

**Mid-Hudson Chemist
American Chemical Society
Department of Chemistry
SUNY New Paltz
1 Hawk Drive
New Paltz, NY 12561**



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~Join the Mid-Hudson ACS Listserv! ~

The October issue of this newsletter will be available only at www.midhudsonacs.org. When the issue is available, a message will be sent to the listserv. Any changes to upcoming events included in this issue will also be available on the listserv. Please subscribe!

The Mid-Hudson Section does not automatically subscribe members to its listserv. To add your e-mail address, you must send an e-mail message to listserv@acc.msmc.edu with a blank subject line and the following command in the body of your message:

subscribe acs-mh

You will then receive an e-mail message with more information about the listserv (posting to the list, unsubscribing, etc.).

Please join the listserv!

Greetings from the Chair

I would like to highlight some of the Mid-Hudson ACS events coming up this fall. We have an impressive array of seminars planned. Two local speakers, Pamela St. John from SUNY New Paltz and Charles Davis from IBM, as well as William Carroll, the 2005 President of the ACS, will be speaking on an interesting and diverse array of topics. I'm sure you will find it worthwhile to attend. Our other main event this fall is National Chemistry Week which is scheduled for October 22-28. The theme this year is "Your Home – It's All Built on Chemistry". NCW Family Night events planned will include hands-on activities for kids. Bring some kids or volunteer to help! For those of you in academia, it's not too early to start thinking about the Undergraduate Research Symposium which will be held in April at Vassar College.

- Dan Freedman

Elections – Get Involved!

Elections will be held in October to fill the positions of Chair-Elect, Secretary, Treasurer, and Member-at-Large on the Mid-Hudson ACS Board. If you would like to influence the direction of the section or just have a chance to meet with chemists from all over the Hudson Valley, this is the place to be. The Board meets once a month. Contact Dan Freedman at freedmad@newpaltz.edu if you are interested.

Mid-Hudson ACS Website:

www.midhudsonacs.org

2006 Mid-Hudson ACS Executive Committee:

Chair: Dan Freedman; Chair-Elect: John Edwards;
Past Chair: John Galbraith; Treasurer: Joan Skinner; Secretary: Neil Fitzgerald;
Councilor: David Straus; Alternate Councilor: Timothy MacMahon;
Members-at-Large: Joe Tanski, Cynthia MacMahon, Jocelyn Nadeau;
Program Chair/Webmaster: John Edwards;
Public Relations Chair: Mary Dery;
Awards Chair: Patti Cusatis; WCC Chair: Mary Dery;
Mid-Hudson Chemist Editor/Publisher: Gissel Mentore

Women Chemists Committee News

The WCC, in conjunction with the Putnam Northern Westchester Girl Scouts, will sponsor another Girl Scout Badge Day on November 4, 2006, at the Rock Hill Girl Scout Camp in Mahopac, NY. The event will take place from 12:00 - 3:30 PM, and women chemists are encouraged to volunteer. Activities such as slime making, circuitry, acid base chemistry, engineering structures and home chemical safety will be featured. These activities are outlined in the Making it Matter Badge for Junior Girl Scouts. Anyone interested in helping out, please contact Mary Dery at derymary@aol.com or call 845-528-0230.

WCC will also have a dinner meeting at the Bonefish Restaurant in Poughkeepsie on September 9, 2006. Please contact Mary if you would like to attend.

Adjuncts Needed – Marist College

Marist College invites applications for part-time Adjunct Faculty positions to teach General Chemistry Labs starting in the Fall 2006 semester. Other courses may become available in the Spring 2007 semester. Candidates for these positions must possess a Master's Degree in Chemistry, or closely related fields. Marist College is strongly committed to the principle of diversity. We are especially interested in receiving applications from members of ethnic minorities, women, disabled individuals, and other under-represented groups.

