section of the American Chemical Society
and**

The Chemistry Department of Vassar College

Announce

Biobleaching Enzymes for Green Production of White Paper

Dr. Elisa M. Woolridge
Assistant Professor of Chemistry
Department of Chemistry, Biochemistry, & Physics
Marist College

Thursday, February 21, 2008

7:00 PM

3rd Floor Mudd Chemistry Building, Science Visualization Lab
Vassar College, Poughkeepsie, New York
(Refreshments at 6:30 PM)

Contact: Joe Tanski at 845-437-7503 or by e-mail at jotanski@vassar.edu

About the lecture: The paper industry has a notorious reputation for using harsh pulping and bleaching chemicals to produce a white, bright product. Many companies, in the interest of minimizing the environmental impact of their processes, have turned to solutions found in nature to degrade lignin and liberate cellulose, the prized substance for papermaking. For example, the biomass-processing enzymes laccase and xylanase can independently modestly reduce the amount of chlorine dioxide required for bleached pulp production. Although combined enzyme treatment is anticipated to be appealing to biomass-converting industries seeking to implement green processes, simultaneous incubation of these enzymes results in the rapid loss of xylanase activity. This talk will give an overview of biotechnology processes used in the industry and will also report on the progress of our research to understand and improve such processes.

Directions to Vassar College: Vassar College is located off Raymond Avenue in Poughkeepsie, NY. Refer to the following link for driving directions and campus map: <http://www.vassar.edu/directions/>. Enter the Main Entrance of the campus on Raymond Avenue and go right towards the Mudd Chemistry Building. The Security Guard at the Main Entrance will direct you to parking.

**The Mid-Hudson Section of the American Chemical Society
and
The Department of Chemistry, Biochemistry and Physics of Marist
College**

Announce

**From the Test Tube to the Cell: Efforts to Study In Vivo
Protein Folding and Aggregation**

Distinguished Professor Lila Gierasch

Department of Biochemistry and Molecular Biology
University of Massachusetts Amherst

Thursday, March 13, 2008

7:00 PM

Donnelly Hall 237

Marist College, Poughkeepsie, New York
(Refreshments at 6:30 PM)

Contact: Neil Fitzgerald at 845-575-3000 ext. 2491 or by e-mail at Neil.Fitzgerald@marist.edu

Directions to Marist College: Marist College is located at 3399 North Road, just off Rte. 9, approximately 1 mile north of the Mid-Hudson Bridge in Poughkeepsie, NY. Detailed directions are available at <http://www.marist.edu/about/directions.html>. For a campus map, please visit <http://www.marist.edu/about/map.html>.

9th Annual ACS Undergraduate Chemistry Research Symposium

Friday, April 18, 2008

4:00 – 8:30 PM
Mount Saint Mary College
Aquinas Hall

Poster Session: 4:00 – 5:15 PM
(Poster set-up starts at 3:30)
Talk: 5:30– 6:30 PM (open to all)
Dinner: Immediately following talk (reservations required)

Guest Speaker: Dr. Nicholas E. Leadbeater
Department of Chemistry, University of Connecticut

"It's Easy Being Green:
Clean, Fast Chemistry"

The Mid-Hudson Section of the American Chemical Society is pleased to announce the ninth annual Undergraduate Chemistry Research Symposium to be held at Mount Saint Mary College on Friday, April 18, from 4:00-8:30 PM. The symposium provides a chance for area undergraduate students in the chemical sciences to present their research. All areas of chemistry, environmental science, molecular biology, and related fields are welcome. The poster presentations will be held from 4:00-5:15 PM, followed by a guest speaker at 5:30 PM.

