

THE Indicator

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Dr. John J. Piwinski
North Jersey Section's
2013 Lifetime Achievement Awardee
(See page 13.)

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Mexico City-based team to feature order fulfillment and palletizing systems in booth #1706

Intelligrated® (www.intelligrated.com), a leading North American-based automated material handling solutions provider with key operations in Mexico City, is exhibiting at EXPO PACK Mexico 2013, **June 18-21**. Intelligrated will highlight its Real Time Solutions® pick-to-light and voice order fulfillment solutions, as well as its line of Alvey® robotic palletizing systems.

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turers as well as custom end-of-arm tooling built to handle various product types and quick-line changeovers.

Intelligrated has enhanced its support for the region with significant investments, including a Mexico City-based spare parts fulfillment center, additional local technical sales and customer service support staff, and a Spanish-language website.

"Intelligrated's engagement with EXPO PACK Mexico demonstrates our continued growth in the region and commitment to Mexico and Latin America," said Julio Rubio, director of Intelligrated's Mexico operations. "Our presence in Mexico ensures local customers receive the best material handling solutions with customer service and support to match."

To learn more about Intelligrated in Mexico and Latin America, please visit Intelligrated at EXPO PACK Mexico 2013, **June 18-21** at booth #1706, or contact Intelligrated's Mexico City office at +52 55 5281 0506 or info@intelligrated.com.

For more information, please contact Emily Smith, marketing supervisor, Intelligrated, by phone at (513) 881-5239 or by email at emily.smith@intelligrated.com. You can also contact Natalie Fioto, public relations, Koroberi, by phone at (919) 945-0566 or by email at natalie@koroberi.com.

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June Calendar

NEW YORK SECTION

Wednesday, June 5, 2013

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Thursday, June 6, 2013

Chemical Marketing & Economics Topical Group
See page 7.

Friday, June 7, 2013

New York Section Board Meeting
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NORTH JERSEY SECTION

Monday, June 10, 2013

Careers in Transition Group
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Wednesday, June 12, 2013

North Jersey Teacher Affiliates
See page 14.

Wednesday, June 12, 2013

NMR Topical Group
See page 18.

Submit photos (remember to include captions and photo credits) for use in *The Indicator* by e-mailing Photos@TheIndicator.org

The Indicator is posted to the web on the 15th of the previous month at www.TheIndicator.org

Deadline for items to be included in the September 2013 issue of *The Indicator* is **July 20, 2013**

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THIS MONTH IN CHEMICAL HISTORY

Harold Goldwhite, California State University, Los Angeles • hgoldwh@calstatela.edu

In a column I wrote a decade ago I analyzed a general chemistry text I bought at a flea market: "Outlines of Inorganic Chemistry" by Frank Austin Gooch and Claude Frederick Walker (Macmillan, New York, 1905). Gooch was a well-known analytical chemist at Yale, and the Gooch crucible is familiar to at least my generation of chemists. Walker was then a teacher of chemistry at the High School of Commerce in New York City.

I was reminded of that column by a message I received recently from John Fatherley of Chicopee Massachusetts, a descendant of the Walker family. The Walker Memoirs have been compiled over the years by family members, and Mr. Fatherley sent me the volumes containing further information about Claude Frederick Walker (referred to as Walker in this column). I thank Mr. Fatherley for his generosity in sharing this material with me.

Walker, born in Holyoke, was the son of a distinguished father, Charles Swan Walker, who served in the Civil War, studied theology at Yale and Andover and became a pastor for 16 years in communities in Connecticut, New Jersey, and Massachusetts before moving to the Massachusetts Agricultural College (which became Amherst College) in 1886 where he worked for 20 years as teacher and minister. He received the only Ph.D. ever awarded by Amherst College in 1885, and also wrote extensively on historical topics.

His writing skills seem to have been passed on to his son who, while a student at the Massachusetts College of Agriculture edited two journals: "Aggie Life", and "College Monthly". Quoting from Walker's own reminiscences: "In September 1894, at age nineteen, I became a graduate student in chemistry at Yale University in New Haven, Connecticut – not too far from home – where my father had received his degrees in Arts and in Divinity – more than a quarter century before." Walker worked in Gooch's laboratory on "idometric analysis" (a search for this suggests it's a typo for iodometric analysis). He mentions his platinum Gooch crucible and his burettes. His first paper with Gooch was published in the American Journal of Science and by 1897 he assembled and expanded his publications into a thesis that was accepted by the chemistry faculty. He was awarded the Ph.D. by Yale in June 1897 at the age of twenty two – the youngest student to have been awarded the doctorate at Yale to that time.

After an anxious period of waiting his appointment as an Assistant in Chemistry at Yale, recommended by Gooch, was approved and he began "seven peripatetic years of teaching" initially assisting in the Elementary Chemistry course at Yale. In 1898 he moved to the State Normal School in Moorhead Minnesota, teaching chemistry and physics; in 1899 he moved to a high and manual training school on the Michigan peninsula near the copper mines. His comments on Moorhead make interesting reading: "I found science teaching exacting but not too difficult...my handful of chemistry students sat before the lecture table while I did my experiments. Then ... they would do theirs." The source of heat was alcohol lamps. In addition to chemistry he also taught physics and physiology (!) : "There were maps and charts, microscopes and equipment for projection, an Atwood's machine [for experiments on kinematics HG] ...a powerful plunge battery [where the electrodes were plunged into the electrolyte to generate current electricity, and removed by lifting them between experiments HG] and a static machine, a skeleton in the closet(!) ... and a photographic darkroom.

I found these insights into a dedicated life of teaching chemistry in the late nineteenth and early twentieth centuries to be of great interest. I plan to round off Walker's story in a subsequent column.

New York Meetings

www.newyorkacs.org

NEW YORK SECTION BOARD MEETING DATES FOR 2013

The dates for the Board Meetings of the ACS New York Section for 2013 were chosen and approved at the November 30, 2012 Board Meeting. The meetings are open meetings – all are welcome. If non board members would like to attend the meeting, please let the New York Section office know by emailing Mrs. Marilyn Jespersen at njesper1@optonline.net or calling the office at (516) 883-7510.

The 2013 Board Meetings will be held on the following Fridays at 6:30 PM at St. John's University, D'Angelo Center, Jamaica, NY. Dr. Philip H. Mark will chair the meetings.