Mr. Robert Balogh-Robinson
School of Science, Dept. Chemistry,
Biochemistry & Physics
Adjunct Faculty Search -Chemistry/Physics
Marist College
3399 North Road
Poughkeepsie, New York 12601

**8th Annual ACS Undergraduate Chemistry
Research Symposium...**

**April 2007
Vassar College**

34th Northeast Regional Meeting of the American Chemical Society NERM 2006 - Binghamton, New York October 5-7, 2006

Please visit www.nerm2006.org for meeting details. In addition to traditional Inorganic, Organic, Physical, and Analytical Chemistry programs, an exciting array of interdisciplinary research from academic and industrial laboratories, cosponsored by ACS, MRS and IEEE/CPMT, will be highlighted:

Nanotechnology
Polymer Materials & Green Chemistry
Molecular Solids
Flexible Electronics
Life Sciences and Biotechnology
Environmental
Chemical Education and Information Sciences

There will be a special day of undergraduate student programming on Friday, October 6 cosponsored by the Division of Chemical Education and the Younger Chemists Committee.

The meeting will be hosted in downtown Binghamton by the Binghamton Local Section of the ACS and Binghamton University (SUNY) at the Binghamton Regency and Holiday Inn hotels. Registration forms and lodging information for the meeting are available on the web at www.nerm2006.org.

NERM2006 is proud to announce that the Keynote Address for the meeting will be given by Tobin Marks, Vladimir N. Ipatieff Professor of Chemistry at Northwestern University. Professor Marks will deliver his paper, **New Materials and Processes for Organic Transistors, Inorganic Transistors, and Printed Electronics** at 5 pm on Thursday, October 5 with a reception and poster session immediately following.

If you have questions regarding a presentation or registration, please contact wjones@binghamton.edu or 607-777-2421.

-Wayne Jones, General Chair, NERM 2006
-Mark Poliks & Omowunmi Sadik, Program Chairs

College Recognition Awards – 2006

The following students were nominated to receive the College Recognition Award for 2006. The Mid-Hudson Section presents these awards to an outstanding student from each of the colleges in the Section. The students were nominated by the chemistry faculty at their college based on a strong academic record in their chemistry studies. The recognition consists of a \$75 cash award and a certificate. These students were recognized at the Undergraduate Research Symposium in April. Please join us in congratulating these deserving students!

College	Student	Advisor
Marist College	Tait Takatani	Dr. Johnny Galbraith
Vassar College	Alice England	Dr. Marianne Begemann
SUNY Dutchess	Emmanuel Adjaloko	Dr. Abdul Brimah
SUNY Ulster	Mark Abraham	Mr. Steve Plumb
SUNY Orange	Andrew Kalter	Dr. Pak Leung
SUNY New Paltz	Matthew McLaughlin	Dr. Dan Freedman
USMA at West Point	Cadet Laura A. McGinnis	Dr. Andy Biaglow
Mount Saint Mary	Dana Compton	Dr. Lynn Maelia
Bard College	James Morris	Dr. Craig Anderson

LOCAL STUDENTS WIN CHANCE TO QUALIFY FOR INTERNATIONAL CHEMISTRY OLYMPIAD

Six outstanding high school chemistry students from the Mid-Hudson section took a national exam at Marist College in April to qualify them to become members of the U.S. National Chemistry Olympiad team. Based on the results of the national exam, twenty students were selected to undergo intensive training in June at the U.S. Air Force Academy in Colorado Springs. The top four were chosen to represent the U.S. in the International Chemistry Olympiad (IChO) competition in Gyeongsan, Republic of Korea in July. Although none of the Mid-Hudson student candidates were the top 20 in the country who then passed on to the next level of competition, they should be commended for their outstanding performance on the local exam and their willingness to attempt the grueling 4 hours and 45 minutes of national testing. These students and their faculty mentors are:

Student	Faculty Mentor	School
Joseph Palazzo	Shirley Thompson	Middletown High School
Melanie Haines	Shirley Thompson	Middletown High School
Phillip Monkowski	Bill Istone	Newburgh Free Academy
Kachina Gosselin	Donna Marrin	Onteora High School
Aminy Ostfeld	Jason Pavlich	Red Hook High School
Steve Leach	Terri Campbell	Valley Central High School

The Mid-Hudson Section would also like to acknowledge the contributions of the following high school teachers who took the time to encourage students to participate in the local testing. Without their involvement in the process, our local Chemistry Olympiad competition would not be possible. Because of them, 165 students from 14 schools in the area participated in the first round of local section testing from which the top students were selected to take the national exam.

