

# THE Indicator

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**Mr. Frank R. Romano**  
**2010 New York Section Chair**

**NOTE:** See the note on page 7 explaining our migration to electronic distribution.

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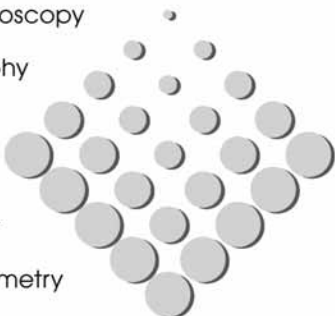
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**THE Indicator**

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March	January 15, 2010
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January 2011	November 15, 2010

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Address advertising correspondence to Advertising Manager. Other correspondence to the Editor.

# January Calendar

## NEW YORK SECTION

Thursday, January 7, 2010

Chemical Marketing & Economics Group

See page 13-14.

Saturday, January 16, 2010

New York Sectionwide Conference

See page 12.

Tuesday, January 26, 2010

Biochemical Topical Group

See page 14.

Friday, January 29, 2010

HSTTG

See pages 14-15.

## NORTH JERSEY SECTION

Thursday, January 8, 2010

Careers in Transition

See page 7.

Thursday, January 7, 2010

Teacher Affiliates Executive Committee

See page 7.

Tuesday, January 12, 2010

ChemTAG

See page 8.

Thursday, January 28, 2010

MetroWomen Chemists

See page 8.

Monday, January 25, 2010

NoJ Executive Committee

See page 7.

**The Indicator is posted to the web  
on the 15th of the previous month at  
[www.TheIndicator.org](http://www.TheIndicator.org)**

**Deadline for items to be included in the  
March 2010 issue of *The Indicator*  
is January 15, 2010.**

**A Happy and  
Peaceful New Year  
to All!**



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## **THIS MONTH IN CHEMICAL HISTORY**

*By Harold Goldwhite, California State University, Los Angeles*  
[hgoldwh@calstatela.edu](mailto:hgoldwh@calstatela.edu)

Among the sources I often consult for subjects for my columns is the book "Essays in Historical Chemistry" by Sir Edward Thorpe; my copy is dated 1911 and was published by Macmillan in London. As I was looking it over it occurred to me that I knew nothing about the author himself. A little research led me to the obituary notices of the Royal Society, and this sketch of Edward Thorpe's distinguished career is drawn from information in the "Obituary Notices of Fellows Deceased" of the Royal Society for 1925.

Thorpe was born in December 1845 in a small town near Manchester, England where his father was a cotton merchant. He attended Hulme Grammar School and then Owens College, which developed into Manchester University. (Personal note: I was on the faculty of the University of Manchester Institute of Science and Technology from 1958 to 1962, and we always referred to the central facility of the University, which was situated a couple of miles away, as "Owens". At Owens Thorpe worked with the distinguished inorganic chemist Henry Roscoe on photochemistry and on the chemistry of vanadium. There followed the almost obligatory pilgrimage to Germany. At Heidelberg, under the tutelage of Bunsen, he worked on the remarkable liquid alloy of sodium and potassium, the subject of his Ph.D. thesis. He lodged in the same building as Victor Meyer, who was also working with Bunsen, and they became close friends.

From Heidelberg he moved to Bonn to work with Kekule and they published in 1869 a paper on ethylbenzoic acid. Returning to Manchester he continued to collaborate with Roscoe and they jointly published two papers on photochemistry in 1870. As an up-and-coming young chemist it was not surprising that Thorpe was chosen for the Professorship in Chemistry at the Andersonian College of Glasgow, Scotland in 1870 and in that same eventful year he married Caroline Emma Watts. At Glasgow Thorpe published several papers: on a new oxychloride of chromium; on phosphorus chlorides; on the constitution of paraffin; and on the interaction between carbon tetrachloride and phosphorus pentasulfide. His work on chemical effects of light led to his going on an expedition to observe a total eclipse of the sun in Sicily to be observed on December 22, 1870. Sadly the ship was wrecked on the voyage from Naples to Sicily on December 15, but without loss of life.

Thorpe was "called" to the Professorship of Chemistry at the Yorkshire College of Science in Leeds (later Leeds University) in 1874 and worked there for 11 years. He turned to physico-chemical research on specific volumes of related liquid compounds and was elected a Fellow of the Royal Society in 1876. He made a successful trip to Colorado in July 1878 to observe the solar eclipse, and then began a series of magnetic observations, in collaboration with a physics colleague at Leeds, Professor Arthur Rucker. These included measurements along the 40th. parallel of the U.S. from the East Coast to the Great Salt Lake; in the Azores; and then a complete survey of terrestrial magnetism in the British Isles which was eventually published as a complete volume of Philosophical Transactions in 1896.

Thorpe was picked to succeed Sir Edward Frankland in 1885 as Professor of Chemistry at what was then the Normal School of Science and Royal School of Mines in South Kensington, London – later known as Imperial College of Science and Technology of the University of London. In the next column I will complete my discussion of the career of this distinguished chemist.

## **JANUARY HISTORICAL EVENTS IN CHEMISTRY**

*By Leopold May, The Catholic University of America, Washington, DC*

### **January 1, 1998**

Rhodia was established from the merger of Rhône-Poulenc's divisions of chemicals, fibers and polymers on this date. It was originally founded as the Société Chimique des Usines du Rhône in 1895.

### **January 3, 1871**

Henry Bradley, Binghamton, NY, was granted the first patent on oleomargarine (U.S. Patent No. 110,626) on this date.

### **January 5, 1943**

George W. Carver died on this day. He isolated and synthesized over 400 products from peanuts and sweet potatoes.

### **January 9, 1922**

H. Gobind Khorana, first to synthesize an artificial gene, was born on this date. He did research on the interpretation of genetic code and protein synthesis function. In 1968, he shared the Nobel Prize in Physiology or Medicine with Marshall W. Nirenberg and Robert W. Holley for their interpretation of the genetic code and its function in protein synthesis.

### **January 12, 1579**

Jan Baptist Van Helmont, born on this date, was an alchemist who proposed two basic elements, air and water. He was a founder of pneumatic chemistry and coined the term "gas."

### **January 14, 1910**

One hundred years ago on this date, Jacob Volhard died on this date. He did organic synthesis, including creatine, brominated organic acids, and thiophene compounds. He was born on June 4, 1834.

### **January 15, 1785**

Two hundred and twenty-five years ago, William Prout was born on this date. He suggested that all atomic weights were multiples of weight of hydrogen (Prout's Hypothesis) and identified hydrochloric acid in the stomach.

### **January 16, 1817**

Thomas Antisell, the first president of the Chemical Society of Washington, was born on this day.

### **January 17, 1910**

One hundred years ago on this date, Frederich W. G. Kohlrausch died. He was a researcher on electrical conductivity, dilution of strong electrolytes and conductivity (Kohlrausch's equation). October 14, 1840 was his birthdate.

### **January 19, 1885**

One hundred and twenty-five years ago, Harry L. Fisher, who was an inventor in field of rubber technology and synthetic rubber, was born on this date.

### **January 22, 1917**

William D. McElroy, who discovered the enzyme that makes fireflies glow (while he was at Johns Hopkins University, where he served as Chairman of the Biology Department), was born on this day. He was also the head of the National Science Foundation from 1969 to 1972.

### **January 23, 1929**

John C. Polanyi, who did research using infrared chemiluminescence to follow the excited reaction products, was born on this day. He shared the Nobel Prize with Dudley R. Herschback and Yuan T. Lee in 1986. Lee for their contributions concerning the dynamics of chemical elementary processes.

### **January 24, 1935**

Beer was first sold in cans on this day.

### **January 25, 1917**

Ilya Prigogine, a researcher in irreversible processes, was born on this date. He was awarded the Nobel Prize in Chemistry in 1977 for his contributions to non-equilibrium thermodynamics, particularly the theory of dissipative structures.

### **January 29, 1838**

Edward Morley was born on this day. He performed ether drift experiments with Albert A. Michelson and made extremely accurate determination of the combining weights of hydrogen and oxygen.

### **January 30, 1891**

Harold Booth, who was a researcher in inorganic chemistry, particularly with fluoride gases, was born on this date.

Additional historical events can be found at Dr. May's website, [faculty.cua.edu/may/history.htm](http://faculty.cua.edu/may/history.htm).

## **ERRATA**

In the December issue, an error was made in the item on Heyrovsky as the year for receiving the Nobel Prize was given as 1869. It should have been 1959.

## North Jersey Meetings

<http://www.njac.org>

### NORTH JERSEY EXECUTIVE COMMITTEE MEETING

Section officers, councilors, committee chairs, topical group chairs, and section event organizers meet regularly at the Executive Committee Meeting to discuss topics of importance to running the section and representing the membership. All ACS members are welcome to attend this meeting and to become more involved in section activities.

**Date:** Monday, January 25, 2009

**Time:** 6:00 PM

**Place:** Rutgers University  
Wright-Rieman Labs, Room 260  
Busch Campus, 610 Taylor Road  
Piscataway, NJ 08854

**Cost:** \$5.00 - pizza dinner

Directions can be found using mapquest and the address above. A map of the campus can be found at

<http://maps.rutgers.edu/maps/default.aspx?campus=4>.

