

# Mid-Hudson Chemist



October 2015

## Celebrate National Chemistry Week

October 18-24!

### Local Events

#### Vassar College

Event: College Bowl

Day/Time: Wednesday, October 21<sup>st</sup> at 7 PM

Contact: Joe Tanski ([jotanski@vassar.edu](mailto:jotanski@vassar.edu))

#### SUNY New Paltz

Event: Family Mole Night

Day/Time: Friday, October 23<sup>rd</sup> at 5:30 PM

Contact: Laura Silvernail ([silvernl@newpaltz.edu](mailto:silvernl@newpaltz.edu))

#### Mount Saint Mary College

Event: Family Night

Day/Time: Friday, October 23<sup>rd</sup> at 7 PM

Contact: Lynn Maelia ([lynn.maelia@msmc.edu](mailto:lynn.maelia@msmc.edu))

#### Marist College

Event: Family Night

Day/Time: Wednesday, November 4<sup>th</sup> at 7 PM

Contact: Jocelyn Nadeau ([jocelyn.nadeau@marist.edu](mailto:jocelyn.nadeau@marist.edu))

#### SUNY Orange

Event: Family Mole Night

Day/Time: Friday, November 6<sup>th</sup> at 6:30 PM

Contact: Timothy MacMahon ([timothymacmahon@sunyorange.edu](mailto:timothymacmahon@sunyorange.edu))

## UPCOMING TALKS

ENZYMES: THE CHEMISTRY OF LIFE AND TARGETS FOR NEW MEDICINES

SPEAKER: DR. VERN SCHRAMM, *ALBERT EINSTEIN COLLEGE OF MEDICINE*

PLACE: SUNY NEW PALTZ

DATE & TIME: OCTOBER 20, 5 PM

PLEASE SEE ANNOUNCEMENT ON P.3.

COLOR YOUR WORLD WITH EFFECT PIGMENTS

SPEAKER: CHARMAIN HOFFSTEAD-FORDYCE, *BASF*

PLACE: MOUNT SAINT MARY COLLEGE

DATE & TIME: NOVEMBER 19, 7 PM

PLEASE SEE ANNOUNCEMENT ON P.4.



## 2015 Executive Committee:

**Chair:** William Maelia; **Chair-Elect:** Marianne Scheffler; **Past Chair:** Cynthia MacMahon; **Treasurer:** Joan Skinner; **Secretary:** Jocelyn Nadeau; **Councilor:** George Ruger; **Alternate Councilor:** Timothy MacMahon; **Members-at-Large:** Joseph Tanski, Patti Cusatis, Neil Fitzgerald; **NCW Co-Chairs:** Cynthia MacMahon and Timothy MacMahon; **Science Olympiad Chair:** Lynn Maelia; **Awards Co-Chairs:** Patti Cusatis Lynn Maelia, and Marianne Scheffler; **Government Affairs Chair:** George Ruger; **WCC Chair:** Lynn Robinson; **YCC Chair:** Michelle Robinson; **Publicity Chair:** Chet Dziobkowski; **Webmaster:** William Maelia; **Mid-Hudson Chemist Editor/Publisher:** Gissel Mentore

### Mid-Hudson ACS Website:

[www.midhudsonacs.org](http://www.midhudsonacs.org)

### ~Join the Mid-Hudson ACS Discussion List~

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

[lists.msmc.edu/mailman/listinfo/acs-mh](http://lists.msmc.edu/mailman/listinfo/acs-mh)

To post a message to all the list members, send e-mail to [acs-mh@lists.msmc.edu](mailto:acs-mh@lists.msmc.edu).

## Call for Candidates for the Mid-Hudson Section Executive Board

Once again it is time to elect the executive board members for 2016, and we would like to invite any section members interested in serving on the board to put their names on the ballots.

Positions open for election are:

**Chair-Elect, Treasurer, Secretary, Alternate Councilor, and Member-at-Large.**

To have your name placed on the ballot for consideration, please contact Jocelyn Nadeau (current Secretary, [Jocelyn.Nadeau@marist.edu](mailto:Jocelyn.Nadeau@marist.edu)) by November 2, 2015. For nomination purposes, all candidates are required to provide a short bio for the ballot.

## Hudson Valley Science Café

A Science Café is a monthly gathering in a café, pub or restaurant, 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 usually meets on the 4<sup>th</sup> **Wednesday** of the month, from April to November, except where indicated.