Friday, June 7

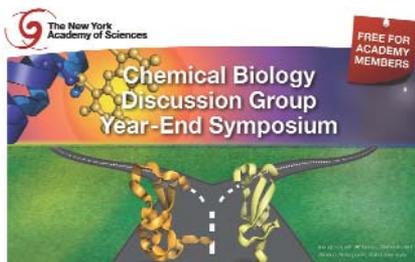
Friday, September 27

Friday, November 15

More information will be posted in future issues of *The Indicator* and on the New York website at <http://www.NewYorkACS.org>.



ORGANIC TOPICAL GROUP – JOINT MEETING WITH THE NEW YORK ACADEMY of SCIENCES CHEMICAL BIOLOGY DISCUSSION GROUP



Chemical Biology Discussion Group Year-End Symposium

Organizers: Akira Kawamura, PhD
Hunter College, CUNY
Jonathan Lai, PhD
Albert Einstein College of Medicine

Jennifer Henry, PhD
The New York Academy of Sciences

Keynote Speaker: Alanna Schepartz, PhD
Yale University

Chemical biology is a diverse and dynamic field involving chemical approaches to studying and manipulating biological systems. The goal of the Academy's Chemical Biology Discussion Group meetings is to enhance interactions among local-area laboratories working in chemical biology and to feature forefront research in chemical biology to the wider community. The meeting traditionally covers a range of current topics in chemical biology, including chemical probe development, organic synthesis, biosynthesis, protein engineering, nanotechnology, and drug discovery. The annual year-end meeting features distinguished keynote speaker Professor Alanna Schepartz of Yale University. This will be followed by shorter, cutting-edge talks by graduate students and postdoctoral fellows selected from participating tristate-area institutions.

Poster Competition: Call for Abstracts

Submissions are invited for a poster competition. All abstracts will be reviewed, and four will be selected for a brief oral presentation. For complete submission instructions, email CBDG@nyas.org with 'Poster Information' in the subject line. There is no need to type a message; instructions will be forwarded automatically. **The deadline for poster abstract submission was Friday, May 10.** Please call (212) 298-8632 with any questions.

Date: Wednesday, June 5, 2013

Time: 12:00 – 5:00 PM

Place: New York Academy of Sciences
7 World Trade Center
250 Greenwich Street – 40th Floor
New York, NY 10007

Cost: This event is FREE for ACS and NYAS members. Please select the appropriate non-member Registration Category and use the Priority Code ACS. Non-members may attend for a fee of \$30, or \$15 for students and post-docs.

For more information and to register for the event, go to:

www.nyas.org/CBDGYearEnd2013

To become a Member of the Academy, visit www.nyas.org/benefits

CM&E TOPICAL GROUP**Panel Discussion: Genomic Health Innovations**

Cosponsored by: CM&E/ACS and NYBA

Host: Dr. Paul Pospisil
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Join Nathan Tinker, PhD, Paul Pospisil, PhD and a panel of experts and gain unique insights on the disruptive opportunities of this revolutionary advance in life science and human health.

Abstract:

- Are genomic medicine innovations finally having an impact on all of us?
- Is the convergence of biology, medicine, chemistry and big data analysis transforming new standards of medical care?
- What does the future of this healthcare and life science revolution hold?

Genomic Medicine Innovations are rapidly reaching the healthcare market place and changing the way how diseases are diagnosed and treated. Advancements in our understanding of basic human biology, medicine, chemistry, instrumentation and technology to analyze big data sets are converging to redefine how diseases are diagnosed, managed and treated. A series of entrepreneurial health and life science companies are developing solutions to help manage more valuable outcomes for patients, providers and payers alike.

Date: Thursday, June 6, 2013

Time: 11:00 AM - 2:00 PM

Place: The Yale Club
50 Vanderbilt Avenue
New York, NY

Cost: Luncheon — \$90 for non-CM&E members; \$70 for 2013 CM&E, ChemPharma members
Webcast — \$25

Free Webcast Recordings for ACS members. Check website for early-bird discounts.

Registration: www.cmeacs.org

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WILLIAM H. NICHOLS MEDAL AWARD FOR 2013

The William H. Nichols Medal Award for 2013 was presented to Professor Richard Eisenberg of the University of Rochester on March 15, at an award dinner at the Crown Plaza Hotel, White Plains, NY. Professor Eisenberg received the Nichols gold medal for "Outstanding Contributions to Inorganic Photochemistry." Over 250 industrial chemists, students and faculty from New York Section colleges and universities enjoyed the Distinguished Symposium and Award Dinner.

The William H. Nichols Distinguished Symposium, titled "Addressing Cutting Edge Challenges in Catalysis and Energy, featured internationally known speakers: Professor Clifford P. Kubiak (University of California, San Diego), Professor William D. Jones (University of Rochester), Professor Marcetta Y. Darensbourg (Texas A&M University) and Professor Eisenberg who gave the Award Lecture titled "Making Solar Hydrogen." Professor Pamela K. Kerrigan, 2013 Chair-elect of the New York Section, organized and chaired the symposium. The Nichols Distinguished Symposium, described as one of the best, was enjoyed by all attendees, most of whom attended the social hour and the award dinner that followed.

At the Award Dinner, Professor Philip H. Mark, 2013 Chair of the ACS New York Section, welcomed the guests and related the story of the Nichols Medal. The New York Section was honored to have in attendance Dr. Marinda Li Wu, President of the American Chemical Society, who graciously brought greetings and congratulations from the ACS to Professor Eisenberg and the Section. Professor Harry B. Gray of the California Institute of Technology introduced his friend and colleague, Richard Eisenberg, with entertaining stories of the camaraderie of their colleagues and family through their college and professional years. New York Section Chair Philip Mark then awarded the gold medal, identical bronze medal and \$5000 to Professor Eisenberg. Medalist Eisenberg presented his acceptance speech that reinforced Dr. Gray's emphasis on dedication and camaraderie. He also happily met with the college students for photos and conversation.

Each year, members of the Nichols family enjoy the events. In attendance this year were Mr. and Mrs. C. Walter Nichols III. Mr.

WILLIAM H. NICHOLS MEDAL AWARD FOR 2013

(continued from page 7)

Nichols is the President of the Nichols Foundation and great grandson of Dr. William H. Nichols. Another guest was Mr. Charles Nichols, great, great grandson of Dr. William H. Nichols. The New York Section is honored with their presence and friendship.