Reservations: call (732) 463-7271 or email [njacsoffice@aol.com](mailto:njacsoffice@aol.com) prior to **Wednesday, January 20, 2010**.

**Dinner at the Section Meeting is payable at the door. However, if you are not able to attend and did not cancel your reservation, you are responsible for the price of your dinner.**

## TEACHER AFFILIATES

### Executive Committee Meeting

**Date:** Thursday, January 7, 2010

**Place:** Franklin Township High School  
(note change)  
500 Elizabeth Avenue  
Somerset, NJ 08873

**Contact:** Eve A. Krupka  
[eakrupka@optimum.net](mailto:eakrupka@optimum.net)



## CAREERS IN TRANSITION GROUP

### Job Hunting??

Are you aware that the North Jersey Section holds monthly meetings at Fairleigh Dickinson University in Madison to help ACS members? Topics covered at these cost-free workshops are:

- The latest techniques in resume preparation
- Ways for improving a resume
- Answers to frequently asked interview question and
- Conducting an effective job search

The next meeting for the Careers In Transition Group will be held **Thursday, January 8, 2010**, in the Rice Lounge on the first floor of the New Academic Building. The meeting will start at 5:30 PM and end at 9:00. There will be a Dutch-treat dinner. To get the most from the meeting, be sure to bring transparencies of your resume.

Please contact [vjkuck@yahoo.com](mailto:vjkuck@yahoo.com), if you plan on attending this meeting.

## THE INDICATOR MIGRATES TO E-DISTRIBUTION

Like nearly every ACS Section, North Jersey and New York are moving toward electronic distribution of their joint newsletter. We post each issue at [www.TheIndicator.org](http://www.TheIndicator.org) as a PDF file, and each section sends an email to all members with the link, when issues are posted. This surely conserves limited resources and saves trees, but it's also in line with how people receive information more generally these days.

For the present, we will continue mailing paper copies to people who request them, and to people whose current email addresses are not registered with ACS. Since we want to drastically reduce the number of paper copies, we kindly ask everyone to register their current email address – which you can do at this webpage: [www.acs.org/update](http://www.acs.org/update) (have your membership number handy). Or you can contact John Penna at 732-463-7271 or [NJACsoffice@aol.com](mailto:NJACsoffice@aol.com).

By the way, at [www.TheIndicator.org](http://www.TheIndicator.org) you can view and keyword-search through archived issues going back to 2004. And you can print paper copies for yourself from the PDF files, naturally.

**ChemTAG**

**Date:** Tuesday, January 12, 2010  
**Time:** 4:00 – 6:00 PM  
**Place:** Oak Knoll School of the Holy Child  
 44 Blackburn Road  
 Summit, NJ 07901

Contact: Irene Sawchyn:  
[irene.sawchyn@oakknoll.org](mailto:irene.sawchyn@oakknoll.org)



## **METRO WOMEN CHEMISTS COMMITTEE**

### **The Chemistry of Chocolate**

The Chocolate Path will provide a 9-flight chocolate tasting and will discuss the chemistry of chocolate!

**Date:** Thursday, January 28, 2010  
**Time:** 6:00 PM  
**Place:** The Chocolate Path  
 94 Walnut Street\*(New Location!!)  
 Montclair, NJ  
[www.chocolatepath.com](http://www.chocolatepath.com)

Cost: ~ \$25.

\*close to the Walnut Street train station

Please RSVP to Kelly George  
 ([Kelly.george@roche.com](mailto:Kelly.george@roche.com)) by **Friday,  
 January 22, 2010.**



## **NORTH JERSEY ELECTION RESULTS**

### **Chair-elect:**

Jiwen Chen  
 Mariann Neverovitch

### **Councilors:**

Susan Fahrenholtz  
 Maureen Chan  
 Michael Miller  
 Stan Hall  
 Diane Krone

### **Alternate Councilors:**

Cecilia Marzabadi  
 Ray Baylouny  
 Allene Johnson  
 Landon Greene  
 Amber Charlebois

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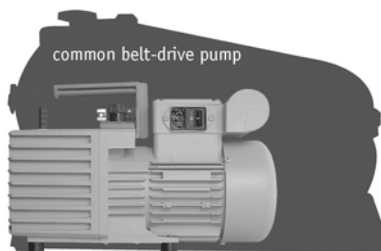
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## TEACHER AFFILIATES

### Reminder

The ACS-TA membership dues for 2010 remains \$15 per person. Please mail your check, made out to "ACS-TA," to:

David Lee  
ACS-TA Treasurer  
21 Jay Street  
Succasunna, NJ 07876

A membership form can be downloaded from the website:

[www.njacs.org/teacher.html](http://www.njacs.org/teacher.html)



## NORTH JERSEY SECTION — NATIONAL CHEMISTRY WEEK REPORT FOR 2009

"Chemistry...It's Elemental" was such a great theme that it generated a variety of activities for NCW in the North Jersey Section. Elements and their properties were the central theme for our Teacher Affiliate ChemTAG (Chemistry Teacher Alliance Group) consortium held in September. Two workshops on NCW were presented at our two-day NJ State Science Convention in early October where we did some hands-on activities and shared ways to celebrate within the classroom and how to volunteer for our major event, ChemExpo 2009, at Liberty Science Center.

North Jersey Section also participated in the National NCW Poster Contest. In addition to submitting posters to national ACS, our section awarded prizes to the top three designs in each of the grade categories and gave their sponsoring teachers gifts as well. The posters were judged by the NJACS Executive Committee and members of the Teacher Affiliate Group.

On October 24 we were at Liberty Science Center, Jersey City, for the 15th year to engage over 2000 visitors in chemistry experiments and activities made possible by the two hundred volunteers including Girl Scout troops, Cub Scouts, industrial chemists, pharmaceutical chemists, collegiate chemistry clubs and student members, high school and middle school teachers and their students, and SEED I and II students. NJACS Executive Board members were also there to greet guests and hand out NCW literature. This year visiting high school teachers were given copies of The

Merck Index, courtesy of Merck adding a wonderful touch to National Chemistry Week. It was an exciting time with lots of elemental learning and enthusiasm.

Students in many high schools did special experiments during this week. Some taught lessons for younger students and others designed useful and fun resources. At Manville High School students created a periodic table from their hand-made marbled element cards and at the Roxbury Library the librarian/ACS member gave elemental instruction as well. While demonstrating how to clean silver and copper at home, she also reviewed the properties of common elements and how iodine can be used to test for starch in household foods.

*(continue on page 10)*



*(Photos courtesy of Jeannette Brown)*

## **MORE SCENES FROM NORTH JERSEY NATIONAL CHEMISTRY WEEK CELEBRATION**



*(Photos courtesy of  
Jeannette Brown)*



*(Photo courtesy of Jyotsna Kuchibhatla)*

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## New York Chair's Message

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I would like to thank the members for giving me this opportunity to represent you as the American Chemical Society's New York Section Chair for 2010. I am looking forward to making 2010 another successful year for the New York Section. We have great volunteers, but there is always plenty to do. I extend an invitation to all our members to help contribute to our ongoing success. Our first event is the Section Conference which will be held at St. John's University. All members are invited to attend. This event includes a brief awards presentation to some of our outstanding members, followed by an invited speaker on a topic of current interest. Finally, we divide into interest groups and set the strategies for 2010. This is a perfect opportunity for individual members to have their voices heard!

With the help of our members, our programs are set up to serve our members, the scientific community and the general public. The New York Section is proud to continue to offer the following major events in our area:

The Section Conference, January 16, 2010, St. John's University, Queens, NY

The Nichols High School Teacher Award, January 16, 2010, Queensboro Community College

The Nichols Award and Symposium, March 5, 2010, Crown Plaza Hotel, Westchester, NY  
Chemistry Olympiad, February-March 2010, Various High Schools

The Undergraduate Research Symposium, May 8, 2010, Adelphi University

Chemagination (for High School Chemistry Students), May 2010, St. John's University

Frances Sterrett Environmental Symposium, May 20, 2010, Hofstra University

National Chemistry Week, Oct/Nov 2010, NY Hall of Science

Ask yourself, how can I become involved in such a successful organization? Not to worry, there are many opportunities for all members to give back to the Society by volunteering their expertise and time. Start by contacting your Subsection or Topical Group officers. They will be glad to welcome you onto their teams.

Don't know your Subsection? We currently have 6 Subsections that would be thrilled to have your help with their programs: Long Island, Westchester, Hudson-Bergen, Staten Island, Rockland and Brooklyn. I encourage members to get involved in their local Subsections. Please check out our website for details on all events and how to contact your local Subsection Chair. <http://newyorkacs.org/>

We also have Topical Groups that focus on various disciplines. The Topical Groups include: Analytical, Biochemistry, Chemical Marketing and Economics, Theoretical and Computational Chemistry, High School Chemistry Teachers, Inorganic and Organometallic, Metro Women Chemists, Nanotechnology, Organic, Retired Chemists, and Younger Chemists. Did we miss a Topical Group? Please let us know.