The Symposium: The symposium will be held from 4:00 PM to 8:30 PM. Set-up must be completed by 4:00 PM. As in previous years, all research will be presented as posters. To present a poster, please submit an abstract of 200 words or less. The format for the abstract should adhere as closely as possible to the following guidelines: 1) 12 point Times-Roman font, 2) One inch margins, 3) MS Word document, 4) The abstract title should be typed in capital letters, followed by the authors' names and institution name, institution address, and telephone number in lower case letters. Advisor's name should be followed by an asterisk (*). **Please submit the abstract no later than Friday, April 4 by e-mail to Dr.Lynn Maelia.** If you are unable to meet this deadline, please contact Dr. Maelia by phone or e-mail. Poster easels will be available for the first 35 participants; tables will also be available. Your poster should be self-supported on cardboard or posterboard backing. The standard size for ACS posters is 48 inches wide by 36 inches high. You will be contacted before the symposium to confirm acceptance of your abstract. Please note: there will be a \$25 conference fee per poster up to \$100 maximum per school. Please submit your abstract, via e-mail to:

Dr. Lynn Maelia
Phone: 845-569-3131
E-mail: maelia@msmc.edu

Dinner: Salad, Chicken Picatta, Eggplant Rollatini, Vegetables, Dessert: \$20. Please make reservations with Dr. Lynn Maelia by **Friday, April 11**. Dinner will follow the guest lecture at approximately 6:30 PM.

Directions to Mount Saint Mary College:

From the West

From the west take I-84E to Exit 10. At the bottom of the ramp take a right onto 9W South. At the first traffic light take a left onto North Plank Road. (You'll see a large Sunoco gas station at this intersection.) Stay on North Plank Road 1/4 mile and turn right at the first traffic light onto Powell Avenue. The College is about 1/4 mile further on your left.

From the North or South

Take the Garden State Parkway or Route 17 North to the New York State Thruway (I-87N-Albany). Follow the Thruway to Exit 17-Newburgh. Take I-84E and follow the directions for traveling to campus "From the West."

From the East

If you're traveling to campus from the east take I-84W to the second exit after the Newburgh-Beacon Bridge (Exit 10S). At the bottom of the ramp make a right onto Route 32 and then another right at the first traffic light onto 9W South. At the second traffic light, take a left onto North Plank Road. (You'll see a large Sunoco gas station at this intersection.) Stay on North Plank Road 1/4 mile and turn right at the first traffic light onto Powell Avenue. The College is about 1/4 mile further on your left.

Call for Applications for 2008 Undergraduate Student Research Awards

The Mid-Hudson Section of the American Chemical Society invites applications for 2008 Undergraduate Research Awards from student researchers who plan to present their work at the 2008 undergraduate poster symposium. Six students will be selected to each receive a \$100 award. *Applications for research awards are not a requirement for attending and presenting at the poster symposium.*

Rationale

The Mid-Hudson Section wishes to reward undergraduates who participate in good quality research and plan to present at the poster symposium by providing small grants to allow students to present at a regional or national conference.

Criteria

Research work should be completed by a student currently enrolled (2007-2008 academic year) as an undergraduate at one of colleges in the Mid-Hudson ACS area. Students must plan to present their work at the 2008 Mid-Hudson ACS Undergraduate Research Poster Symposium.

Application Procedure

Applicants must submit a short (2 page maximum) summary of their research work aimed at an audience with college level chemistry knowledge. Applicants should include a brief background, relevant results, and possible significance of the research to the wider community. The summary should be written in normal scientific format and divided into appropriate sections (Introduction, Experimental, Results and Discussion, Conclusion, Acknowledgements, and References). Applications should be sent along with the poster abstract to Dr. Lynn Maelia, e-mail: Maelia@msmc.edu by April 4, 2008, in electronic format (as a WORD document or pdf).

American Chemical Society Mid-Hudson Section College Recognition Awards

The Mid-Hudson Section of the American Chemical Society is once again sponsoring the College Recognition Awards. The purpose of this award is to recognize achievement in the field of chemistry and to encourage further study in chemistry. One student from each college in the Mid-Hudson Section will be presented a certificate and cash award at the Undergraduate Research Symposium at Mount Saint Mary College on April 18, 2008.

