

ANNUAL REPORT OF THE NEW YORK SECTION FOR 2014

This report is an abbreviated version of the full report submitted to National ACS.

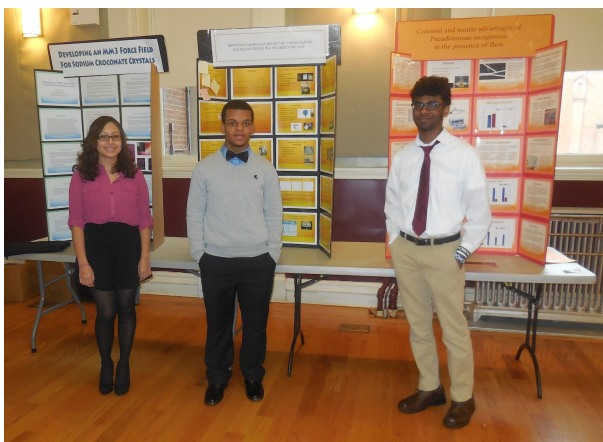
Section-wide Conference:

The New York Section began the year with its annual **Section-wide Conference** of the New York Section that was held on January 18th at the College of Mount Saint Vincent in Riverdale, NY. Dr. Pamela K. Kerrigan, 2014 New York Section Chair, hosted the event. The conference began with a continental breakfast for all attendees. Dr. Kerrigan opened the event by welcoming the Project SEED students, the Officers and Committee Chairs, and all ACS member guests. The Section-wide conference included the presentation of awards for volunteerism and achievement, a keynote address by Dr. John C. Warner, research presentations by Project SEED students, breakout planning sessions for the year 2014, and a colleague get together luncheon.



At the award ceremony, Dr. Philip H. Mark received the ACS plaque, past chair pin, and gifts of appreciation for his excellent work as Chair of the New York Section in 2013. The 2013 Outstanding Service Award went to Dr. Marc A. Walters of New York University who chaired the New York Section in 2008 and now oversees the Government Affairs Committee. The Section presented the Nichols Foundation High School Chemistry Teacher Award for 2013 to Dr. Mina Haghjoo Armani of Union City High School, NJ. Mr. Stephen Radice introduced Dr. Armani and enumerated her many accomplishments as an outstanding chemistry teacher in the New York Section. Dr. Paris Svoronos, 2014 Chair-elect of the New York Section, then presented the names of the candidates for the upcoming 2014 elections and introduced those candidates who were present.

Dr. John C. Warner, President and Chief Technology Officer for Warner Babcock Institute for Green Chemistry, Inc., presented the keynote address titled “Entropic Control in Materials Design as an Example of Green Chemistry.” The audience was most attentive to Dr. Warner’s informative and exciting presentation on green chemistry.



Project SEED students, accompanied by Project SEED coordinator, Nadia Makar, attended the conference and displayed the results of their research. Their posters were excellent and their appreciation of the support for Project SEED by the Section was evident. During the high school years, they have thoroughly enjoyed working with local chemists as they developed their research skills.

The last hour of the conference was devoted to a planning session for subsections, topical groups, and committees and it concluded with reports from the Chairs of each of the groups. The traditional luncheon with colleagues was enjoyed by many at the Riverdale Steakhouse

William H. Nichols Symposium and Medal Award Dinner:

The most popular event of the year is the **William H. Nichols Symposium and Medal Award Dinner**. The Annual 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 through the support of Dr. Nichols, his family and the Nichols Foundation, Inc. The William H. Nichols Medal is the first award presented by the American Chemical Society.

The William H. Nichols Medal Award for 2014 was presented to Dr. Amos B. Smith, III of The University of Pennsylvania on March 28, at an award dinner at the Crown Plaza Hotel, White Plains, NY. Dr. Smith received the Nichols gold Medal for "Outstanding Contributions to Synthetic Organic Chemistry." In attendance were 280 people including industrial chemists, students and faculty from New York Section colleges and universities.