We are exiting a year where the tough economy has impacted businesses and jobs, which has affected some of our members. The ACS has several programs to assist members in finding new jobs. If you are unemployed, please ask us about special considerations.

One of the other advantages of being a member of the ACS is the ability to network with your colleagues. By attending local events you will have the opportunity to meet other chemists with similar interests. This is a good opportunity to share your successes.

Please feel free to send me your ideas and suggestions for programs and services you would like the New York Section to offer.

I can be reached at the following e-mail address: [chair2010@newyorkacs.org](mailto:chair2010@newyorkacs.org)

Best Regards,  
Frank Romano

2010 Chair, American Chemical Society's New York Section (NYACS)

## **AMERICAN CHEMICAL SOCIETY'S NEW YORK SECTION 2010 SECTION-WIDE CONFERENCE**

**Date:** Saturday, January 16, 2010

**Times:** 9:30AM – 1:00PM

**Place:** St. John's University, BentHall, Room 277, 8000 Utopia Parkway, Jamaica, NY

**Cost:** Free to all

### PROGRAM

9:30 AM **Arrival and Refreshments**

10:00 AM **Greetings from the 2010 Chair of the ACS  
New York Section.** Mr. Frank R. Romano

10:10 AM **Award Presentations.**  
Service Plaque and Pin to the 2009  
New York Section Chair Dr. Barbara R. Hillery

New York Section Outstanding Service Award  
for 2009 Dr. David M. Sarno

Nichols Foundation H.S. Chemistry Teacher  
Award for 2009 Mr. Steven Bornemen  
Byram Hills High School

10:30 AM **Report from the 2010 Elections Nominating  
Committee.** (Presentation of Candidates) Dr. Hiroko I. Karan,  
2010 Chair-elect of the  
ACS New York Section

10:45 AM **Keynote Presentation: An informative talk along with a question and  
answer session.** To be announced.  
Please visit <http://www.NewYorkACS.org> for more information.

11:45 AM **Coffee Break.** There will be poster presentations by the New York Section  
Project SEED and Chemagination Students.

12:00 PM **ACS, New York Section Committee Planning Sessions for 2010.**  
Educational Activities (Chemagination, Chemical Education, Continuing  
Education, High School Olympiad, National Chemistry Week, Nichols  
Foundation Teacher Award, Project SEED, Student Affiliate)  
*Chair:* Dr. Jill K. Rehmann

Member Affairs (Awards, Employment and Professional Relations, History  
of the New York Section, *Indicator*, Membership, Outstanding Service Award)  
*Chair:* Dr. Ralph Stephani

Program Review (Subsection and Topical Discussion Group Chairs)  
*Chair:* Dr. Anne T. O'Brien

Public Affairs (Academe and Industrial Relations, Environmental  
Chemistry, Fund Raising, Government Affairs, Information Technology,  
Public Relations, Speakers Bureau)  
*Chair:* Dr. Robert P. Nolan

12:45 PM **Reports from the Chairs of the Committee Planning Sessions.**

1:00 PM **Conclusion of the Meeting.**  
Join with colleagues for lunch at a local restaurant.

To inquire about the Section-wide Conference, please call the New York Section Office  
at 516-883-7510 or e-mail Marilyn Jespersen, Office Administrator, at:  
[njesper1@optonline.net](mailto:njesper1@optonline.net)

Directions are at: <http://www.stjohns.edu/about/general/directions/directions/queens>

Scientists, teachers and students of all levels are invited to participate. Hope you can  
attend.

## New York Meetings

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

### ACS NEW YORK SECTION MEETINGS FOR 2010

#### January 16 Section Wide Conference

March 5 William H. Nichols  
Distinguished Symposium  
and Medal Award Dinner  
Crowne Plaza Hotel  
White Plains, NY

The Board of Directors Meetings for 2010 are:

February 19	September 10
April 16	November 19
June 4	

The regular Board Meetings will be held at St. John's University, 8000 Utopia Parkway, Jamaica, NY, in the Library's Writing Center. They are open meetings and all are welcome.

For more information, please visit the New York Section website at <http://www.NewYorkACS.org>.

### CHEMICAL MARKETING & ECONOMICS GROUP

#### 2010 Petrochemical and Energy Forecast

Speaker: Dr. Fred Peterson  
President, Probe Economics LLC

Date: Thursday, January 7, 2010

Times: Cocktails 11:30 AM  
Luncheon 12 noon  
Presentation 1:15 PM

Place: Club Quarters  
40 West 45th Street  
New York, NY

Cost: \$45 for Members (and \$55 for  
Guests) who reserve by **Tuesday,  
January 5th**; \$65 for Guests and  
Members (at door without  
reservations)

To Reserve: Please reserve early to be eligible for the discount price. We now accept all major credit cards via PayPal ("Reserve Now" link on [www.nyacs-cme.org](http://www.nyacs-cme.org)), or call Vista Marketing at (917) 684-1659, or via E-mail to [cmegroup@mac.com](mailto:cmegroup@mac.com)

(continued on page 14)

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## **CHEMICAL MARKETING & ECONOMICS GROUP**

(continued from page 13)

### **Future Meetings:**

**“Global Pharmaceutical Forecast”**

**Date: Thursday, February 4, 2010**

\*\*\*\*\*

**“2010 Economic Forecast”**

**Date: Thursday, March 4, 2010**



## **NY BIOCHEMICAL TOPICAL GROUP — JOINT MEETING WITH THE NYAS BIOCHEMICAL PHARMACOLOGY DISCUSSION GROUP**

**Phosphodiesterase Targets for Cognitive Dysfunction and Schizophrenia**

*Organizers:* Lawrence P. Wennogle  
Intra-Cellular Therapies, Inc.

Peter Hutson  
Merck and Co., Inc.

*Speakers:* Ted Abel  
University of Pennsylvania

Joseph A. Beavo  
University of Washington

Nicholas Brandon  
Pfizer, Inc.

Richard Keefe  
Duke University Medical Center

Jos Prickaerts  
Maastricht University

Christopher J. Schmidt  
Pfizer, Inc.

Lawrence P. Wennogle  
Intra-Cellular Therapies, Inc.

H. Zhang  
West Virginia University  
Health Sciences Center

The symposium will focus on phosphodiesterase (PDE) inhibitors for schizophrenia and cognitive disorders and review the theoretical basis of different PDE isoforms as well as the progress towards human clinical testing of these agents.

Please note this is a full-day symposium.

**Date: Tuesday, January 26, 2010**

**Time: 9:00 AM – 5:00 PM**

**Place:** New York Academy of Sciences  
7 World Trade Center – 40th Floor  
250 Greenwich Street  
(at Barclay Street)  
New York, NY

Reserve a seat on-line at:

[www.nyas.org/events](http://www.nyas.org/events)

NYAS Members, BPDG Affiliates, and NY-ACS Members may attend BPDG meetings free of charge. Non-members may attend for a fee of \$20 per event; Student Non-members for \$10.

To become a Member of the Academy, visit [www.nyas.org/benefits](http://www.nyas.org/benefits)



## **HIGH SCHOOL TEACHERS TOPICAL GROUP**

**How to Move Toward Sustainable Energy**

*Speaker:* John Roeder  
Calhoun School  
New York  
[JLRoeder@aol.com](mailto:JLRoeder@aol.com)

British physicist David MacKay has distilled the energy consumed by each Briton into the number of kilowatt-hours per day per person for every energy-consuming activity and has stacked against this the number of kilowatt-hours per day per person which can be produced by renewable energy sources. MacKay proposes several models for achieving a state of supporting Britain's energy needs from sustainable sources; but, regardless of which one is chosen, he warns that BIG changes will be needed.

**Date: Friday, January 29, 2010**

**Time:** Social and Dinner — 5:45 PM

**Place:** M&G Pub (Murphy and Gonzales)  
21 Waverly Place (at Green Street,  
North-east corner)  
New York, NY

No reservations required

**Time:** Meeting 7:15 PM

**Place:** New York University  
Silver Center Room 207  
32 Waverly Place (South-east  
corner Washington Sq. East)  
New York, NY

Security at NYU requires that you show a picture ID to enter the building. In case of unexpected severe weather, call John Roeder, 212-497-6500, between 9 AM and 2 PM to verify that meeting is still on; 914-961-8882 for other info.

Note: Street parking is free after 6:00 PM. For those who prefer indoor attended parking, it is available at the Melro/Romar Garages. The entrance is on the west side of Broadway just south of 8th Street, directly across from Astor Place. It is a short, easy walk from the garage to the restaurant or meeting room.



## LONG ISLAND SUBSECTION

### Thirteenth Annual Frances S. Sterrett Environmental Chemistry Symposium

#### SAVE THE DATE!

The annual Frances S. Sterrett Symposium is dedicated to presenting the public with up-to-date, factual scientific information on environmental topics. Watch for updates at the New York section web site: [www.newyorkacs.org](http://www.newyorkacs.org).