The chemistry faculty at each college should select one award winner on the basis of general excellence in chemistry. Four-year degree-granting colleges may wish to recognize a junior year student, while a community college may select a second-year student.

Winning selections from the faculty should be submitted by April 1, 2008. Please send the student's name, as well as the faculty advisor's name to Dan Freedman by e-mail (freedmad@newpaltz.edu).

50-Year Members

At the meeting and dinner at Mount Saint Mary College on April 18, the Mid-Hudson Section will honor our 6 local section members that first joined ACS in 1959 and have achieved their 50-year anniversary this year. Please save the date.

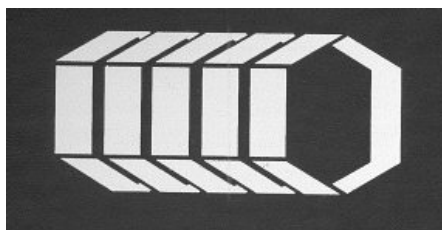
2008 Dutchess County Regional Science Fair

A message from Patti Cusatis:

The 2008 Dutchess County Regional Science Fair will be held on Saturday, April 5 at the Dutchess Community College in Poughkeepsie. The Mid-Hudson Section has participated in this Fair for many years. I am now looking for volunteers to help with the judging for the special awards presented by our section. The judging will start at about 9:00AM and must be completed by 1:00PM. We will be judging all the projects which are related to chemistry. The number varies every year, but we typically judge about 60 - 70 exhibits. Each person will judge about 10 projects. There is a judging criteria which we use as a guideline in our review of each project. If you have never taken part, I think you will find it to be a rewarding experience. The students are very receptive to the ideas and comments from professionals and appreciate the time given to their efforts.

Please contact me by e-mail
(patti.cusatis@ciba.com) or by phone at 914-785-2970 (daytime) or 845-569-1359 (evenings).
Thank you.

Patti Cusatis
Ciba Specialty Chemicals/PLA
540 White Plains Road
Tarrytown, NY 10591
914-785-2970 (voice)
914-785-2868 (fax)
patti.cusatis@ciba.com



Attention: High School Teachers and Students

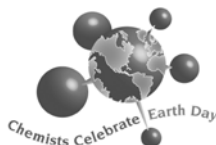
The Mid-Hudson Section of the American Chemical Society will be participating in the International Chemistry Olympiad for 2008. We are starting the selection process to choose 10 participants from the Mid-Hudson Section. These 10 participants will take the National Chemistry Olympiad qualifying exam on Saturday, April 19th at Mount Saint Mary College. Part of the National exam will consist of a laboratory practical section, as in past years. Twenty students will be chosen nationally from the results of the national exam to participate in a study camp at the U.S. Air Force Academy in Colorado Springs in June. From these students, the national team will be selected to represent the U.S. in Budapest, Hungary in July.

To select our 10 students, we will hold Local ACS Section qualifying exams, which will be administered at your school, should you choose to participate. If you feel that your school has students who can compete in the Local Section exams, or are a high school student who would like to participate, please let us know. More information can be found at www.chemistry.org/education/olympiad.html.

We encourage you to take part in this exciting program! Contact Lynn Maelia by phone: 845-569-3131, fax: 845-562-6762, e-mail: maelia@msmc.edu or mail at Mount Saint Mary College, 330 Powell Avenue, Newburgh, New York 12550.

The Mid-Hudson ACS Section Celebrates Earth Day

As part of our celebration of Earth Day, the ACS is sponsoring an **Illustrated Haiku** contest. (The details for the contest follow on the next two pages.) The top entry in each of the four age categories, K – 2nd grade, 3rd – 5th grade, 6th – 8th grade, 9th – 12th grade will be entered in the national contest. There will be prizes from the Mid-Hudson ACS for the top three entries in each category. All entries should be returned to Dan Freedman (freedmad@newpaltz.edu) at the address below by March 15. Please pass this on to any K-12 educators that you know.