The Nichols Medal Award was established in 1902 by Dr. William H. Nichols to honor a chemical scientist for outstanding original research and was first awarded in 1903. Dr. Nichols, a charter member of the American Chemical Society and its president in 1918 and 1919, maintained a deep commitment to research and development and to the importance of supporting science education and students of chemistry. Since its inception, through an endowment fund, the New York Section administers the award. It has been perpetuated by the generosity of Dr. Nichols, his family and the Nichols Foundation, Inc. The William H. Nichols Medal is the oldest award in chemistry of the American Chemical Society.

At the conclusion of the symposium, a special award was presented to Christopher Hillenbrand of Regis High School for his extraordinary accomplishment in the 2012

Chemistry Olympiad and for his efforts to promote chemistry at his high school. A beautifully engraved plaque was presented to him by Mr. George Rodriguez, chair of the Chemical and Marketing Topical Group of the New York Section. It read: With the highest appreciation for winning a Gold Medal for the USA at the 44th International Chemistry Olympiad in 2012 and for contributions to the advancement of science education. The local Chemistry Olympiad is organized by Professor Stephen Goldberg of Adelphi University.



NY ACS Chair Philip Mark presented the William H. Nichols Gold Medal for 2013 to Richard Eisenberg for Outstanding Contributions to Inorganic Photochemistry.



A group photo at the pre-dinner reception. Left to right: NY ACS Chair-elect Pamela Kerrigan, Speaker William Jones, Speaker Clifford Kubiak, ACS President Marinda Li Wu, Introducer Harry Gray, Nichols Medalist Richard Eisenberg, NY ACS Chair Philip Mark and Speaker Marcetta Darensbourg.



Mr. C. Walter Nichols III (center) enjoyed good conversation with Medalist Richard Eisenberg and his wife, Marcia.

Medalist Richard Eisenberg and Chair Phil Mark enjoying the kind and entertaining words of Introducer Harry Gray.



At the end of the symposium, Christopher Hillenbrand was presented with a special award for his achievements in the 2012 International Chemistry Olympiad for high school students. Left to right: Chris' mother Cheng-yen Teh, Medalist Richard Eisenberg, Christopher Hillenbrand, ACS President Marinda Li Wu, George Rodriguez, and NY ACS Chair Philip Mark.



Table Five about to enjoy a delicious dinner at the Medal Award Celebration. Prof. Stephen Goldberg, Councilor Joan Laredo-Liddell, Zhu Zhu Nolan, NY ACS Treasurer Robert Nolan, George Rodriguez, Christopher Hillenbrand and his parents, Cheng-yen Teh and Jerry Hillenbrand.

(More photos on page 10)

WILLIAM H. NICHOLS SYMPOSIUM (continued from page 9)



Students from the College of Mount Saint Vincent met with the Nichols Medalist. Left to right: Pamela Kerrigan, Stephanie Tejada, Vicki Milord, Medalist Richard Eisenberg, and Hubert Bararwandika.

Medalist Eisenberg met with many students after the award dinner. Here with students and faculty from Queensborough Community College.



Officers of the ACS New York Section gather together with three members of the Nichols family (center – C. Walter Nichols III, Wally Nichols and Helga Nichols) for a group photo. This group includes many councilors and former chairs of the New York Section.



Over 250 students, faculty and industrial chemists enjoyed the excellent 2013 Nichols Distinguished Symposium.

WESTCHESTER CHEMICAL SOCIETY

The Westchester Community College (WCC) in Valhalla, NY hosts the monthly speaker events for the Westchester Chemical Society (WCS), which is a sub-section of the New York Section of the ACS. Our chairperson, Dr. Rolande Hodel is a member of the WCC chemistry faculty. Each spring semester the WCC Chemistry Club invites Dr. Hodel to present a talk on her work in Cameroon with Aids-Free-Africa, a non-profit founded by her. A "progress report" to faculty who have seen the previous talks, it is a real eye opener to students who talk about this event for months to come. Aids-Free-Africa and Dr. Hodel have made substantial contributions to combating AIDS in Cameroon. At the end of the talk, interested students offer to volunteer. Some also request to be informed of upcoming talks. Dr. Hodel presented this year's talk on April 11, 2013. She is grateful to the College and Dr. Jody Reifenberg, Chemistry Department Chair for the opportunity to speak. In addition, the WCS is grateful for the accommodation WCC affords us for our meetings.



Dr. Rolande Hodel speaking about her work with Aids-Free-Africa to the Westchester Community College Chemistry Club and faculty at Westchester Community College, Valhalla, NY, April 11, 2013.

(Photo courtesy of Paul Dillon)

WESTCHESTER CHEMICAL SOCIETY

On April 11, 2013 Dr. Keeshan Williams, from The Polytechnic Institute of NYU in Brooklyn, NY, gave a most interesting and informative presentation to the Westchester Chemical Society on the modeling of protein-DNA interactions by use of electrified interfaces. More specifically, he described coupling of double-stranded DNA, conjugated with electroactive ferrocene derivatives, to a conductive gold substrate to generate monolayers. The interactions of the DNA probes with proteins are investigated by monitoring the alternating current voltammetry (ACV) of the surface. This allows the elucidation of the thermodynamic and kinetic parameters of the binding various species such as proteins or small molecules to DNA. ACV input frequencies are varied to determine those most sensitive to ligand binding. Then, Langmuir-type binding isotherms are generated to quantitatively determine binding affinities. The application of this technique to the study of a classical biomolecular system (the interaction of CRO protein with binding regions of bacteriophage lambda DNA) was described. Following Dr. Williams talk, which was held at the Westchester Community College in Valhalla, N.Y., the group engaged in a lively question and answer, and discussion, session exploring, among other things, potential applications of this approach to diagnostics and pharmaceutical development. A smaller group continued the discussion at dinner later in the evening. All of us had an enjoyable, interesting and informative evening. The photo below is of Dr. Williams and the WCS board members attending the meeting.



Paul Dillon, Keeshan Williams, Rolande Hodel and Peter Corfield,

(Photo courtesy of Paul Dillon)

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.

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

NEW YORK SECTION CHEMISTRY OLYMPIAD GOLD MEDALIST



In addition to being presented a special award from the New York Section at the Nichols Symposium (see photo on page 9), Olympiad Gold Medalist Chris Hillenbrand was invited to the White House Science Fair on April 22 where he is shown here accepting congratulations from President Obama.