Veronica O'Donnell	Cornwall Central H.S.
Ed Rogers	Highland H.S.
Jim Starr	Kingston H.S.
Shirley Thompson	Middletown H.S.
William Istone	Newburgh Free Academy
Donna Marrin	Onteora High School
Jason Pavlich	Red Hook High School
Matthew Marusek	Rondout Valley High School
Terri Campbell	Valley Central High School
Jim Santos	Port Jervis High School
Joan DiStasio	Minisink Valley High School
Edward Schmidt	Brewster High School
Ed Davis	Wallkill High School
David Baruch	Carmel High School

**The Mid-Hudson Section of the American Chemical Society
and the Chemistry Department of Vassar College**

Announce

Dynamics of DNA Hybridization

Dr. Pamela St. John

Department of Chemistry
SUNY New Paltz

Wednesday, September 20, 2006
Vassar College

Lecture: 7:00 PM

Room: Science Visualization (SciVis) Lab
3rd Floor, Mudd Chemistry Building

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

About the lecture: The physical properties of reactions, including reaction rates and equilibrium constants, are essential in understanding how biological molecules interact. For example, the properties of reactions involving folded proteins in solution have been studied for decades in order to solve biological questions concerning both structure and function. Although DNA structure is more predictable than protein structure, single stranded DNA can also fold to create stable structure that can perturb the hybridization reaction. The measurement of the kinetics and thermodynamics of hybridization using short strands of synthetic DNA under various conditions to understand how single stranded structure can influence this reaction will be discussed.

About the speaker: Dr. St. John received a B.S. in Chemistry from SUNY Stony Brook in 1989 and a Ph.D. in Chemistry from UCLA in 1994. She then worked with Dr. Harold G. Craighead as a postdoctoral fellow at Cornell University. In 1996, Dr. St. John joined Applied Biosystems in Foster City, CA, as a senior scientist. She became a member of the Chemistry Department at SUNY New Paltz in 2003 and is currently an Associate Professor. Her research interests are focused in the field of biophysical chemistry where she is interested in studying kinetics and thermodynamics of reactions involving biological molecules. Dr. St. John has undergraduate students working on separate projects that include understanding the effects of modified DNA on the hybridization kinetics of oligodeoxyribonucleotides and polyacrylamide gel electrophoresis as a means for understanding single stranded structure of oligonucleotides.

Directions: 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 Chemistry Department of Marist College**

Announce

From Garbage to Stuff: How We Recycle Plastics

Dr. William F. Carroll

Wednesday, October 4, 2006
Marist College

Lecture: 7:00 PM
Room: TBA

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

About the lecture: Is that recycling bin the springboard to giving material a new life or is it simply a blue wastebasket? What about surplus materials from industrial processes? Do they find their way out the back door to the landfill? This presentation discusses the four critical steps in recycling-- collection, separation, reprocessing and remanufacture-and how they relate to plastics. The technology, the cost and the efficacy of the processes all matter. And the operative word, plastics, really is plural. Presentation includes a primer in the basic kinds of plastics, how they differ and how they're used in common articles, especially packaging. The presenter brings a few common articles for demonstrations, and promises not to recycle an old quote from Dustin Hoffman?

About the speaker: Dr. William F. Carroll, Jr. holds a B.A. in Chemistry and Physics from DePauw University, Greencastle, IN, an M.S. from Tulane University in New Orleans, and a Ph.D. from Indiana University, Bloomington, IN, both in Organic Chemistry. Dr. Carroll started his industry career in 1978 and after a year with Rohm and Haas Company, Bristol, PA, moved to what is now known as Occidental Chemical Corporation. He is currently Vice President, Chlorovinyl Issues for OxyChem and works on public policy issues and communications related to chlorine and PVC. He is also Adjunct Professor of Chemistry at Indiana University, Bloomington, Indiana and teaches polymer chemistry there. Dr. Carroll was President (2005) of the American Chemical Society, a member of the ACS Budget and Finance Committee, and past chair of its International Activities Committee. He is a Fellow of the Royal Society of Chemistry, a member of the US National Committee for the International Union of Pure and Applied Chemistry, and a member of the Science Advisory Board for DePauw University. He has been an active member of and chaired various committees for a number of chemistry, plastics, fire protection and recycling organizations. He has served on expert groups commissioned by the United Nations Environmental Program, the State of Florida, and the Oregon Department of Environmental Quality. He received the Vinyl Institute's Roy T. Gottesman Leadership Award for lifetime achievement in 2000. He holds two patents, and has over forty publications in the fields of organic electrochemistry, polymer chemistry, combustion chemistry and physics, incineration, plastics recycling and chlorine issues.