Dan Freedman
Chemistry Department
SUNY New Paltz
1 Hawk Drive
New Paltz, NY 12561



Chemists Celebrate Earth Day: “Streaming Chemistry” Illustrated Haiku Contest

As part of their Chemists Celebrate Earth Day celebration, the American Chemical Society (ACS) is sponsoring an illustrated haiku contest for students in grades Kindergarten-12.

A haiku is a three-line poem with five syllables in the first line, seven in the second, and five in the third. Haikus typically have nature-related themes and do not rhyme, as in the example below.

*Submerged rocks stare back
through the glistening water
streaming clean and clear.*



Possible topics related to streams and chemistry include:

- ⌘ Water flowing in rivers, creeks, streams, or over dams.
- ⌘ Adopt a Stream – keeping streams and rivers beautiful.
- ⌘ Hydroelectric power – energy from falling water.
- ⌘ Environmental chemistry –keeping water clean.
- ⌘ Green chemistry – water purification.
- ⌘ Conservation of water a limited and valuable resource.
- ⌘ Properties of water - boiling point, freezing point, density, heat capacity, pH, salinity, turbidity, conductivity.
- ⌘ Phases – solid (ice), liquid, gas (water vapor or steam).
- ⌘ Chemical changes – hydrolysis of water.

Winners will be selected in each of the following categories:

- K – 2nd grade
- 3rd – 5th grade
- 6th – 8th grade
- 9th – 12th grade

National Prizes:

- 1st Place in each grade category – \$200
- 2nd Place in each grade category – \$100

For more information about contests in your area, contact the American Chemical Society Office of Community Activities at 800-227-5558, x4458 or earthday@acs.org.

Chemists Celebrate Earth Day Illustrated Haiku Contest

ACS Local Sections are encouraged to participate in the Chemists Celebrate Earth Day (CCED) illustrated haiku contest by inviting area Kindergarten – 12th grade students to compete.

Contest Rules

- Poems must conform to the haiku style. Students in grades K-2 may be more free with their syllables; however, no poem may be longer than 25 words.
- The topic of the haiku and the illustration must be related to the CCED theme, “Streaming Chemistry” and should reflect some aspect of water science from the possible topics listed, including the responsible use and care for this limited and valuable resource.
- All entries must be original works without aid from others.
- Each poem must be submitted and illustrated on an unlined 8.5” x 11” sheet of paper (of any type). 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 have the following information included with the entry: student’s name, grade, home address, telephone number, school name, school address, teacher’s name, email, and school telephone number (both addresses are used for sending prizes; please provide complete information).
- All illustrated haikus and/or digital representations of the haikus 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.

Coordinator Information

- ACS CCED Coordinators determine how many entries per school will be accepted into the local contest.
- ACS CCED coordinators will identify and submit a maximum of one winning entry in each of the four (4) grade categories to the national contest (entries from areas not covered by any ACS Local Section’s territory will be handled on a case-by-case basis).
- When coordinators submit entries to the national contest, the following information must also be included with each entry: local section name, coordinator name and email address.
- National contest entries must be *received* by the ACS in Washington, DC by Friday, April 11, 2008. National winners will be announced on or before April 22, 2008.
- ACS is not responsible for lost, damaged, or delayed postal shipments and electronic submission is encouraged.

Entries will be judged based upon:

- Relevance to and incorporation of “Streaming Chemistry” theme
- Word choice and imagery
- Colorful artwork
- Adherence to haiku style
- Originality and creativity
- Overall presentation

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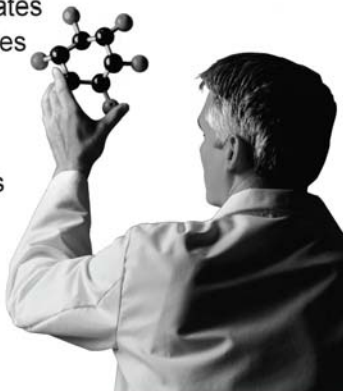
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