### Website:

[http://www.cafescientifique.org/index.php?option=com\\_content&view=article&id=196:HUDSON-VALLEY&catid=78:cafe-pages](http://www.cafescientifique.org/index.php?option=com_content&view=article&id=196:HUDSON-VALLEY&catid=78:cafe-pages)

**Meeting site:** La Casa Vicina, 1015 Little Britain Road (Route 207) in New Windsor. Website:

[LaCasaVicina.com](http://LaCasaVicina.com). Please arrive around 6 PM if you want to order dinner. There will be a special menu and you can order until 6:45 PM. The \$4.00 admission fee includes coffee or tea. No orders will be taken during the presentation (7:00-7:30 PM).

**October 28** – *The Natural Lifetime of Ideological Regimes*, G. David Mendenhall, Ph.D., retired Professor of Chemistry, Michigan Technological University, current president of Eastern Sources, Inc., a specialty chemical company.

**November 18 (3rd WEDNESDAY)** – *There's a Fungus Among Us: The Science of Yeast and Fermentation*, Evan Merkhofer, Ph.D., Assistant Professor, Mount Saint Mary College

**Winter Break is December through March. Please send suggestions for 2016 speakers to Dr. Toby Rossman ([tobyrossman@yahoo.com](mailto:tobyrossman@yahoo.com)).** Hudson Valley Science Café has received start-up funds from WGBH-NOVA and the American Chemical Society.



**SUNY New Paltz Harrington STEM Lecture:  
"Enzymes: The Chemistry of Life and  
Targets for New Medicines"**

The 2015-16 Harrington STEM Lecture Series continues Tuesday, October 20<sup>th</sup> with Vern Schramm, Professor & Ruth Merns Chair of the Albert Einstein College of Medicine, who will give a talk entitled "Enzymes: The Chemistry of Life and Targets for New Medicines."

Life in humans depends on coordinating thousands of biological chemistry reactions inside of cells each too small to see with the eye. These reactions depend on the enzymes made from proteins found in all cells. Enzymes make reactions occur trillions of times faster in human cells than in test tubes. The secret of this incredible power of enzymes comes from fast protein motions that occur to enclose the biological chemicals and even faster motions to make chemical changes occur. The advent of the fast computing now permits us to understand the transition state and the protein motions that contribute to the incredible efficiency of enzymes. What good is all of this knowledge to understand transition states? Many human diseases, including cancer, infections, and metabolic diseases have enzymes at their core. Knowledge of enzyme transition states provides chemistry blueprints for the design of new medicines, some of the most powerful the world has ever known.

This lecture will take place at 5 PM in the Coykendall Science Building Auditorium. There will be a light reception in the CSB lobby at 4:30 PM. The event is free and open to the public. Please visit <http://www.newpaltz.edu/about/directions.html> for directions.

**Date & Time**

Tuesday, October 20, 2015, 5:00 PM

**Audience**

Public

**Sponsored By**

School of Science & Engineering, SUNY  
New Paltz

**Location**

Coykendall Science Building Auditorium,  
SUNY New Paltz

**Contact**

Diego Dominici  
(845) 257-2607

[dominicd@newpaltz.edu](mailto:dominicd@newpaltz.edu)

**Web Site**

[http://www.newpaltz.edu/sse/colloquium\\_series.html](http://www.newpaltz.edu/sse/colloquium_series.html)

**Celebrate National Chemistry Week!**



**October 18 – 24, 2015**

**Chemistry Colors Our World**

**Spring 2016  
Sabbatical Replacement**

The Chemistry Department at SUNY New Paltz seeks applicants for a one-semester position in the field of organic chemistry or organic chemistry and biochemistry with a start date of January 20, 2016. Teaching responsibilities will include either lecture courses in organic chemistry or a lecture course in the biochemistry of metabolism and laboratory sections of organic chemistry. Weekly office hours and the grading of homework and exams will be required. A Ph.D. in chemistry is required and post-doctoral or teaching experience is preferred. We seek candidates who are committed to teaching, mentoring, and inspiring students from diverse backgrounds.

Electronic submissions are required. Please apply by visiting <https://jobs.newpaltz.edu/>. Candidates will be required to submit a cover letter, CV, one page teaching philosophy, copies of undergraduate and graduate transcripts and the contact information of two professional references who will submit letters of recommendation. Individuals with disabilities who need assistance with the application process should call (845) 257-3675. Applications will be accepted until the position is filled. Please contact Dr. Pamela St. John ([stjohnp@newpaltz.edu](mailto:stjohnp@newpaltz.edu)) with any questions.