Directions: 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 www.marist.edu/welcome/direct.html/. For a campus map, please visit www.marist.edu/welcome/map.html.

Additional 2006 Lectures

(For more details, subscribe to the MH-ACS Listserv and visit www.midhudsonacs.org.)

Dr. Richard L. Bennett

University of Florida, Shands Cancer Center

To Be or Not to Be... Regulation of Mammalian Cell Death in Response to Stress

Date: Tuesday, September 12, 2006

Location: **USMA at West Point**

Time: 7:30 PM

Contact: MAJ Kimberly A. Bennett (845-938-3892)

Dr. Glenn A. Eisman

Rensselaer Polytechnic Institute

Emerging Energy Changes and Challenges: Fuel Cells and Hydrogen

Date: Thursday, September 28, 2006

Location: **SUNY New Paltz**, Coykendall Science Building (CSB) Auditorium

Time: 4:00 PM

Contact: School of Science and Engineering, Associate Dean David Clark (clarkd@newpaltz.edu, 845-257-3728)

Dr. Kenneth Feldman

The Pennsylvania State University

Area of Research: Total synthesis of natural and unnatural products; new synthetic methods

Date: Friday, October 6, 2006

Location: **SUNY New Paltz**, Coykendall Science Building (CSB) Rm 320

Time: 3:30 PM

Contact: Dr. Pamela St. John (stjohnp@newpaltz.edu, 845-257-3794)

Dr. Ephraim Woods

Colgate University

Area of Research: Physical chemistry of aerosol particles, structure of liquid surfaces, kinetics and dynamics of heterogeneous chemical reactions, mass spectrometry of single aerosol particles, laser control of chemical reactions

Date: Friday, October 20, 2006

Location: **SUNY New Paltz**, Coykendall Science Building (CSB) Rm 320

Time: 3:30 PM

Contact: Dr. Pamela St. John (stjohnp@newpaltz.edu, 845-257-3794)

Dr. Charles Davis

IBM

(Sponsored by the Mid-Hudson Section)

Advanced, Leading-Edge Semiconductor Research and Development.... Science and Engineering at Its Best

Date: Wednesday, November 15, 2006

Location: **SUNY New Paltz**, Coykendall Science Building (CSB) Rm 320

Time: 7:00 PM

Contact: Dr. Dan Freedman (freedmad@newpaltz.edu, 845-257-3795)

Information about the speaker and lecture will appear in the October newsletter and on the MH-ACS listserv.

Announcement: X-ray Diffractometer

The Department of Chemistry at Vassar College has recently installed a state-of-the-art single crystal X-ray diffractometer for chemical crystallography. Funding for the instrument was obtained through a National Science Foundation's Major Research Instrumentation proposal, "Acquisition of a CCD X-ray Diffractometer for Chemical Research and Education," NSF-0521237.

X-ray crystallography is a powerful technique for determining the molecular structure of materials, or the actual arrangement of atoms in molecules. X-ray diffraction techniques have enabled some of the most seminal discoveries in science, including the discovery of the double-helix structure of DNA and the elucidation of the structures of penicillin and hemoglobin.

The SMART APEX II platform diffractometer from Bruker Advanced X-ray Solutions is equipped with a MonoCap X-ray waveguide that increases the collimated X-ray intensity by a factor of 2.5, an APEX II charge-couple device (CCD) detector with ten-fold better sensitivity than first generation CCDs and an Oxford liquid nitrogen cryostream. These features make the instrument useful for a large variety of samples, including tiny, weakly diffracting and air-sensitive materials.

Science faculty members in the Hudson Valley who are interested in using the new instrument to obtain X-ray crystal structures in support of their research should contact Dr. Joe Tanski (845-437-7503, jotanski@vassar.edu) for more information.