Learn more about the
New York Section at www.NewYorkACS.org



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North Jersey Lifetime Achievement Awardee

DR. JOHN J. PIWINSKI RECEIVES THE NORTH JERSEY SECTION 2013 LIFETIME ACHIEVEMENT AWARD

Dr. John J. Piwinski has a well-deserved world-wide reputation as a leader and innovator in the field of medicinal Chemistry. His style is characterized by openness, honesty, and a willingness to take the time to listen to others seeking advice. His drive and enthusiasm for science and success are contagious. He serves as a role model for medicinal chemists and has expanded his influence greatly through his mentorship of younger and established chemists in the field of medicinal chemistry.

Dr. John J. Piwinski has extensive expertise in small molecule drug discovery with over 30 years of experience in medicinal chemistry. During his career, he oversaw discovery programs in chemistry from project initiation to delivery of candidates for clinical development. He received his B.S. degree in Chemistry and Biochemistry from the State University of New York at Stony Brook in 1976 and his Ph.D. in Organic Chemistry from Yale University in 1980.

He joined Revlon Health Care as a Senior Scientist working in the cardiovascular diseases area in 1980. In 1983 he moved to Schering-Plough Research Institute (SPRI) where he worked in the respiratory diseases group. At Schering he held positions of increasing responsibility and eventually oversaw Chemical Research as Vice President from 1999 to 2003 and Group Vice President from 2004 to 2008. In this position he was responsible for overseeing drug discovery chemistry in Kenilworth, New Jersey in the areas of respiratory, inflammation, cardiovascular, CNS, oncology and infectious diseases. Under his leadership, the SPRI medicinal chemistry group accomplished major advances including the following: dozens of molecules recommended for clinical development in all major therapy areas, several compounds are still being studied in Phase III (e.g. vorapaxar, preladenant), one compound approved by FDA (boceprevir), and one compound in Phase II for the orphan disease progeria (lonafarnib). However, simply reading off a list of accomplishments does not really do justice to his impact on the chemistry group at SPRI. It was through his guidance that the chemistry group at SPRI was transformed. For example, he helped to guide the very successful structural chemistry group and the high-throughput synthesis group, and he spearheaded the acquisition of NeoGenesis, which gave SPRI a leading position in ALIS-based screening. Each of these actions served to drive the medicinal chemistry group at SPRI to new levels of execution and success.

In 2008 he became the Site Head and Group Vice President of Schering-Plough's Cambridge, Massachusetts site. Research at the site focused on medicinal chemistry, affinity-based screening and optimization, bioNMR, protein science and biologics. Merck acquired Schering-Plough in 2009 and continued to operate the Cambridge site until the end of 2010.

Dr. Piwinski has always treated the people in his group with respect. Despite having a hectic schedule, he always found time to talk to people about their projects or if they had a concern. He is an extremely compassionate individual who always looks for the best in people. He cares about people and they thrive under him. Under his guidance, chemists who were considered poor performers became productive members of his group due to his coaching. He always stood up for his people even if this was unpopular. For example, there was one time where a biologist was being given a hard time over an issue. The biologist's line management all sat mute yet John came to the person's defense! This is the type of person John is.

Dr. Piwinski spent significant time giving back to the chemistry community. He has volunteered his time to be on the advisory committees for a diverse set of groups that are local (New Jersey Academy of Sciences Panel and the international Chinese-American Biomedical Board). Additionally, he has done chemistry outreach and performed chemistry experiments for his local schools. He also started a summer internship/scholarship program at SPRI that gave New Jersey City University students who are financially challenged the opportunity to spend up to two summers as an intern at SPRI and receive two years of scholarship money towards their education. Many of these students, due to this opportunity, are now successful in the science fields.

Dr. Piwinski is currently Principal of JJPiwinski Pharma Consulting, LLC in Lebanon, New Jersey and consults in the areas of medicinal chemistry and drug discovery, including small molecule lead discovery and optimization. In this role he has consulted for numerous companies, which included conducting program reviews, due diligences and patent work. He has presented numerous talks at scientific meetings and has approximately 150 published research papers, abstracts and approved U.S. patents. He has been a member of the American Chemical Society since 1977, serves on an NIH Drug Development Program Review Panel, and is also a member of the Institute of Chemical Biology & Drug Discovery Advisory Board at Stony Brook University.

North Jersey Meetings

<http://www.njacs.org>

NORTH JERSEY EXECUTIVE COMMITTEE MEETING

There will be no Executive Committee Meeting held in June.



CAREERS IN TRANSITION MEETINGS

Job Hunting??

We offer assistance at Students2Science to help members with their job search on the second Monday of each month. Topics at this free workshop are:

- Techniques to enhance resume effectiveness
- Interview practice along with responding to difficult questions
- Networking to find hidden jobs
- Planning a more effective job search

Date: Monday, June 10, 2013

Times: Meeting 5:30 - 9:00 PM

Pizza snack and soda 6:30 PM

Place: Students 2 Science, Inc.
66 Deforest Avenue
East Hanover, NJ

Cost: \$5.00 for pizza and soda

Reservations: at

www.njacs.org/careers.html

A job board and networking assistance is offered at most topical group meetings. Appointments with Bill can be arranged for personal assistance at (908) 875-9069 or billsuits@earthlink.net.

See www.njacs.org under the Career tab for Jobs hidden from sight and relevant blogs.



NORTH JERSEY TEACHER AFFILIATES

Date: Wednesday, June 12, 2013

Time: 4:00 PM

Place: College of St. Elizabeth
Convent Station, NJ

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NORTH JERSEY CANDIDATES

The nominating Committee of the North Jersey ACS Section is pleased to present the slate of candidates listed below in alphabetical order by category for election to offices to begin in 2014.

Ballots will be distributed to members in the fall.

Ray Baylouny
Jeannette Brown
Landon Greene

Bettyann Howson
Les McQuire
Bill Suits

Candidates for Chair-Elect

Ron Kong Luciano Mueller

Candidate for Treasurer

Jackie Erickson



METRO WOMEN CHEMISTS COMMITTEE

The NJACS Metro Women's Chemist Committee held its 4th annual "Gift of Mentoring" event on April 18th at Fairleigh-Dickinson Campus in Madison, NJ. Approximately 25 people attended the meeting. The highlight of the night was the presentation of year's "Gift of Mentoring" award honoring Mrs. Susan Fahrenholtz. Past winners include Jeanette Brown, Maureen Chan, and Anita Brandolini. Sue is best known for her involvement with Project SEED, she has been the head of the North Jersey's section's SEED committee for almost 30 years. She has been involved in several other formal and informal mentoring programs, reaching thousands of young scientists.