**Date:** Thursday, May 20, 2010

**Times:** 8:30 AM – 2:00 PM

**Place:** Hofstra University



## LONG ISLAND SUBSECTION

### Seminar and Events Schedule for Spring 2010

#### I. Seminar Series

#### “Towards Acquisition of Activity-Based Biosensors and Small Molecule Inhibitors of Nek2 - A Kinase Implicated In Cancer”

*Speaker:* Dr. Sanjay Kumar  
Queens College, CUNY

**Date:** Thursday, February 11, 2010

\*\*\*\*\*

#### “Synthesis and Evaluation of OSI-930 Analogues for Tyrosine Kinase Inhibition and Reversal of ABCG2-Mediated Multidrug Resistance”

*Speaker:* Dr. Vijaya Korlipara  
St. John's University

**Date:** Thursday, March 11, 2010

\*\*\*\*\*

#### “Design of Fluorometric High-Throughput Screening Assays for Cytochrome P450s”

*Speaker:* Dr. Melissa Van Alstine  
Adelphi University

**Date:** Thursday, April 8, 2010

**Times:** Coffee Break 5:30 PM  
Seminar 6:00 PM

**Place:** Hofstra University  
Chemistry/Physics Building  
Lister Auditorium  
**Time:** Dinner 7:00 PM  
**Place:** Neighboring restaurant  
**Cost:** \$25.00

## II. Events

### The 10th LI-ACS Chemistry Challenge

**Date:** April (TBA)

**Place:** Queensborough Community College

\*\*\*\*\*

### Francis S. Sterrett Environmental Chemistry Symposium

**Date:** Thursday, May 20, 2010

**Place:** Hofstra University

[www.newyorkacs.org/meetings/Sterrett/sterrett.html](http://www.newyorkacs.org/meetings/Sterrett/sterrett.html)

\*\*\*\*\*

### LI-ACS High School Awards

**Date:** June (TBA)



## 58TH ANNUAL UNDERGRADUATE RESEARCH SYMPOSIUM

*Sponsored by:* The New York Chemistry Students' Association of the American Chemical Society's New York Section

The symposium provides an excellent opportunity for undergraduate chemistry students in the NY metropolitan area to present the results of their research. The program includes a keynote address, presentation of student papers (15 minute talks to small groups), followed by a luncheon.

Last year's URS, at Pace University in Pleasantville was a great success; we had over 120 presentations by students from all over the New York region. The keynote address was given by Dr. Michael Alekshun from Schering Plough.

For more information go to:

[http://newyorkacs.org/grp\\_students.html](http://newyorkacs.org/grp_students.html)

**Date:** Saturday, May 8, 2010

**Place:** Adelphi University

If you have any questions please contact:  
Alison Hyslop, Co-chair  
[hyslopa@stjohns.edu](mailto:hyslopa@stjohns.edu)

Sharon Lall-Ramnarine, Co-chair  
[slallramnarine@qcc.cuny.edu](mailto:slallramnarine@qcc.cuny.edu)

JaimeLee Rizzo, Co-chair  
[jrizzo@pace.edu](mailto:jrizzo@pace.edu)



**WILLIAM H. NICHOLS MEDAL  
DISTINGUISHED SYMPOSIUM AND AWARD BANQUET**



**Symposium: New Materials for Function: The Stuff That Dreams Are Made Of**

*Award Recipient:* Professor Tobin J. Marks  
Vladimir N. Ipatieff Professor of Chemistry  
Professor of Materials Science  
and Engineering  
Northwestern University

**Date: Friday, March 5, 2010**

Times: Registration 12:30 PM Registration  
Symposium 1:00 PM – 5:30 PM  
Reception 5:45 PM  
Award Dinner 6:45 PM

Place: Crowne Plaza Hotel, White Plains, NY



**PROGRAM**

1:00 PM	Welcome	Mr. Frank R. Romano 2010 Chair ACS, New York Section Agilent Technologies
1:05 PM	Opening of the Distinguished Symposium	Dr. Hiroko I. Karan 2010 Chair-elect ACS, New York Section City University of New York Medgar Evers College
1:15 PM	Nanowires as a Platform for Nanoscience and Nanotechnology	Professor Charles M. Lieber Dept. of Chemistry and Chemical Biology Harvard University
2:00 PM	Organic Electronics and Optoelectronics: Learning from Tobin	Professor. Mark A. Ratner Dept. of Chemistry and Materials Science and Engineering Northwestern University
2:45 PM	Molecular Design, Function, and Commercial Application of Shape Selective Catalysts for the Petrochemical Industry	Dr. David L. Stern ExxonMobil Refining & Supply Company
3:30 PM	Coffee Break	
4:00 PM	Synthesis and Use of 3-d Heterostructured Materials	Professor Galen D. Stucky Dept. of Chemistry and Biochemistry and Materials Department University of California Santa Barbara
4:45 PM	<b>Self-Assembly Processes for Fabricating Unconventional Organic, Organometallic, and Inorganic Electronic Circuitry</b>	<b>Professor Tobin J. Marks NICHOLS MEDALIST</b>
5:45 PM	Social Hour	
6:45 PM	William H. Nichols Medal Award Dinner	

More information regarding the Symposium is available on the New York Section's website at <http://www.NewYorkACS.org>

Tickets may be reserved using the following form:



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**RESERVATION FORM**

2010 WILLIAM H. NICHOLS DISTINGUISHED SYMPOSIUM & MEDAL AWARD BANQUET  
in honor of Professor Tobin J. Marks, Northwestern University

Return to: ACS, New York Section, c/o Dr. Neil D. Jespersen, Department of Chemistry,  
St. John's University, 8000 Utopia Parkway, Jamaica, NY 11439 (516) 883-7510

Please reserve \_\_\_\_\_ places for symposium & banquet at \$100/person ACS member  
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**RESERVATION DEADLINE: FEBRUARY 25, 2010** Check for \$ \_\_\_\_\_ enclosed

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**CHEMISTS TO CELEBRATE  
EARTH DAY 2010**

**“Plants – The Green Machines!”**

The ACS Office of Community Activities (OCA) would like to remind you that CHEMISTS CELEBRATE EARTH DAY (CCED) will be celebrated on April 22! The CCED theme for 2010 is “Plants - The Green Machines!” Hopefully you are planning to celebrate on campus anytime during the week of April 22nd. The 2010 CCED edition of Celebrating Chemistry will be available online through the CCED home page in late January. It will contain hands-on activities and articles geared for students in grades 4–6. The CCED Order Forms will also be primed and ready to receive your orders in early January. Email updates regarding the order form and other relevant CCED information will be on the way soon. So get a head start on planning your activities for Chemists Celebrate Earth Day 2010! Stay tuned to [www.acs.org/earthday](http://www.acs.org/earthday) for

updates and the latest information as CCED is soon approaching!



**EMPLOYMENT AND  
PROFESSIONAL RELATIONS  
COMMITTEE OF THE NEW  
YORK SECTION**

**To Human Resources Departments in  
Industry and Academia**

The Employment and Professional Relations Committee maintains a roster of candidates who are ACS members seeking a position in the New York metropolitan area. If you have job openings and would like qualified candidates to contact you, please send a brief job description and educational/experience background required to [hessytaft@hotmail.com](mailto:hessytaft@hotmail.com).

Candidates from our roster who meet the requirements you describe will be asked to contact you.

## NEW YORK SECTION — CHEM LUMINARY AWARDS

Since 1999, the American Chemical Society has honored the efforts of volunteer members through the Chemluminary Award Program. The awards recognize participants in ACS Local Sections and Divisions whose efforts have helped to achieve excellence. The awards presented at the 238th ACS Meeting in Washington D.C. recognized excellent programs held during 2008.

The New York Section was honored with the following Chemluminary Awards for year 2008 under the chairmanship of Dr. Marc Walters of New York University.

- \* The ACS Student Affiliates Chapter Interaction Award
- \* The Outstanding High School Student Program Award
- \* The Outstanding Regional Meeting Award (MARM)

Dr. Barbara Hillery, 2009 Chair of the New York Section, accepted the awards for the Section and extended a sincere thank you to all of the volunteers who contributed to the success of the ACS New York Section programs.

Following is a description of the activities that contributed to the awards. A description of the many other excellent events of the Section for 2008 can be viewed at <http://www.NewYorkACS.org> under Annual Reports.

### THE ACS STUDENT AFFILIATES CHAPTER INTERACTION AWARD:

The New York Section takes a very active role in the pre-professional development of its students who are Student Affiliates and members of Student Affiliate Chapters within the Section. The students are encouraged to participate in events that promote a positive feeling for the field of Chemistry. In October, under the guidance of faculty and industrial scientists, student affiliates from many of the Section's colleges and universities participated in the very well-attended NCW event at the New York Hall of Science, (co-ordinated by Mr. David Sherman of Pepsico). They organized hands-on-activities and led these activities for over 1200 guests. The student affiliates manned demonstration tables and ran their experiments more than 600 times for a very appreciative public. They assisted with hands on activities with the participants - many elementary and high school level children. Over 100 certificates of participation were given to affiliate students who participated in this exciting event.

Student affiliates and their advisors from St. John's University, Hofstra University and St. Joseph's College worked to develop the student affiliate program at the 2008 Middle Atlantic Regional Meeting. The planning began the year before when the St. John's Chapter applied for a grant to help fund the student program. With this grant, the students ran two sessions for students on Sunday. They worked with the Student Affiliate Committee of the NY Section to integrate their program with the Undergraduate Research Symposium. They also supported students with reduced fees for registration and for events such as the barbeque.