Dutchess County Regional Science Fair Results

The Annual Dutchess County Regional Science Fair was held on Saturday, April 1, 2006 at Casperkill. Several members of the Mid-Hudson Section assisted in judging those exhibits related to the study of chemistry. The Section presents special awards to those students who are deemed best able to demonstrate the understanding of their subject matter and are creative, thorough and clear in their presentation. In addition to asking questions on their current work, many of the judges gave the students ideas on ways to delve even deeper into their research. The group reviewed over 50 projects. Below are the names of this year's winners and judges. Special thanks to those who volunteered their time on a Saturday to spend a few hours with some future scientists!

Judges: Peggy Frisch, Sarjit Kaur, Tony Mitchell, Glenn Roy, Dominic Schepis, Patti Cusatis

OUTSTANDING

(\$50 gift card to Barnes and Noble and an ACS certificate)

Frank Valentino

(7th grade at St. Denis/St. Columba)

Does One Bad Apple Spoil the Whole Bunch?

SUPERIOR

(\$25 gift card to Barnes and Noble and an ACS certificate)

Martin Yu

(5th grade at Hagan Elementary School)

Heating, Freezing, Floating: Experiments with Substances Added

Joseph Tokarz

(5th grade at Kinry Elementary)

Changing Water Density

Dorothy Tai

(5th grade at Gayhead Elementary)

How Corrosive is Household Liquid? Should We Dump in the Sink?

Alanna Smith

(8th grade at St. Mary's, Fishkill)
Hydrogen Fuel Cells: Power of the Future

Caitlin Smart

(Roy C. Ketcham High School)
Toxic Teeth: Measurement of Mercury in Dental Fillings

Natascha Lamprecht

(6th grade at Dutchess Day School)
The Best Shortening for Peanut Butter Cookies

Zachary Kellerman

(7th grade at St. Mary's, Fishkill)
Metal Deterioration

HONORABLE MENTION

(ACS certificate)

Laya Varanasi

(8th grade at Wappingers Junior High School)
Natural Weed Killers

Gabrielle O'Donoghue

(5th grade at Holy Trinity)
I Need More Salt Mummy!

Kayla Every

(8th grade at St. Mary's, Fishkill)
A Dancing Spring in an Electrolyte Solution

Melissa Ercolino

(6th grade at St. Mary's, Fishkill)
Melt Down



NATIONAL CHEMISTRY WEEK 2006 OCTOBER 22-28

The mission of National Chemistry Week is to reach the public, particularly elementary and secondary school children, with positive messages about chemistry:

- to make a positive change in the public's impression of chemistry;
- to promote a mechanism for effectively mobilizing ACS local sections; and
- to motivate the ACS membership through local section activities.

National Chemistry Week is October 22 – 28, 2006. There will be several local activities to help celebrate NCW, but we need your help. **VOLUNTEERS ARE NEEDED!!!** Please get involved and enjoy a fun week of chemistry! You can volunteer by contacting the hosts listed for each activity.

EDUCATORS!

Find important information about National Chemistry Week connections to chemistry and alignment to the National Science Education Standards at www.chemistry.org/ncw.

Events for NCW 2006 include:

Family Night (Three Locations): A chance for families to get together for fun activities and demonstrations at local venues. Space is limited to 50 kids per site - **reservations are mandatory!** To make a reservation and get more information about the activities planned, please contact the host listed for your location. Beverages and snacks will be served. Door prizes! Several experiments will be demonstrated and kids will be able to do their own experimenting, too!

NCW 2006 Family Night Locations and Dates:

- **Thursday, October 19 – Orange County:** Mount Saint Mary College (Newburgh), Host: Lynn Maelia, 845-569-3131 or maelia@msmc.edu; Directions: From I-84, take 9W South exit (near Newburgh-Beacon Bridge). South of the I-84 overpass, take first left (traffic light) onto North Plank Road. Take first right (traffic light) onto Powell Ave. Enter campus on left.
- **Thursday, October 26 - Ulster County:** SUNY New Paltz, Coykendall Science Building, Host: Dan Freedman, 845-257-3795 or freedmad@newpaltz.edu; Directions: Take I-87 to Exit 18 and turn left at the traffic light after the toll plaza (Rte. 299). From Rte. 299, turn left at the third traffic light onto S. Manheim Blvd. (Rte. 32 South). Turn right onto Mohonk Ave. East.
- **Thursday, October 26 - Dutchess County:** Marist College, Donnelly Hall (Poughkeepsie), Host: Neil Fitzgerald, 845-575 3000 ext. 2491 or neil.fitzgerald@marist.edu; Directions: The college is located at 3399 North Road, just off Rte. 9, approximately 1 mile north of the Mid-Hudson Bridge.