The William H. Nichols Distinguished Symposium, that preceded the award dinner, was titled "New Strategies and Tactics for Complex Molecule Synthesis" and featured internationally known speakers: Dr. Karl J. Hales (Queen's University Belfast); Dr. Yoshito Kishi (Harvard University), Dr. John I. Wood (Baylor University), and Dr. Smith who gave the Award Lecture titled "Evolution of Anion Relay Chemistry (ARC): Design, Synthesis and Validation." Professor Phil H. Mark, Chair-elect of the New York Section, emceed the symposium, introducing each speaker. The Nichols Distinguished Symposium was enjoyed by all attendees, most of whom attended the social hour and the award dinner that followed.



At the award dinner, Dr. Pamela K. Kerrigan, 2014 Chair of the ACS New York Section, welcomed the guests and told the History of the Nichols Medal. Dr. William F. Carroll, Chair of the ACS Board of Directors, brought greetings and congratulations from the American Chemical Society. Dr. Carl R. Johnson of the Wayne State University introduced his good friend and colleague, Amos Smith. Chair Kerrigan then awarded the gold medal, identical bronze medal and \$5000 to Dr. Smith, who was accompanied by his wife, Janet, son Matthew and daughter Katelyn. The Medalist then happily met with students and posed for pictures with them.

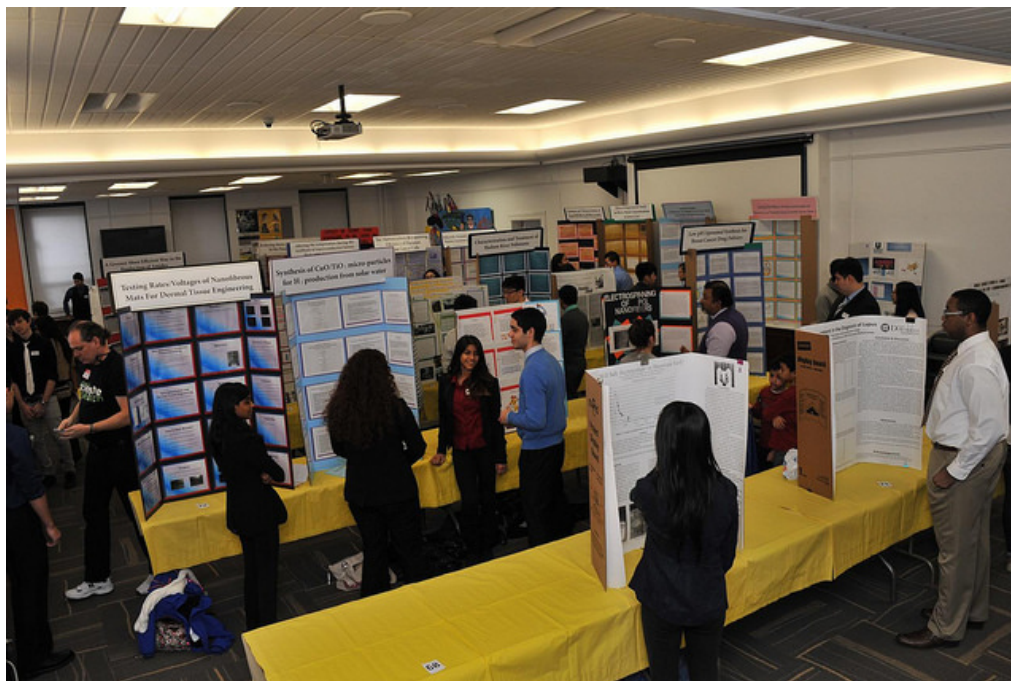
Members of the Nichols family also enjoyed this special event. It was a great pleasure to have three generations of the Nichols family present.

SUBSECTIONS:

The **Brooklyn Subsection**, chaired by Dr. Theresa Cea, co-sponsored three excellent events. The first was Brooklyn College's H. Martin Friedman Lecture on May 1, 2014. Prof. Vern Schram of Albert Einstein College of Medicine presented "Drug Design from Transition State Analysis" to a crowd of 154 attendees.