The New York Section invites Student Affiliates to the annual William H. Nichols Distinguished Symposium and Medal Award dinner. Here, they have the opportunity to



**Dr. Joseph Francisco (ACS President-elect), Dr. Barbara Hillery (2009 Chair of the New York Section), Dr. Bryan Balazs (Chair - 2009 Society Committee on Education)**

*(Photos courtesy of Joan Laredo-Liddell)*

experience a symposium of internationally known speakers and to meet professional scientists – even Nobel Laureates. The symposium and dinner present the opportunity to interact with other chemistry students and faculty from the Section. The students look forward to attending this significant event each year.

The New York Section encourages Student Affiliates to participate in arranging and running symposia. For example, the Student Affiliate Chapter of St. John's University, along with the Continuing Education Committee of the New York Section, presented a symposium on November 1 entitled "Photochemistry and Photophysics: Harnessing Light to Do Our Work." The Affiliates were responsible for advertising, registration and hospitality. The symposium was extremely well attended and efficiently run. Also, the Student Affiliates Chapter of Brooklyn College organized the annual NCW Brooklyn High School Chemistry that included a symposium, award program for high school students and a tour of the college laboratories. These activities are essential to the professional growth of our students

The New York Section is a sponsor of the Eastern Analytical Symposium and it encourages the Student Affiliates to attend. Many professors bring students from their analytical chemistry classes to spend a day or more at EAS. Here, they learn about the workings of a professional meeting. EAS is a continuing event, near to the NY Section, allowing for ease of transportation.

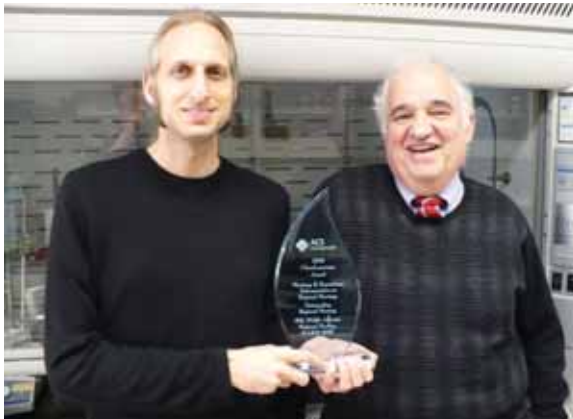
Most importantly, the New York Section's Student Affiliate Committee holds an annual Undergraduate Research Symposium for the Section's college students. In 2008, the 56th URS, (chaired by Drs. Jaime Lee Rizzo, Alison Hyslop and Sharon Lall-Ramnarine) was held during the Middle Atlantic Regional Meeting at Queensborough Community College, Bayside, NY. The Student Affiliates from QCC and other local colleges worked on the symposium as registration desk personnel, session moderators, projectionists, information providers and as help for the more than 100 students who gave oral research presentations. Each student worker, along with all student presenters, received award certificates and a memento. These were presented during a lunch and ice cream social offered to the student affiliates by the Section. The URS has been a tremendous learning experience for the undergraduate students.

#### **THE OUTSTANDING HIGH SCHOOL STUDENT PROGRAM AWARD:**

The New York section is very proud of its many volunteers who have, once again in 2008, produced a highly successful high school chemistry program for over 1000 students and their teachers. The major activities included: Project SEED, Chemistry Olympiad, the Chemagination Essay and Poster Contest, Brooklyn High School Chemistry Day, 14th High School Research Poster Session, Award Programs sponsored by Subsections, the Nichols Foundation High School Chemistry Teacher Award, eight meetings of the High School Chemistry Teachers Topical Discussion Group and the Chemists Celebrate Earth Day Contest. Descriptions of the activities follow.

*(continued on page 20)*

**Dr. David Sarno and Dr. Paris Svoronos (co-chairs OF MARM 2008) accept the Chemluminary Award for Outstanding Regional Meeting.**



## **CHEM LUMINARY AWARDS**

*(continued from page 19)*

### **Project Seed**

Over 100 students performed research at 20 different research centers in the tri-state Metropolitan area. Thirty students presented at the National Meeting of the ACS in Philadelphia at Sci-mix, and participated in the 40h Anniversary of Project SEED events. Ninety SEED students gave presentations at Seton Hall University, and four of the top five students in the competition hailed from the NY Section. The three students who represented NY and NJ at the National Science and Humanities Symposium in Florida were SEED students. Twenty six Project SEED students attended the Eastern Analytical Symposium in November and participated in the Forensic Science for children at NCW events. Every year, they display their posters at the NY Section's Section Wide Conference in January. The magnitude and impact of this program is enormous in large part due to the dedication and work of its moderator, Nadia Makar.

### **Chemistry Olympiad**

The New York Section has provided ongoing support for this program, which is integral to our outreach to area high school students. The Olympiad (organized by Dr. Stephen Goldberg) attracted 363 students from 56 different high schools in 2008. The local exam was administered on March 1 at 9 sites and March 2 at 2 sites. Twenty New York students were allowed to continue to the National Level exam. It was administered on April 12 and April 13 at SUNY Purchase College and Adelphi University. Of the 20 students who took the National Exam, six obtained honors and one obtained high honors. Anna Chithelen from Horace Mann High School, who obtained high honors on the national exam, was invited to attend the Study Camp. Also, in 2008, the NY Section Board voted to extend its financial support to the NY State Science Olympiad, to support the advancement of science throughout the state of New York.

### **Chemagination**

Chemagination is a science essay and poster contest for high school students, grades 9-12, that address the question: What innovation or breakthrough in the field of chemistry will be important in the lives of teenagers 25 years from now? There were several categories from which to choose from: Alternative Energy, Environment, Medicine/Healthcare and New Materials. The 5th Annual Chemagination contest of the New York Section was organized by Dr. Vijaya Korlipara and was hosted by the New York Section of the ACS at St. John's University on March 29. Students created poster presentations of their written articles. The written entries, 1000 words or less, were received through web submission and were readily accessed by the judges. The 2008 event drew 30 posters from 9 high schools and approximately 80 students participated in the event. Judging criteria included scientific thought, creativity, clarity, thoroughness, and teamwork. All participants were given certificates of participation. The first place winner in each category represented the NY ACS at the Regional level, at the Middle Atlantic Region Meeting held on May 17, 2008.

### **Brooklyn High School Chemistry Day**

The 22nd Annual National Chemistry Week Brooklyn High School Day was held at Brooklyn College on October 23, 2008. Approximately 250 high school students, chemistry student affiliates, and faculty attended the program that included demonstrations, tours of the laboratories, achievement awards, refreshments, and the 24th Annual H. Martin Friedman Lecture featuring MIT Chemistry Professor Daniel Nocera.

### **Fourteenth High School Research Poster Session**

The Brooklyn Subsection (chaired by Jill Rehmann) co-sponsored the 14th High School Research Poster Session that was held at St. Joseph's College on October 19, 2008. It was a joint effort with the Chemical Education Committee of the NY Section, chaired by Sr. Mary Maier. There were 51 poster presentations from 8 high schools. Two first place posters and two second place posters were honored with a certificate and cash prizes. Seven additional students were presented with honorable mention certificates. All presenters received certificates of participation. Dr. Jin Montclare of NYU Polytechnic University presented the keynote address.

### **Achievement Awards To High School Students**

The subsections of the New York Section are dedicated to recognizing the achievements of chemistry high school students living in their subsection by presenting certificates and holding award dinners. The Brooklyn subsection presented awards to high school students as one of the major activities of Brooklyn High School Chemistry Day in October 2008. The Long Island Subsection recognized the achievements of 85 high school students with personalized certificate plaques and an award dinner. The Staten Island Subsection held its Outstanding High School Student Award Night on November 11 at Wagner College. Sixteen high school students were recognized for their achievements in the study of chemistry. For students attending schools that are not located within subsections, ex. Bronx and Manhattan schools, the Awards Committee sent certificates to these schools following a mailing requesting nominations. Twenty-five certificates were sent to 19 High Schools in the Bronx and Manhattan areas of the New York Section. The Achievement Awards provide an additional mechanism to spur our high school students to excellence in chemistry.

### **Nichols Foundation High School Chemistry Teacher Award**

The New York Section has presented the Nichols Foundation High School Chemistry Teacher Award annually since 1958. The 2008 awardee was Aparna Subramanian of Staten Island Technical High School. She was selected for the award because, in the words of her advisor, "Aparna is an educator who had taken the Art and Science of Teaching to new levels of innovation and engagement through the implementation of the most cutting-edge and hands-on activities ever brought to the high school science classroom." Aparna was presented with \$1000 and an ACS award plaque at the Sectionwide Conference in January 2009.

### **High School Chemistry Teachers Topical Group**

The High School Teachers Topical Group (co-chaired by Jean Delfiner and Joan Laredo-Liddell) met eight times in 2008. The choice of topics for the Group included cutting edge technology, educational techniques and demonstrations. The HS Topical Group invited members of the Physics Club of NY and the Biology Teachers Association of NYC to the meetings. The average attendance was 30 to 50 depending on the topic. The benefits of the High School Teachers topical group are self-evident. Such a group serves as an engine of innovation where creative teachers come to learn and discuss ideas for science instruction.