The evening began with networking and dinner, following by several women speaking about how Sue has influenced their lives; as a mentor, colleague, and friend. Two of the speakers were former Project SEED students, it was clear that Sue has continued to mentor these young ladies even after they have left the program. She becomes a life-long mentor to many students and helps them not only with academic pursuits but with

personal goals as well. One common theme was that Sue is a persistent mentor and never lets anyone down. It was clear that the lives of the group of woman that spoke were better because her.

The pictures at right show women networking before the award presentation, award winner Sue Fahrenholtz with former SEED students, and the MWCC chair with "Gift of Mentoring" award winners.



(Photos courtesy of Sarah Carberry)



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North Jersey Awards

DR. JAYASREE SANKAR

The 2013 Recipient of the MARM Award for Excellence in High School Chemistry Teaching

Dr. Jayasree Sankar, the 2011 North Jersey Section Merrill Award recipient, is the 2013 recipient of the MARM Award for Excellence in High School Chemistry Teaching. Dr. Sankar is a popular chemistry instructor at Bergen County Technical Schools in Teterboro, NJ. She has been instrumental in introducing emerging topics such as nanotechnology and nanotechnology into the science curriculum. She received her award on May 16 at the Philadelphia Section Awards Dinner.



Dr. Sankar (left) receives the Merrill Award from Bettyann Howson.

(Photo courtesy of Tom Krone)

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Nano bot

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liposomes

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Nano: Better environment

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Nano Elevator to space

Nano Needle
ouch!
A thousand times thinner than human hair

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healthy
unhealthy

insulin tablets by Nano

Nano Polymer
Today Tomorrow computer chip

Oh, Nano!
You're just one thousandth of one millionth of a meter. Bringing chemistry, physics, and biology together. Making possible. Better quality of air. Increased strength for space elevator. Great in medical affair. Match you? No one would dare!

One of our entries placed second at her grade level in the national NCW poetry contest: Sunay Dubey, 5th Grade, Martin Luther King Jr. Elementary School, North Jersey Local Section.

(Photo courtesy of Amber Charlebois)

LOCAL STUDENTS WIN CHANCE TO QUALIFY FOR INTERNATIONAL CHEMISTRY OLYMPIAD

The North Jersey Section of the American Chemical Society is proud to announce the names of 14 outstanding high school chemistry students. The students have taken a national exam that may qualify them to become members of the U.S. National Chemistry Olympiad team that will compete in the 44th International Chemistry Olympiad (IChO) in Moscow, Russia, July 15-24, 2013.

Student	School
Ian Peczak Teacher: Margaret Mitchell	Ridge HS
Jeffrey Cai Teacher: Richard Bard	Ridge HS
Vaidehi Upadhyaya Teacher: Daniel Chilowicz	Clifton HS
Andrew Brod Teacher: John Yi	Millburn HS
Alex Nie Teacher: Susan Spadafina	Livingston HS
Larry Chen Teacher: Susan Spadafina	Livingston HS
David Zhou Teacher: Michele Lumsden	John P Stevens HS
William Tong Teacher: Michele Lumsden	John P Stevens HS
Andrew Cho Teacher: Rocco J. Galante	Bergen County HS
Agustin Zavala Teacher: Jeanne Marie McNamara	St. Joseph HS
Jessica Xu Teacher: Michael Gangluff	Watchung Hills Regional HS

Rohit Biswas Watchung Hills Regional HS
Teacher: Michael Gangluff

Kevin Chen Watchung Hills Regional HS
Teacher: Michael Gangluff

Grace Zhang East Brunswick
Teacher: Leslie Anderson

The IChO involves a series of theoretical exams, laboratory exercises, and other activities aimed at identifying the best chemistry students from participating nations from around the world. The U.S. has participated in this event since 1984. In 2012, the U.S. team won one gold and three silver medals. A total of 275 students represented 75 countries at the 43rd IChO, in Washington, DC.

The 14 local nominees are among over 11,000 nationwide that have taken a national qualifying exam April 13, 2013 to select finalists. Twenty students will be identified and will undergo intensive training June 4-19 at the U.S. Air Force Academy in Colorado. The top four of the 20 will be chosen to represent the U.S. in the 44th IChO competition.

Breaking News: I just learned (this morning!) that Jessica Xu, Grace Zhang and Alex Nie have qualified to attend the study camp in Colorado, and are among the top 20 Chemistry Olympiads in the country! The North Jersey chapter sends its deepest congratulations and best of luck to them in their quest for IChO in Moscow.

Founded in 1876 and chartered by Congress, the American Chemical Society is a nonprofit scientific and educational organization dedicated to the advancement of chemistry in the public interest. The North Jersey Section is one of 189 across the nation serving more than 160,000 members. For more info, contact: raybaylouny@optonline.net.



Top of rock (left to right)
Ian Peczak, Alex Nie,
Andrew Cho, Jessica
Xu, Agustin Zavala.

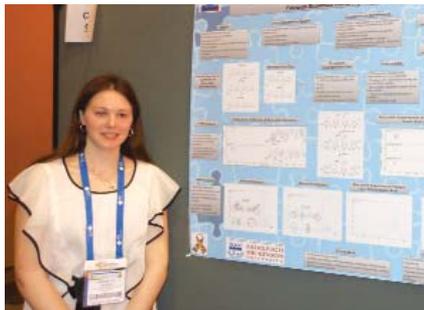
On grass (left to right)
Jeffrey Cai, Larry Chen,
Grace Zhang, Vaidehi
Upadhyaya, David Zhou,
Rohit Biswas, Kevin
Chen, Andrew Brod,
William Tong.

*(Photo courtesy of
Ray Baylouny)*

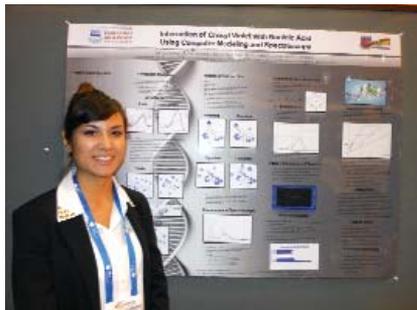
UNDERGRADUATE TRAVEL GRANT

In 2013, the North Jersey Section established the Undergraduate Student Travel Grant program to financially aid four (4) students who will present research papers or posters at an ACS National Meeting. Selection of recipients depends upon the scientific merit of the paper, academic let-

ters of support and membership in the North Jersey Section. The 2013 awardees were Andrew Apicello (College of New Jersey), Kristen DeMeester (College of New Jersey), Katelyn Lewis (Fairleigh Dickinson Univ.) and Megan Vallejo (Fairleigh Dickinson Univ.). Each student presented his/her poster at the National Meeting in New Orleans, April 8-10, 2013.