For the NCW Brooklyn High School Chemistry Day, the Brooklyn Subsection and Brooklyn College invited local H. S. Chemistry classes to campus during NCW. There was a 'Chemistry Magic Show' by Prof. Brian Gibney and a tour of the laboratories. After a lunch, the students worked 'The Ultimate Periodic Table Challenge' hosted by the College Student Members. A periodic table assembled by 123 H. S. students was placed on display outside the department office. An outstanding student from each high school was presented with an award certificate at an award ceremony.

This annual poster competition for high school students, sponsored jointly by the Brooklyn Subsection of the NY Section and St. Joseph's College, took place on Saturday, February 1st, 2014 on the SJC Brooklyn Campus. There were 112 poster presentations and 125 participants registered in this year's event, making it the most well attended competition to date. Students from 7 area high schools attended and the quality of the research was also better than ever. All of the students received certificates, the winners and honorable mentions received a gift bag from St. Joseph's College, and the winners also received gift cards from Barnes and Noble.



The **Hudson-Bergen Subsection**, chaired by Mr. Thomas Drwiega, held a meeting, jointly with the Sigma Xi chapter of Ramapo College, at Ramapo College of New Jersey on February 20th, 2015. Dr. Robert Clarke delivered a talk entitled “What can we learn about breast cancer by combining mathematics and computer science in a systems biology approach to research?” Another lecture was held at New Jersey City University on February 24th, 2015 with speaker Dr. Bumjung Kim of New Jersey City University. A meeting, jointly with the School of Natural Sciences of Fairleigh Dickinson University and **The 17th Annual Undergraduate Research Symposium and Student Award Night** (presented to the chemistry senior with the highest GPA from each participating colleges), was held on Friday May 1, 2015, at Fairleigh Dickinson University. Certificates and books were presented to the awardees and all the student presenters. 11 posters were presented. Attendance: 90. Dr. Catherine Royer from RPI delivered a talk on her research entitled “Mapping Protein Folding Landscapes with High Pressure NMR”.

The **Long Island Subsection**, chaired by Dr. Paul Sideris, was also very active in 2014. It held eight board meetings, six seminars, the 25th High School Awards Night and the 14th Annual Chemistry Challenge. The 25th annual Long Island ACS High School Awards program was held at Nassau Community College on May 15th, 2014. Approximately 130 students, family, teachers, school administrators and LI-ACS members attended. The 14th Annual Chemistry Challenge was held at Queensborough Community College where 66 students in teams from 9 local college and universities used clickers to answer 45 multiple-choice questions testing concepts from General and Organic Chemistry. Awards were given to the top three teams in each student category (2-and 4-year teams were formed based on the students' standing). This year we also offered a special event for NY ACS members and their spouses, a trip to JP Palmer Vineyards in Riverhead Long Island, NY. Winemaker Miquel Martin discussed the chemistry involved in winemaking, gave a tour and also provided a tasting of the Palmer wines. The LI Subsection's 2014 program ended with its Networking Seminar/Dinner Holiday Social in December



The **Westchester Subsection**, chaired by Rolande Hodel, held six monthly seminars by distinguished men and woman chemists during 2014. The Distinguished Scientist Award Meeting was held on May 1st and the award was given to Dr. James Wynne for “discovering excimer laser surgery, the foundation for LASIK and PRK surgery, and for leadership in enhancing the science education of Westchester County students.” The title of his talk was “Excimer Laser Surgery — The Foundation for Laser Refractive Surgery and Future Applications.” This meeting also featured College Student Achievement Awards.

TOPICAL DISCUSSION GROUPS:

The **Analytical Topical Group** chaired by Dr. Robert Nolan, hosted three seminars in 2014 with the participation of the forensic science faculty and students from John Jay School of Criminal Justice and invited faculty and students from other NYC area forensic and analytical programs to attend our seminars. The Seminars had attendance of about 30. The dates and title follow: October 9 - “10-Years and Free at Last because of Forensic Science” and “Don’t Mess with the Bouncer” by Dr. Peter Diaczuk and Dr. Thomas Kubic; October 9 - “Quantitative Provenance: Using Bayesian Networks to Help Quantify the Weight of Evidence in Fine Arts Investigations” by Dr. Nick Petraco and on December 11 - The Polar Bear, Microscopy and Authenticating a Pollack by Nick Petraco, Sr.