The Mid-Hudson Section of the American Chemical Society Announces:

## Color Your World With Effect Pigments

**Speaker:** Charmain Hoffstead-Fordyce  
Research Chemist, BASF Corporation

**Time:** Thursday, November 19<sup>th</sup> at 7 PM (Refreshments at 6:30 PM)

**Location:** Mount Saint Mary College, Newburgh, NY

**About the Lecture:** Pearlescent, iridescent, and reflective effects have been known in nature in the forms of fish scales, sea shells, bird feathers, and polished gold and silver. Effect materials are pigments that generate angular-dependent color. They differ from classical pigments in morphology and generate color as well as effects. Synthetic effects based on coatings were originally developed to simulate the luster of a pearl. The same thin film interference effect that is behind the colors in a soap bubble is the basis for color in effect materials. White light beams reflected from the front and back surfaces of a thin parallel film constructively or destructively interfere to produce a color. Synthetic effect materials have evolved over the years from platy crystals to single layer metal oxide coating, such as  $\text{TiO}_2$  and  $\text{Fe}_2\text{O}_3$  on platy substrates, and further to very complex multilayer structures. The standard thin film deposition technology is aqueous precipitation. High performance effects and innovative materials are synthesized using multilayer structures. Incorporating the different technologies of effect materials allows for the introduction of new products to meet market needs in cosmetics and personal care, industrial coatings and plastics, and automotive color coats.

**About the Speaker:** Charmain Hoffstead-Fordyce is a research chemist in the Effect Materials Research Group at BASF Corporation. Her responsibilities involve developing new/next generation fine particle decorative products and associated technology. Her role also includes seeking out technologies to be used as platforms for new products. She designs and performs experiments for the development of new products and technically assess and characterize products under development. Charmain has worked with BASF for over 9 years where she has been involved in the development of numerous products within the BASF Effect Pigment portfolio. Prior to joining BASF Charmain worked as a high school chemistry teacher. She holds a BS degree in Chemistry from CUNY and a Master of Business Administration degree from Mount Saint Mary College.

**For directions to Mount Saint Mary College, please visit [www.msmc.edu/About MSMC/Our Location](http://www.msmc.edu/About_MSMC/Our_Location) .**  
Contact: Lynn Maelia, [lynn.maelia@msmc.edu](mailto:lynn.maelia@msmc.edu)

# National Chemistry Week 2015 Illustrated Poem Contest: “Chemistry Colors Our World”

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

Contest Deadline: Please send the poems to be received by October 30, 2015

Prizes: Barnes and Noble giftcards

Contact: Lynn Maelia, Mount Saint Mary College, 330 Powell Avenue, Newburgh, New York 12550.  
lynn.maelia@msmc.edu (or 845-569-3131) for more information

Winners of the Mid-Hudson illustrated poem contest will advance to the ACS National Illustrated Poem Contest!

Write and illustrate a poem using the NCW theme, “**Chemistry Colors Our World**”. 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**

**Participants are encouraged to explore topics related to:**

- Dyes and pigments
- Absorbed and reflected light
- The chemistry of fireworks
- Natural and artificial colors
- Any other relevant topics

**Entries will be judged based upon:**

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

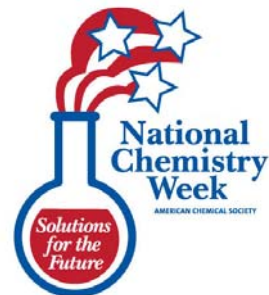


**Contest Rules:**

- 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 NCW 2015 theme, “**Chemistry Colors Our World**”.
- 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.



**National Chemistry Week (NCW) 2015  
"Chemistry Colors Our World"**

**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 the Mid-Hudson Local Section Contest is October 30, 2015.

Student's Name							
Grade							
Parent's or Guardian's Name							
<b>School or sponsoring group:</b> <i>(e.g. Boys and Girls Club or Scout Troop, 4-H, etc.)</i>							
Teacher's Name							
Teacher's Email							
School Address							
School Address Line 2							
City				State		Zip	
<b>Judging Category</b>							
K-2 <sup>nd</sup>	<input type="checkbox"/>	3 <sup>rd</sup> -5 <sup>th</sup>	<input type="checkbox"/>	6 <sup>th</sup> - 8 <sup>th</sup>	<input type="checkbox"/>	9 <sup>th</sup> - 12 <sup>th</sup>	<input type="checkbox"/>
<b>FOR LOCAL SECTION USE ONLY</b>							
Local Section Name (Number)		Mid-Hudson (106)					
NCW Coordinator Name		Lynn E. Maelia					
Coordinator Email		Lynn.maelia@msmc.edu					