### **Chemists Celebrate Earth Day Contest**

High schools in the New York Section were encouraged to participate in the three line Haiku poem contest sponsored by the ACS in recognition of Earth Day in April with the theme: Streaming Chemistry. The New York Section is honored to have a First Place Honorable Mention winner in the 9-12th grade category – from Shelter Island High School, Shelter Island NY. The contest was co-ordinated by Mrs. Joan Laredo-Liddell. We urge our students to develop a world view of chemistry. The Earth Day celebration is one way to instill the idea that we do our best work when we work selflessly, with the world and its citizens in mind.

### **THE OUTSTANDING REGIONAL MEETING AWARD (MARM):**

The 40th Middle Atlantic Regional Meeting was sponsored by the NY Section of the ACS and held at Queensborough Community College of the City University of New York in Bayside (Queens), New York. The meeting began on Saturday morning, May 17, 2008 and finished at noon on Wednesday, May 21 and was chaired by Dr. David Sarno and Dr. Paris Svoronos of QCC.

This diverse program was composed of 587 invited and contributed abstracts (216 posters) and the conference had approximately 950 registrants. Vital session sponsorships came from 5 ACS Divisions and 28 other companies and organizations. Eight general corporate sponsorships and a two-day expo that attracted vendors from 21 regional companies financed coffee breaks, a complimentary lunch, facilities charges, the program book, gifts, and other services.

The theme of the conference was Chemistry and Health, which was chosen because of the importance and impact of the health sciences in the New York metropolitan area. Several of the technical symposia were aligned with the theme, though by no means was the meeting restricted to this alone. All traditional fields of chemistry were represented and there were

*(continued on page 22)*

## CHEM LUMINARY AWARDS

(continued from page 21)

many novel sessions including: Chemistry and the Arts, Industrial Chemistry, Forensic Chemistry, Environmental Chemistry, and Biotherapeutics.

In addition, several special topics were covered in very successful one and two-day symposia on: Ionic Liquids, Computational Chemistry for the Health of Humanity and the Planet, Frontiers of Nanoscience and Nanotechnology, and Polymer Chemistry.

There were also special symposia honoring the winners of the Cope Scholars Award in Organic Chemistry, the Delaware Valley Chromatography Forum Award for 2008, and the ACS Regional Industrial Innovation Award.

Evening plenary lectures were given by Dr. Ronald Breslow and Dr. Roald Hoffmann and each was followed by a very well attended poster session and barbecue.

In addition to presenting a strong and diverse technical program, workshops were held for attendees from all backgrounds: students, academic and industrial chemists, high school teachers, entrepreneurs, job-seekers and future leaders. Programs for students and teachers were concentrated on Saturday and Sunday. Awards were presented to a variety of outstanding individuals and groups. Social events with invited speakers drew people together to help build lasting professional networks.

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## NY SECTION AT THE EASTERN ANALYTICAL SYMPOSIUM



(Left to Right): Joan Laredo-Liddell (2007 chair), Frank Romano (2010 chair) and Jean Delfiner worked at the American Chemical Society's New York Section booth in the Exhibit Area of the 2009 Eastern Analytical Symposium and Exposition at the Garden State Exhibit Center in Somerset, NJ.

(Photo courtesy of Joan Laredo-Liddell)

## NY SECTION — NATIONAL CHEMISTRY WEEK

National Chemistry Week was celebrated at the New York Hall of Science on Saturday, October 24, 2009.



Representatives of Ace Glass demonstrating their equipment.



Pace University student with a youngster learning to form large bubbles



Three young children trying their hand at forming bubbles.



St. John's University student watches the expression as the boy finds that his carnation that was placed in liquid nitrogen breaks into pieces.



Doing chemistry in a bag?? It's working!!

*(All photos courtesy of Joan Laredo-Liddell)*

*(continued on page 24)*

## NY SECTION — NATIONAL CHEMISTRY WEEK

(continued from page 23)

(L-R) Joan Laredo-Liddell, Chair, NYNCW; Jamie Lee Rizzo, Assistant Coordinate; David Sherman of Pepsi, Inc. Coordinator NCW; in the Viscusi Gallery of the NY Hall of Science.

(All photos courtesy of Joan Laredo-Liddell)



Mr. Met checks out the demos of the Adelphi University students.



Poster that was sent to National ACS to represent the NY Section. Poster- Elemental Power- was done by Courtney Bissonette, an 11th grade student at Division Avenue High School in Levittown. Her poster ranked 2nd in the national contest.



## Call for Nominations

### ACS NEW YORK SECTION'S OUTSTANDING SERVICE AWARD FOR 2009

Each year since 1958 the New York Section presents an Outstanding Service Award to a most deserving member of the section. Many members of the New York Section provide their time, leadership talent, and educational skills to the New York Section. The tradition of excellence of the New York Section is attributable directly to the cumulative effect of these individuals. Please help the New York Section to recognize the efforts of our colleagues by nominating them for this award. Nominations will be reviewed by a committee consisting of the previous five winners of the award. The Outstanding Service Award for 2009 will be presented at the New York Section's Section-wide Conference in January 2010.

Nominations with supporting data should be mailed to the OSA Committee Chair, Dr. Robert H. Beer, Department of Chemistry, Fordham University, 441 East Fordham Road, Bronx, NY 10458, or emailed to [beer@fordham.edu](mailto:beer@fordham.edu).

For more information about the award along with a list of former award recipients, please visit the New York Section's website at [http://www.newyorkacs.org/awards\\_nyacs.html](http://www.newyorkacs.org/awards_nyacs.html).



### 2010 SISTER MARIAN JOSÉ SMITH EXCELLENCE IN EDUCATION AWARD

This American Chemical Society award consists of \$1,000 prize and a recognition plaque. It recognizes a Chemistry professor from a degree-granting Institution in the North Jersey area for inspiring students and launching them on successful careers in chemistry as manifested by their accomplishments.

Please submit nominations and supporting letters to Jiwen Chen, Awards Committee Chair, c/o NJ ACS, 4 Cameron Road, Piscataway, NJ 08854. Tel: 609-818-6319, email: [jchen@njacs.org](mailto:jchen@njacs.org). Nominations must be received by **February 19, 2010**. Visit <http://www.njacs.org/awards.html#jose> for more information and a list of past recipients.

### DISTINGUISHED SCIENTIST AWARD

The **Westchester Chemical Society**, New York subsection, is seeking nominations for the its Distinguished Scientist Award. The nominee must either work or reside in Westchester county, New York. The award is presented in May, 2010. Send nominee resume to: Dr. Joseph Sencen, 5 Summit Circle, Somers, New York, 10589 or [jsencen@optonline.net](mailto:jsencen@optonline.net)



### LOCAL SECTION TECHNICIAN GROUP AWARD

The Division of Chemical Technicians (TECH) and the Committee on Technician Affairs (CTA) are now accepting nominations for the 2010 Local Section Technician Group Award. To be eligible, a group must meet the following criteria:

- Group must be a committee, technician affiliate group, or other organization dedicated to the advancement of applied chemical technology professionals.
- Group must be affiliated with an ACS local section.
- Group must have conducted an activity in 2009 that contributed to the education and/or professional development of applied chemical technology professionals.

To obtain a nomination form, email [cta@acs.org](mailto:cta@acs.org) or visit the TECH website at <http://acs-tech.org/>. Nomination packets consist of the completed nomination form, along with any desired supplementary materials. Completed nomination packets must not exceed four pages in length (single-sided, minimum 10 pt font).

The deadline for nominations is **January 15, 2010**. The winner will be announced at the 240th ACS National Meeting in Boston, MA. For more information, please visit the CTA ([www.acs.org/cta](http://www.acs.org/cta)) or TECH (<http://acs-tech.org/>) websites, call 202-872-6108, or email [cta@acs.org](mailto:cta@acs.org).

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## Call for Applicants

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### ACS — TWO STUDENT AWARDS IN GREEN CHEMISTRY

Apply by February 1

The Joseph Breen Memorial Fellowship sponsors young international green chemistry scholars to participate in an international green chemistry technical meeting, conference, or training program of their choosing. "Young" international scholar is defined as undergraduate students, graduate students, and post-docs. This award is sponsored by a fund that commemorates the commitment and accomplishments of Joe Breen for the advancement of green chemistry.

The Kenneth G. Hancock Memorial Award honors outstanding student contributions to furthering the goals of green chemistry through research or education. The award is a one-time cash award in the amount of \$1,000 (USD) and is open to all undergraduate and graduate students. The award is sponsored by the ACS Division of Environmental Chemistry and the U.S. Department of Commerce, National Institute of Standards & Technology.

Please help the ACS Green Chemistry Institute® spread the word about these awards to students and young scholars. There is no limit on the number of applications that can be submitted from any one academic institution or project advisor, and students may apply for both awards. For details on how to apply for the awards, go to: [www.acs.org/greenchemistry](http://www.acs.org/greenchemistry) > **Green Chemistry Awards**.