The **Biochemical Topical Group**, chaired by Dr. Thomas Franke, had another very active in 2014. The Biochemical Topical Group of the NY ACS and the Biochemical Pharmacology Discussion Group (BPDG) of the New York Academy of Sciences (NYAS) collaborate. Together, they sponsored 8 symposia. The topics and speakers are selected from Proposals submitted to the Steering Committee. The 8 receiving the most votes constitutes the next year's Program. The scientist who suggests the topic then chairs that meeting. The symposia were held at NYAS, 7 World Trade Center. Half-day symposia had 4-5 speakers and 7-8 speakers for full- day symposia. Coffee breaks in the middle of each session enabled interactions. Full day symposia included a subsidized lunch and a reception follows, enabling discussion and interactions. More than 100 scientists attend each symposium. The NYAS, The ACS New York Section and various pharmaceutical and biotech companies subsidize these symposia. The purpose of this topical group is to bring together diverse institutions and communities, industrial and academic, to share new and relevant information at the frontiers of research and development.

The **Chemical Marketing and Economics Topical Group**, chaired by George Rodriguez, had another extraordinarily active year. The Group has monthly luncheon meetings that took place September through June on the first Thursday of

each month. At these meetings the presentation lasted usually for 45 minutes, followed by a question and answer period. Luncheon and the presentation were preceded by an informal social hour for networking



The third annual CM&E Leadership Awards were presented at a banquet at the Yale Club on December 4th. The quality of the honorees was excellent and included icons such as Andrew Liveris, Chairman and CEO of Dow Chemical, Dr. Thomas Connelly, Executive VP and Chief Innovation Officer of DuPont, Thomas Kichler, Managing Director of One Equity Partners, the private investment arm of JP Morgan Chase. The Keynote was David Womack, Global Head of Chemicals & Petroleum of IBM Watson. There was excellent attendance at this enjoyable banquet.

CM&E has brought the spotlight to STEM education by making it an integral part of its Awards presentation. CM&E subsidizes student luncheons. Over 20% of attendees at our largest event were students from high school to college (undergraduate and graduate levels). CM&E had an excellent year.

The **Computers in Chemistry Topical Group** of the New York Section, chaired by Dr. Seogjoo Jang, participated in the organization of the 5th New York Theoretical and Computational Chemistry Conference (NYTaC³), which was hosted by Prof. Carlos Simmerling at the Stony Brook University on March 21, 2014. The total number of registered participants was 87 participants. The following 8 invited speakers gave oral presentations: Nandini Ananth (Cornell University), Scott Auerbach (University of Massachusetts), Ken Dill (Stony Brook University), Themis Lazaridis (City College, CUNY), Ping Liu (Brookhaven National Lab.), George Makhatadze (Rensselaer Polytechnic Institute), Vikas Nanda (Rutgers University), Robert Rizzo (Stony Brook University). In addition, there were more than 20 poster presentations.

The major sponsor of the event was the Laufer Center at the Stony Brook University. The Initiative for Theoretical Sciences at the CUNY Graduate Center and the ACS Computers in Chemistry division also made financial contributions. The NY-ACS supported the dinner expense for organizers and speakers.

The **High School Chemistry Teachers Topical Group**, chaired by Mrs. Jean Delfiner and Mrs. Joan Laredo-Liddell, co-sponsored, with the Physics Teachers Club of New York, had eight excellent meetings that included seminars, presentations and the very popular nonstop Demo Derby. For example, the meeting in February featured speaker Dr. Harry Gafney, Queens College, who spoke on "Artificial Photosynthesis, An Excited State Acid-Base Process." And the October meeting featured a talk by Teresa J. Bandosz, Departments of Chemistry and Chemical Engineering, CCNY on her research called "New Separation and Adsorption Media for a Number of Important Toxic and Non-toxic Gases." The talks covered a wide range of science subjects.