Katelyn Lewis with her research poster.



Megan Vallejo with her research poster.

Both young women presented their research at the SCIMIX Undergraduate Poster Session.

(Photos courtesy of Bettyann Howson)

NMR TOPICAL GROUP

Supported by Nexomics Biosciences, a New Jersey based Contract Research Organization (CRO) specializing in protein sample and structure determination services

This work was supported by grants from the NIGMS Protein Structure Initiative U54-GM094597 (to G.T.M.), NIH U01-AI074497 (to G.T.M. and R.M.K.), and NIH R01-AI11772 (to R.M.K.).

19F NMR as a Direct Probe of Intermolecular Interactions by Non-Structural Protein 1 from Influenza A Virus

Speaker: James M. Aramini, Ph.D.
Research Assistant Professor
Center for Advanced
Biotechnology and Medicine
Rutgers, The State University of
New Jersey, Piscataway, NJ

Non-structural protein 1 of influenza A virus, NS1A, is a key multifunctional virulence factor produced in the infected host cell that plays a critical role in evading the host antiviral response. This highly conserved hub protein in influenza infection is comprised of two domains: an N-terminal double-stranded RNA-binding domain (RBD)

and a C-terminal effector domain (ED) which binds to a plethora of host cellular proteins. Isolated RBD and ED domains of NS1A both exist as homodimers in solution.

Since the 1960s, 19F has been recognized as a valuable NMR probe for biological systems due to its numerous favorable NMR properties, including its nuclear spin ($I = 1/2$), high natural abundance (100%), extremely high sensitivity, wide chemical shift range, minimal inherent background 19F signals, and the exquisite sensitivity of its chemical shift to changes in local environment.

Date: Wednesday, June 12, 2013

Times: Dinner 6:00 PM
Seminar 7:00 PM

Place: Fuji Japanese Sushi & Seafood
1345 US Rt 1
North Brunswick, NJ

Cost: Dinner \$10 (no charge for students / postdoc / retired)
No charge for seminar only.

Register online at
<http://www.njacs.org/nmr.html>
or via e-mail to gvts@cabm.rutgers.edu

Directions: <http://www.fujiseafoodbuffet.com/directions.php> — Please note that Path Mark is no more. Fuji is on US 1 Southbound.

COUNCILOR TALKING POINTS SUMMARY OF GOVERNANCE ACTIONS/REPORTS

AMERICAN CHEMICAL SOCIETY 245th ACS NATIONAL MEETING NEW ORLEANS, LA APRIL 7-11, 2013

The following is a summary on key actions of the ACS Council and Board of Directors at the 2013 spring national meeting.

ACTIONS OF THE COUNCIL

Election Results

- The Committee on Nominations and Elections presented to the Council the following nominees for selection as candidates for President-Elect, 2014: G. Bryan Balazs, Charles E. Kolb, Jr., Carolyn Ribes, and Diane Grob Schmidt. By electronic ballot, the Council selected G. Bryan Balazs and Charles E. Kolb, Jr. as candidates for 2014 President-Elect. These two candidates, along with any candidates selected via petitions, will stand for election in the Fall National Election.
- The Committee on Nominations and Elections announced the results of the election to select candidates from the list of nominees to serve as Directors from District II and District IV on the Board of Directors for the term 2014-2016. Nominees for District II included George M. Bodner, Jed F. Fisher, Alan A. Hazari, and Robert A. Pribush. Nominees for District IV included John P. Fackler, Jr., Rigoberto Hernandez, Larry K. Krannich, and John A. Whittle. By mail ballot, the Councilors from these districts selected George M. Bodner and Alan A. Hazari as District II candidates; and Rigoberto Hernandez and Larry K. Krannich as District IV candidates. Ballots will be mailed on or before October 10 to all ACS members in District II and District IV for election of a Director from each District.

Candidates for Directors-at-Large

- The Committee on Nominations and Elections announced the selection of the following candidates for Directors-at-Large for a 2014-2016 term: Susan B. Butts, Thom H. Dunning, Jr., Dorothy J. Phillips, and Kathleen M. Schulz. The election of two Directors-at-Large from among those candidates and any selected via petition will be conducted in the fall. Ballots will be mailed to the Council on or before October 10.

Committee Election

- Two vacancies on the Committee on Committees were created by the election of Ingrid Montes to the ACS Board of Directors and the appointment of H.N. Cheng as chair of the Committee on International Activities. Prior to the New Orleans meeting, the Committee on Nominations and Elections presented to the Council the following slate of candidates for membership on the Committee on Committees beginning 2013: Christopher J. Bannochie, Arindam Bose, David Lohse and Jason Ritchie. Christopher J. Bannochie and Jason Ritchie were selected to fill three-year and one-year terms, respectively.

Committee Review

- As part of a regular performance review, the Council VOTED unanimously to continue the Committees on Chemical Abstracts Service, Environmental Improvement, and Younger Chemists. Continuation of these three committees requires Board concurrence.

Re-alignment of Electoral Districts

- At the 2012 fall meeting, Councilors called for a broader and long-lasting solution to requirements that Board electoral districts have parity in member populations. At this meeting, the Committee on Nominations and Elections reported on their discussions of a revised redistricting proposal which brings all six election districts within 400-1,000 members of the mid-point of the permissible range. This proposed action is designed to eliminate the need for frequent small changes for some time to come. The proposal will be up for vote at the fall Council meeting in Indianapolis.

Society Finances

- Despite the sluggish economy, ACS generated favorable operating results in 2012. Total revenue was \$490.7 million, which was \$6.1 million or 1.3% greater than the approved budget, and 3.9% higher than 2011. The Net from Operations was \$20.2 million, or \$4.3 million favorable to budget. This was largely attributable to better-than-expected performance by ACS Publications and CAS, and represents the Society's 9th consecutive year of positive operating results. While operating performance was favorable, Unrestricted Net Assets declined \$1.4 million to \$100.6 million. Finally, ACS ended the year in compliance with four of the five Board-established financial guidelines.

(continued on page 20)

COUNCILOR TALKING POINTS

(continued from page 19)

2014 Member Dues

- The Council VOTED to set the member dues for 2014 at the fully escalated rate of \$154. This rate is established pursuant to an inflation-adjustment formula in the ACS Constitution and Bylaws.