## Happy New Year




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## Going Places

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*This column will highlight members of our Sections who have moved out of our area or are otherwise less visible locally but still involved in ACS and chemistry. This month: George W. Luther, III.*

I joined the ACS as a graduate student in 1968. In 1972, I became a faculty member at Kean College of New Jersey and immediately started going to North Jersey topical group meetings. I became a topical group leader for Inorganic Chemistry and then became involved with various aspects of local section activities and governance. In 1983, I was elected local section Chair and Councilor. That expanded my experiences to national ACS activities and meeting many in national ACS governance.

In 1986, I moved to the University of Delaware and the College of Marine Studies in Lewes, Delaware where I became more involved with marine and environmental chemistry. I then expanded my ACS activities to the Division of Geochemistry becoming Chair in 1997 and alternate Councilor since. The many people I met from my North Jersey and national ACS experiences has served me well for the Division.

I cannot adequately describe how well I was received by the chemists of the North Jersey Section. They welcomed me and others, and encouraged me to assist the Section in the ACS' mission to foster chemistry as a central science. Since I left North Jersey, I have been able to see many good friends from North Jersey at ACS meetings and in ACS governance activities. I have very fond memories of the North Jersey ACS and the people who serve it.

If you have comments or suggestions of people to highlight e-mail [NoJOnTheMove@TheIndicator.org](mailto:NoJOnTheMove@TheIndicator.org)

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## Partners

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**Partners: Gordon Research Conferences brings young investigators together at the frontiers of science**

Since 1931, Gordon Research Conferences (GRC) have been highly regarded the premier venue for leading scientists to present and discuss cutting edge scientific research.

GRC's Gordon Research Seminar (GRS) Program provides this same type of experience specifically for graduate students and post-doctoral scientists.

Since the program's inauguration in 2005, the GRSs have evolved into the most cost-conscious, valuable forum for top graduate students, post-doctoral scientists, and other scientists with comparable levels of experience and education to present their work, discuss research, and build collaborative relationships with their colleagues at a critical time in their careers.

In 2010, GRC will organize 29 two-day GRSs on a diverse range of innovative topics in the biological, chemical, and physical sciences. These GRSs will take place at a variety of GRC venues in New England, California, Texas, Italy and Switzerland.

Similar to a GRC, a GRS is a small-scale, informal meeting with ample time for discussion that calls for active participation by every attendee. A GRS is an opportunity for trainees to discuss their work in a peer-to-peer setting, which gives them confidence to discuss their work and ask questions to leading scientists at the related GRC.

Each GRS is chaired by a knowledgeable and enthusiastic student or post-doctoral scientist who is responsible for accepting applications from their peers, selecting speakers from the most outstanding abstracts, and developing a thought-provoking program. GRS participants who do not give an oral presentation are expected to actively contribute by presenting a poster at the meeting. All participants benefit from engaging in top-quality scientific discussions at the forefront of their fields and networking with peers in a highly stimulating and non-intimidating atmosphere.

To view a comprehensive list of the 2010 GRSs and to submit an application today, visit the Student/Post-Doc Resources section of the GRC website: <http://www.grc.org/students.aspx>.

If you have comments on this column or suggestions of societies or groups providing programming which may interest ACS members e-mail [Partners@TheIndicator.org](mailto:Partners@TheIndicator.org)



### ***Partners: The Chemical Heritage Foundation***

Founded in 1982, the Chemical Heritage

Foundation is the only global institution dedicated to capturing the history and heritage of the chemical sciences, sharing and celebrating their human benefits, and honoring the scientists whose vision opened up a broader world.

CHF's museum, opened in 2008, chronicles the story of chemistry from Roman glass to the buckyball and was recently awarded a Citation of Merit award for architectural excellence by the Pennsylvania chapter of the American Institute of Architects. CHF is home to an unparalleled collection of first-of-their-kind electronic chemical instruments; early burners and furnaces; a unique collection of artifacts related to plastics, such as nylon objects from the early days of nylon production at DuPont, Bakelite objects, and celluloid objects; and artifacts related to electrochemistry, like early batteries, light bulbs, vacuum tubes, transistors, and computer chips. Their collections also include the Othmer Library of Chemical History (more than 100,000 volumes of primary resources for the history of chemistry) and the Eddleman and Fisher collections (more than 90 paintings and 200 works on paper that range from the 17th to the 19th century). It also possesses one of the best public collections of chemistry sets, with approximately 100 different sets from all over the world.

CHF also hosts conferences and lectures, supports research, offers fellowships, and produces educational materials. Some of their projects include Chemical Heritage, a magazine sharing stories of the history of chemistry and the molecular sciences with 35,000 readers worldwide; Distillations, an award-winning podcast that brings listeners extracts from the past, present, and future of chemistry; and an active fellowship program, hosting about 15 scholars each year. In addition, CHF conducts a variety of public programming, ranging from manual science projects during Philadelphia's First Fridays to monthly "Science on Tap" lecture programs at a neighboring pub.

Check out their website at [www.chemheritage.org](http://www.chemheritage.org), or visit CHF on Twitter, MySpace, Flickr, Facebook, YouTube, or LinkedIn.

If you have comments on this column or suggestions of societies or groups providing programming which may interest ACS members e-mail [Partners@TheIndicator.org](mailto:Partners@TheIndicator.org)

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## Tools That Work

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### *On-line Tools: Reach Out and SEE Someone*

Skype ([www.skype.com](http://www.skype.com)) has software that enables you to make free calls anywhere in the world and you will find the video conferencing features very useful. You could use Skype to stay in touch with members of your group's leadership Team (or with distant family and friends). Skype uses P2P (peer-to-peer) technology to connect you with other users. It offers several features, including calling from Skype to regular and mobile phones worldwide, conference calling, and secure file transfer.

To use the video conferencing feature you will need to have webcams attached to both computers (yours and the one at the other end of the call). These cameras are now reasonably affordable and come installed with many laptops. Both users will need to create a (free) account via the Skype site and download the software. The software allows you to check your connection, camera, volume etc. and then you place the call by clicking the appropriate icon.

Overall Skype makes it easy to see who you are talking to and is an effective way to stay in touch with committee and family members.

An unrelated but interesting site for you to explore is <http://thisisindexed.com/>. This blog/site has plots about data and ideas. Some present an interesting, and hopefully amusing, take on modern life.

If you have comments or suggestions of tools to highlight in this column e-mail [Tools@TheIndicator.org](mailto:Tools@TheIndicator.org).

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## ACS News

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### **ACS CALL TO ACTION**

#### **Working Together for a Sustainable Future**

The ACS Board of Directors and the Sustainability Stakeholders Steering group (S3G) are putting forth a CALL to action. The CALL is the means by which the Society will engage our members and stakeholders to Collaborate, Advance, Learn and Lead on the issue of sustainability.

Goal 3 of the ACS Strategic Plan for 2009 and Beyond states how the Society is

focused on "Addressing Global Challenges" through chemistry. The sustainability CALL to action is a roadmap of seven avenues that chemists, chemistry, and the American Chemical Society can use to address the global challenges of sustainability. We aspire to achieve the following through the CALL to action at <https://communities.acs.org/message/3726> :

- Green Operations
- Advance the Science
- Inform our Members
- Educate the Public
- Prepare Future Chemists
- Policy Advocacy
- Recognize Best Practices

The Society has begun to work in each of these areas, but much more needs to be done. The spring 2010 ACS National Meeting in San Francisco will have the theme of "Chemistry for a Sustainable World." In addition to attending symposia and listening to technical presentations, you will be able to participate in identifying and building new initiatives through a wide-ranging engagement event and forum.

ACS looks forward to working with you to achieve our vision of "Improving people's lives through the transforming power of chemistry". Join the ACS Network at [www.acs.org/network](http://www.acs.org/network) or log into the group at <https://communities.acs.org/> sustainability-stakeholders-group to learn more about the initiative and to answer



### **ACS FELLOWSHIP AVAILABLE**

#### **Experience Science Policy in Washington, DC**

For more than 30 years the American Chemical Society (ACS) has sponsored Public Policy Fellowships to work on Capitol Hill and in the ACS Office of Public Affairs. The 2009–2010 fellows worked for Senators Ben Cardin (D-MD and Claire McCaskill (D-MO).

Fellows provide science expertise to Washington, D.C. policymakers on issues such as homeland security, national security, water resources and containment, climate change, science education, and much more.

The fellowships applications are due December 31 while the actual fellowships run for one year, generally from September to September. If you are interested in learning more about these fellowship programs, please visit <http://www.acs.org/policy> or call (202) 872-4386 for more information.

## ACS DIRECTORY OF GRADUATE RESEARCH

The *ACS Directory of Graduate Research* (DGR) and **DGRweb**, the searchable online version of the DGR, is the premier source of information on faculty and their research interests in chemistry and chemistry-related programs. The *Directory* facilitates research collaborations and enables networking across chemical subdisciplines, providing the most comprehensive information on graduate research and researchers at universities in North America.