Chemistry College Bowl, Tuesday, October 24:

Vassar College (Poughkeepsie), 7PM, Mudd Chemistry 3rd Floor; Contact Joe Tanski at 845-437-7503 or jotanski@vassar.edu. Beverages and dessert will be served. Door prizes. **TEAMS OF 4 MUST ENROLL BY 10/13.** Singles may be teamed with other singles- call for a team assignment. Participation is for college students only, but others may join in the fun as spectators. Directions: From NYS Thruway Exit 18 (New Paltz) take 299 East. Turn right onto 9W South. Take exit for Mid-Hudson Bridge into Poughkeepsie. Take Rte. 44/55 East. Turn right onto Raymond Ave. Enter campus on left.

Magic Show, Wednesday, October 25: Vassar College (Poughkeepsie), 3:30PM, Mudd Chemistry 3rd Floor; Contact Joe Tanski at 845-437-7503 or jotanski@vassar.edu. Refreshments and door prizes. An after-school chemical demonstration for kids (especially ages 8-14 years) and their friends and families. Directions: See *College Bowl* above.

(Please Post)



NATIONAL CHEMISTRY WEEK 2006

POSTER CONTEST

“YOUR HOME – IT’S ALL BUILT ON CHEMISTRY”



As part of the National Chemistry Week 2006 celebration and in recognition of its theme, "Your Home – It's All Built on Chemistry", the American Chemical Society is sponsoring a poster contest for elementary, middle, and high school students!

Students are invited to create a poster that will serve as a public service announcement emphasizing the role of science/chemistry in the home and/or home safety improvements over the years (e.g. building materials, materials of which homes are made, home safety through chemistry, homes from different periods in history and different cultures, homes that use green chemistry in their design and function). Participants should create a poster that has a "chemistry/science in homes" message for the general public.

The Mid-Hudson ACS local section invites you to participate in the 2006 NCW unifying event - a national poster contest for K-12 students - by participating in the event at the local level. We offer local section prizes as well as the opportunity to represent our region at the national level.

Winners will be selected in each of the following categories and receive prizes:

K – 2nd grade
3rd – 4th grade
5th – 8th grade
9th – 12th grade

Entry Guidelines:

- All entries must be original works without aid from others.
- Posters must be no larger than 14 x 22 inches in size.
- Entries on foam board will not be accepted.
- Entries must be drawn using crayons, paint, colored pencils or markers.
- Only one entry per student will be accepted and must be postmarked or hand delivered by **10/23/2006**.
- All entries must have the following information included on the back of the poster: Mid-Hudson, student's name, grade, name of school, school address, teacher's name, school telephone number and teacher's email address (optional but appreciated).
- Draw and illustrate the NCW theme.
- Entries will be judged based upon: originality, creativity, relevance and incorporation of the NCW theme, visual impact, and neatness.
- Submit your entry postmarked by **10/23/2006** and send to: **Lynn Maelia, Mt. St. Mary College, 330 Powell Ave, Newburgh, NY 12550**. ACS is not responsible for lost or damaged shipments.
- All posters become the property of the American Chemical Society.
- First Place posters will be submitted by the Mid-Hudson section to the National ACS in Washington, D.C. and will be displayed during the 233rd ACS National Meeting in Chicago, IL, March 25 – 29, 2007. First and second place winners will be selected for each grade category during this meeting. Winners will be notified by April 15, 2007. (Prizes: 1st Place- \$200 gift certificate to amazon.com; 2nd Place- \$100 gift certificate to amazon.com.)
- Acceptance of prizes constitutes consent to use winners' names, likenesses and entries for editorial, advertising and publicity purposes.

For additional information about the contest, contact the American Chemical Society, Office of Community Activities at 800-227-5558, ext. 6097 or e-mail ncw@acs.org.



Mary Dery, Ph.D.
President



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