Petition to Amend the Constitution and Bylaws

(For Action)

- After discussion, a vote to approve the Petition to Amend National Election Procedures FAILED (85% against, 15% in favor). The petition sought to shorten the campaign period for candidates for President-Elect and to charge the Committee on Nominations and Elections (N&E) with proposing two candidates for President-Elect. Currently, N&E proposes four nominees from which Council selects two candidates. Under the petition, Council would no longer vote on a list of nominees. In collaboration with the Committee on Nominations and Elections, the Council Policy Committee authorized a joint task force on election timelines and procedures. This task force will examine the entire election system.

Member Statistics

- Society membership at the end of 2012 was 163,322 - 893 lower than the total for year-end 2011 despite recruiting 24,943 new members. The net loss occurred primarily in the Regular, full member category. There was continued growth in both the Student Member undergraduate and international categories, which helped mitigate the overall decline in membership. The Membership Affairs Committee approved five pilot market data tests to increase membership.

Attendance Report

- As of this morning (April 11, 2013), the ACS spring national meeting had attracted 15,596 registrants, including 8,105 regular attendees and 5,793 students. The meeting had 11,232 papers presented.

Academic Professional Guidelines

- The Council VOTED to approve the Academic Professional Guidelines as submitted by the Committee on Economic and Professional Affairs. These guidelines apply to those members of the academic

community whose job function impacts directly or indirectly on scientists practicing the profession of chemistry.

Local Section Allotment Formula

- The Council VOTED to approve a new formula for the distribution of allocations to individual Local Sections beginning in 2014. The new allocation will be divided as follows: base allotment (49%); per member allotment (43%), and LSAC program funds (8%).

Divisional Activities Name Change Request

- The Divisional Activities Committee (DAC) received a request from the Division of Colloid and Surface Chemistry to change its name to the Division of Colloids, Surfaces and Nanomaterials. Six divisions have registered opposition to the proposed name, largely due to the use of the term 'nanomaterials'. DAC will ask Council to vote on the new name in Indianapolis, with a recommendation to approve.

Revision to Charter Bylaws for the International Chemical Sciences Chapters

- The Council VOTED to approve changes to the Charter Bylaws for New International Chemical Sciences Chapters. These changes will guide the Committee on Constitution and Bylaws in reviewing bylaw changes before proposed changes are approved by the membership of the new chapter.

New International Chemical Sciences Chapter

- The Council VOTED, in concurrence with the Board of Directors, to approve the petition to charter the Romanian International Chemical Sciences Chapter, consisting of the Territory of Romania.

Special Discussion Item

- A special discussion item was put on the Council agenda for this meeting. ACS President Marinda Li Wu presented and moderated a discussion on "What else should ACS do to help members to thrive in the global chemistry enterprise?" ACS has established a strategic goal to "Empower an inclusive community of members with networks, opportunities, resources, and skills to thrive in the global economy." In support of this goal, President Wu commissioned a task force entitled, "Vision 2025: Helping ACS Members Thrive in the Global Chemistry Enterprise," to identify globaliza-

tion opportunities and engage members in advocacy for improving the business and job climate. Following the presentation, 29 Councilors engaged in a robust discussion on what the Society currently offers or could offer to help members thrive in the global chemistry community.

ACTIONS OF THE BOARD OF DIRECTORS

The Board's Committees and Working Groups

- The Board of Directors received reports from its committees on Grants and Awards (G&A), Executive Compensation, Professional & Member Relations (PM&R), Planning, and the oversight group on Society Program Portfolio Management.
- The Committee on Grants and Awards presented the Board with screened lists of nominees for the 2014 Priestley Medal and the Award for Volunteer Service to the ACS. The Board VOTED to approve the screened lists, and will now vote on, and announce, the winners of these two awards at its June meeting. The Board also VOTED to approve a Society nominee for the National Medal of Science.
- On the recommendation of the Committee on Executive Compensation, the Board VOTED to approve several actions relative to compensation for the Society's executive staff. The compensation of the Society's executive staff receives regular review from the Board of Directors.
- On the recommendation of the Committee on Professional & Member Relations, the Board VOTED to approve an alliance with the Latin American Federation of Chemical Associations (FLAQ) and to renew an alliance with the Chinese Chemical Society. The signing ceremony for alliances with the Chinese Chemical Society and the South African Chemical Institute (which was previously approved) took place prior to the open meeting of the Board of Directors. The signing ceremony for FLAQ will take place at the fall national meeting.
- The Committee on Planning led a discussion based on its initial findings from the ACS Environmental Scan/Strategic Context Research; and the oversight group on Society Program Portfolio Management briefed the Board on its current activities, including plans for the remainder of 2013. In 2012, the oversight group outlined a process to effectively and efficiently enable

the Society to routinely manage, prioritize and rebalance its portfolio of diverse Society programs. Currently, the oversight group is developing the necessary processes, tools, and documentation related to the initiative to put a process in place for 2014.

The Executive Director/CEO Report

- The Executive Director/CEO and her direct reports updated the Board on the following: highlights of accomplishments from 2012; the major challenges and projects facing the Society in 2013; and the activities of CAS (Chemical Abstracts Service), the ACS Publications Division, and the Society's General Counsel. As part of the Publications report, the Board VOTED to approve journal editor re-appointments and an appointment to the ACS Governing Board for Publishing.

Other Society Business

- The Board ratified several of its interim actions, including an appointment to the Committee on Executive Compensation.
- The Board also received reports from the Presidential Succession on their current activities and plans for the remainder of 2013 and the beginning of 2014; a briefing from the new director of the ACS Green Chemistry Institute®; and a report on the newly instituted ACS Career Pathways™ Workshops.

The Board's Open Session

- The Board held a lively, well-attended open session which featured a special forum focused on two questions: 1) "What one thing would you like from ACS that you don't get now?" 2) "What one thing do you get from another organization that you wish you got from ACS?" Members attending this standing-room only session received a brief overview of current Society offerings followed by an exchange of several ideas on future services and products.

Local Section Resources

www.acs.org/getinvolved - grant information, important deadlines and officer resources

www.acs.org/forms - submit annual reports, record meetings, activities and events year round

speakers@acs.org - nominate speakers for Online Speaker Directory

outreach@acs.org - information on "Celebrating Chemistry" for 4th - 6th graders

National

ASK AN ACS CHEMIST

Do you remember being a student, and searching for an answer to a relatively simple question for a term paper, homework or maybe project of some sort? Rather than spending copious amounts of time perusing periodicals and journals, it would have been much easier to pose your question directly to someone who has expertise in the field, right? Well, there are many students now facing the same dilemma and we would like you – the expert – to lend them a helping hand.