The 2009 print edition of the DGR provides information on:

- 675 academic departments
- 9,981 faculty members
- 64,331 publication citations

The DGRweb features include:

- Search capability for both faculty and areas of research;
- Improved faculty search using multiple keywords for specific research interests;
- New regional search features for faculty and institutions;
- New "Print PDF" feature, which allows users to print individual department listings formatted as in the hardcover DGR; and
- Access to the complete databases from 1999 through 2007.

As in the previous edition, **DGRweb** continues to be available free of charge at [www.acs.org/dgrweb](http://www.acs.org/dgrweb).

Copies of the print edition may be ordered by calling 1-800-227-5558, or online at [www.acs.org/dgrweb](http://www.acs.org/dgrweb). For more information about the DGR or DGRweb, please contact the Office of Professional Training at [dgr@acs.org](mailto:dgr@acs.org).



## SAVE THE DATES FOR GREEN CHEMISTRY: JUNE 21-24!

The 14th Annual Green Chemistry & Engineering Conference returns to downtown Washington, DC on **June 21-24, 2010**. With the theme "Innovation and Application" and with one of the renowned founders of green chemistry, Dr. John Warner (President and CTO, Warner Babcock Institute for Green Chemistry) as the chair, this confer-

ence is shaping up to be one you won't want to miss! The tentative schedule for the week begins with a Student Workshop, Roundtable Meetings, and the Presidential Green Chemistry Challenge Awards Ceremony on Monday, June 21, followed by technical programming on June 22-24. Please visit the conference website, [www.gcande.org](http://www.gcande.org), where more details will be posted as they become available.



## ACS 239TH NATIONAL MEETING

### ACS Encourages Early Hotel Reservations

Housing opens November 16th for the 239th ACS National Meeting which will be held March 21 – 25, 2010 in San Francisco. The theme for this meeting is "Chemistry for a Sustainable World" and based on the number of abstracts submitted, this meeting could possibly be the largest San Francisco meeting. Reserve your hotel room today. The inexpensive hotels will go fast!

Also, mark December 21st as the opening of registration on your calendars.

For registration, housing and detailed national meeting information, visit the Spring 2010 ACS National Meeting website at [www.acs.org/sanfrancisco2010](http://www.acs.org/sanfrancisco2010)



## COMPLETE THE POST NCW 2009 COORDINATOR SURVEY!

The ACS Committee on Community Activities Committee (CCA), would like to thank you for your dedication and leadership as a Coordinator of your local section's National Chemistry Week 2009 festivities! The members of CCA recognize the fine work that you have done and hope that this has been a satisfying year for you. Congratulations on your accomplishments.

To wrap-up the 2009 National Chemistry Week celebration, there are two items that still require your attention:

- Complete the NCW Post-2009 Celebration Survey found at: <http://fs12.formsite.com/ACS-OCA/form310049313/index.html>. Your input will help us with the development of future National Chemistry Week celebra-

(continued on page 30)

## ACS NEWS

(continued from page 29)

tions. As an extra added incentive once your post NCW survey is received, a token of thanks will be sent to you!

- Relish in the success of your celebrations and share it with others. Post a brief summary of your activities and photos on the ACS Network! Visit <https://communities.acs.org/groups/national-chemistry-week>.

Once again thank you again for making NCW 2009 tremendous! We look forward to new and exciting events for 2010!



## SHARE YOUR NCW 2009 CELEBRATION WITH OTHERS

**Join Our Groups on the ACS Network and Facebook!**

The ACS Office of Community Activities Staff uses the ACS Network NCW Group and Facebook (search "**Meg A. Mole**" or "**National Chemistry Week**") as a place to hold discussions on event planning, collaborations, and sharing your successes. We encourage you to share photos and videos of your events and to make lasting connections with these great tools.



## ACS ANNOUNCES THE 2010 SCHEDULE FOR SHORT COURSES

Our 2010 Schedule is out – find out which courses are being offered in what cities by visiting [www.proed.acs.org/2010](http://www.proed.acs.org/2010).

The ACS Office of Professional Education has dramatically revamped its website and registration system so you can find the courses you're looking for in no time. Bookmark this link today: <http://www.proed.acs.org>. You can now search our short courses, webcast courses and ProSpectives Conferences by topic area, date, or location and even browse our full instructor list.

We are continuously investing in new course development, so if you don't see what you're looking for, just drop us a line at [shortcourses@acs.org](mailto:shortcourses@acs.org) and we'll do our best to serve your technical training needs.

## CHEMISTRY FOR A SUSTAINABLE WORLD

**At the San Francisco National Meeting**

The Thematic Programming on Chemistry for a Sustainable World at the San Francisco ACS meeting in March will embrace the complete spectrum of ACS activities. The theme kick off features a Sunday afternoon plenary symposium of sustainability thought leaders from academics, industry, and government.

On Monday, March 22nd, we will celebrate the United Nations' World Water Day through a symposium on Global Water Sustainability. Other major thematic symposium topics will include Sustainable Energy, Green Chemistry, and Chemistry in the Developing World. The keynote address will be late Monday afternoon.

Major sub-themes embraced by multiple Divisions reflect the breadth of our members' interest in sustainability including Sustainable Energy, Sustainable Water, Sustainable Food, and Green Chemistry. The theme will extend to the Undergraduate Program with sessions on green jobs and solar fuel as well as to the High School Program for area teachers and to a Community event at the California Academy of Sciences on Saturday before the meeting starts.

The second offering in an Environmental Film Festival will feature the film, "One Water," and the Sustainability in Action symposium will highlight some of the many efforts throughout the ACS to become a more sustainable organization.

The CALL to action event will additionally allow members to engage issues of sustainability directly. All members are invited to participate in this multidimensional and timely theme.

For more information and updates, visit [www.acs.org/sanfran2010sustainability](http://www.acs.org/sanfran2010sustainability)



## TRY OUT AN ACS WEBCAST!

**Travel Budget Cut But You Still Need Training?**

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

Join the ACS Webcast mailing list at [www.proed.acs.org/emailme](http://www.proed.acs.org/emailme) to be the first to hear about the 2010 schedule, try out new courses for free, and receive discounts not available to the general public! Save your time and money and take a look at the courses available online through ACS.

ACS Webcast Short Courses provide the same quality training that ACS has long been known for, but, because the courses are presented over the Internet, they offer added convenience and flexibility.

- Economical: Most ACS Webcasts cost less than \$100 an hour, which is far less than most technical training.
- Easy: Our technology is easy to use and works with all typical computer systems so virtually anyone can easily take a webcast from the comfort of their home, office, or lab.
- Convenient: Class attendance is NOT required. If you miss a class, simply use your on-demand access to the session recording so you can catch up on your own time.
- Informative: All class materials are available for download and you can email the instructor anytime.

There are expanded course offerings in analytical, organic, pharmacology, engineering, instrumentation, and other areas. For the full list of Webcast Short Courses and more information on available discounts, visit [www.proed.acs.org](http://www.proed.acs.org)

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## Press Releases

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### **Calibration Guide Now Available From Dickson**

Quality managers and others responsible to maintaining the integrity of temperature and/or humidity chart recorders or data loggers, can now download a comprehensive guide to all aspects of instrument calibration at: [http://www.dicksondata.com/calibration/calibration\\_order.php](http://www.dicksondata.com/calibration/calibration_order.php).

Chapters of this online guide include:

- Explanations of why calibrations are required
- Review of calibration methods to choose from
- A step-by-step guide to developing calibration schedules
- "Before" Data considerations

- Best fit applications for 1-point, 3-point and custom point calibrations
- Glossary of calibration terms
- Optional Calibration Club registration

Product and calibration inquiries can be directed to Dickson customer service at 800 – 757 – 3747, FAX 630 – 543 – 0498 or by writing Dickson, 930 South Westwood Avenue, Addison, IL 60101, USA. ([www.dicksondata.com](http://www.dicksondata.com))



### **New Era Pump Systems Introduces NE-9000 Peristaltic Pump**

Have a need to accurately fill multiple bottles, vials or other containers with a liquid? The learn and repeat mode of the NE-9000 Peristaltic Pump from New Era Pump systems delivers a great solution and subsequently makes even the smallest of businesses highly productive right away.

The NE-9000 Peristaltic Pump is equipped to be used in many settings from the small home based business to the large factory floor. The pump can be integrated into existing production lines or simply stand alone.

Any custom needs and/or designs are welcome as New Era continues its tradition of putting its customers' needs first and foremost. Contact New Era at 631-249-139.



### **CHLOR\*RID Announces Soluble Salt Remover**

**CHLOR\*RID® is True Salt Remover – Not Just Corrosion Inhibitor like Other Companies**

CHLOR\*RID International, Inc., the world's leading source of products for soluble salt testing and soluble salt removal, announced that its CHLOR\*RID salt remover is 100% "Green," organic, non-hazardous, and biodegradable. CHLOR\*RID is used by state highways, bridges, railroads, aircraft, ships, dams, and tanks to protect and remove dangerous salt contamination and corrosion in crucial U.S. infrastructure systems. CHLOR\*RID employs unique patented organic bonding chemistry to fully remove chlorides, sulfates and other soluble salts, making America's key bridges, ships, and machinery safer for all.

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