The ACS is launching a new program called “Ask an ACS Chemist”. Our Publications Division technical support for ACS journals receives roughly 10-15 science-related inquiries each week, typically from high school and undergraduate students. The questions are usually along the lines of:

- How does the microscopic method determine particle size?
- Which enzyme is inhibited by zinc in Alzheimer’s?
- What is chemical equilibrium?

Currently when we receive these questions, one of our staff members will direct them to a host of journals where the student may or may not find an answer. We would like to offer the students a more personal touch by funneling those questions to a collective of scientific professionals, such as yourself, and allowing you to share your expertise on the subject matter. We anticipate this initiative will require very little commitment on your end; you may contribute as often as you choose. The format will be a forum of threaded posts in an ACS Network group to which you would be invited to join. You would then begin receiving the notifications as new questions are posted and can log in to view and/or comment where you feel comfortable. All we would need from you to participate is to merely reply to this email letting us know you are interested and we will invite you to join the Network group. Just think how immensely such a modest connection between yourself and a student could impact their future in chemistry.

If you have any questions about this program, feel free to contact outreach@acs.org at any time. We look forward to your participation.

ACS’s CM&E GROUP GIVES AWARD TO MARCELO ODEBRECHT, CEO AND PRESIDENT OF ODEBRECHT S.A.

This recognition of Odebrecht’s exceptional global growth is awarded by the business and investment group of the ACS New York Section

New York City and Sao Paulo (April 25, 2013) – Chemical Marketing and Economics (CM&E), the business and investment group of the American Chemical Society’s New York Section (ACS NY), announces that Marcelo Odebrecht, President and CEO of Odebrecht S.A., has been honored with the Leadership Award for Outstanding Global Growth, which recognizes the exceptional contribution to the advancement of society and in particular to the chemical industry through Braskem, a company that is controlled by Odebrecht.

The award will be presented at a ceremony in the New York City Yale Club on December 5, 2013 as part of CM&E’s Fourth Annual Mergers and Acquisitions event in which two other honorees will also be recognized for a lifetime of achievement and for distinction in private equity.

Prior to these awards, ACS NY’s illustrious history has been supported by the Nichols Medal for eminent scientific discoveries. Since 1903, 108 scientists have received such Medal, and 16 of them became Nobel Prize winners in Chemistry. The Leadership Awards were established in 2012 by ACS NY CM&E to recognize those who have demonstrated outstanding leadership in business activities that advance chemistry for the benefit of Earth and its people.

Under the leadership of Marcelo Odebrecht, Odebrecht S.A. has become a prominent builder of the continent of South America and one of the fastest growing conglomerates achieving sales of over \$40 billion in 2011. Odebrecht’s contributions in the world of chemistry are evident through Braskem, which is the Americas’ top thermoplastic resins producer and the world’s fifth petrochemical producer. With 36 industrial plants spread across Brazil, United States and Germany, the company produces over 35 billion pounds of thermoplastic resins and other petrochemicals per year. Braskem is also the world’s leading biopolymers producer with its 440 million pound Green PE plant that produces polyethylene from sugarcane-based ethanol.

"Mr. Odebrecht's record in capturing growth opportunities in a vast array of industries and creating value through bold strategies is truly outstanding," said Mr. George Rodriguez, Chairman of CM&E, Board member of ACS NY Section and Director at Argeni. "In addition, his commitment to environmental and social responsibility initiatives symbolizes the visionary quality of a leader."

"I am honored to receive this CM&E award on behalf of all employees at the Odebrecht and Braskem family of companies," Mr. Odebrecht said. "The American Chemical Society, and in particular the CM&E group, provides a rich forum for industry insights that also helps support STEM education, the engine of global economic progress. I congratulate CM&E for dedicating 59 years of service to the society."

For registrations and sponsorships of the December 5, 2013 Leadership Awards and Fourth Annual M&A Event in support of STEM education, please go to www.cmeacs.org or send an email to contact@cmeacs.org.

About Odebrecht

Odebrecht is a global organisation founded in Brazil in 1944 as a construction company. It grew, diversified its business areas and nowadays has been operating in heavy construction, infrastructure, environment, real estate development, properties, energy, oil and gas, chemical and petrochemical sectors, defense and technology, naval construction, agribusiness, transportation and logistics, stakes and investments. With operations in 24 countries in five continents, Odebrecht has products sold in 70 countries, and employees of over 70 different nationalities. For additional information please contact:

Chuck Glazer, Communications
Braskem America
Phone: 215 841 3173, Fax: 215 841 3195
Chuck.glazer@braskem.com

Grants Available

ACS LEADERSHIP DEVELOPMENT SYSTEM™ GRANTS

The Committee on Local Section Activities (LSAC) is pleased to offer a limited number of grants to local sections that wish to host ACS Leadership Development System™ courses in 2013. This partnership between

the ACS Leadership Advisory Board (LAB) and LSAC will allow your local section to provide a tangible member benefit to your local section members at no charge.

Grant Details:

- A limited number of grants (up to \$3,000) are available to local sections that wish to host an ACS Leadership Development System™ course in 2013
- Upon grant approval, eligible local sections will be awarded \$1,800 to cover the registration fees (\$150pp) for the first 12 participants that register for the course.
- Additional grant monies up to \$1,200 will be awarded to local sections to offer additional scholarships*.

Local sections may choose to host the following courses:

- Engaging Colleagues in Dialogue
- Engaging and Motivating Volunteers
- Fostering Innovation
- Coaching and Feedback
- Collaborating Across Boundaries
- Leading Change
- Leading Without Authority
- Developing Communication Strategies
- Strategic Planning

Local sections must submit a **grant application by June 15, 2013**. Grant funds are limited and will be awarded on a first-come, first-served basis.

All courses are facilitated by an ACS member that has been trained and certified to teach the course. ACS provides all course materials, a computer and projector, and will assist in promoting the course to the members in your section. Local sections are responsible for reserving a meeting room (with a screen and flipcharts) providing a light snack for attendees and assisting with course promotion on their website, mailings and meeting announcements.

ACS Leadership Development System courses provide participants with an opportunity to learn essential skills that will strengthen their competitive edge in today's global economy. For more information about these courses and course scholarships please visit our webpage or contact us via email (C.Brown@acs.org).

The deadline for a grant application is **June 15, 2013**. For more information and a grant application, click on **ACS Leadership Development System Grants Available to Local Sections**.

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