The **Inorganic and Organometallic Topical Group**, chaired by Dr. Kathleen Kristian and Dr. James Camara, hosted the third annual Frontiers of Inorganic and Organometallic Chemistry lecture symposium and the 1st annual ION (Inorganic, Organometallic, Nanoscience) Poster Session on Friday, September 19, 2014 on the campus of Columbia University. The event attracted a record audience of more than 100 academic and industrial chemists, including graduate and undergraduate students, to hear about new developments in inorganic chemistry from chemists in the NY metro area.

The symposium featured presentations by NY section members Ged Parkin (Columbia University), Jianfeng Jiang (Yeshiva University), Adam Fischmann (Cytec Industries), and Daniela Buccella (NYU). Geoffrey Coates (Cornell University) delivered the keynote address entitled "Bimetallic Catalysis – Are Two Metals Better Than One? Applications in the Synthesis of Natural Products, Fine Chemicals, Pharmaceuticals, and Polymers". The Topical Group co-chairs James Camara and Kathleen Kristian served as session chairs for the symposium.

The **Nanoscience Topical Group**, chaired by Dr. James Canary, has, since its inception in March 2003, been enjoying a steady gain in popularity. The NYNDG generally meets 3 or 4 times per year, ideally twice in the fall semester and twice

in the spring semester. In 2014, the group met three times. The regular meetings take place at New York University on Tuesday evenings, beginning at 7:00pm with greetings and refreshments, followed by science at 7:30pm. The science consists of three speakers, representing different areas of nanotechnology within different disciplines. Speakers have hailed from universities such as Columbia, SUNY Stony Brook, CUNY and NYU, as well as from research institutions and industry such as Sloan Kettering Institute and IBM. Departments represented have included, chemistry, physics, biomaterials and biomimetics, radiology and pathology, and chemical engineering, to name a few. Each speaker presents for 25 minutes, and entertains questions for 5 minutes. The atmosphere is informal and collegial. In preparation, the schedule of meetings is set, a series of diverse stimulating panels is decided upon, invitations are extended to the speakers, and the event is promoted to an ever-growing list of more than 100 scientists in the tri-state area, as well as the 150 members of the NYU Department of Chemistry. We have received excellent feedback from all quarters and are very pleased at the results of our efforts. Meetings were held on April 8th, June 10th and Nov 11.

The **Organic Topical Group** hosted two seminars in 2014 in collaboration with the New York Academy of Science's Chemical Biology Discussion Group. The goal of the 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 Sept 15th symposium, entitled "Click Chemistry in Biology and Medicine: New Developments and Strategies" by Dr. K. Barry Sharpless explored recent developments in click chemistry, including the discovery of new click reactions, which address fundamental challenges in biology and provide new technologies for disease diagnosis and therapy. The June 3rd year-end symposium featured distinguished keynote speaker Professor Michael Marletta of the Scripps Research Institute. This was followed by shorter, cutting-edge talks by graduate students and postdoctoral fellows selected from participating tristate-area institutions, and a poster session.

The **Senior Chemists Topical Group**, chaired by Frank Romano and Dr. Ralph Stephani, organized and ran a very successful 50 and 60 year ACS Member Celebration and Luncheon on May 18 at Koenig's Restaurant, Floral Park. Pictures were taken of the awardees holding their plaques with New York Section Chair Dr. Pamela Kerrigan. The awardees enjoyed describing their careers in chemistry.



EDUCATION COMMITTEES:

Chemagination:

The Eleventh Annual Chemagination High School student science essay and poster contest, organized by Dr. Vic Cesare and Dr. Gina Florio, had a total of 32 posters from 75 students from six high schools. The event was held on March 22 at SUNY Old Westbury College. Written entries were received through web submission and the electronic entries were made available to the judges prior to the day of the contest. The contest began with welcoming remarks by Coordinators

Dr. Vic Cesare, Dr. Gina Florio and Dr. Barbara Hillery (Dean, School of Arts and Sciences, SUNY Old Westbury) as well as Dr. Philip Mark, Former Chair of the New York Section. The judging of posters followed. Judging criteria included scientific thought, creativity, clarity, thoroughness, and teamwork. The first and second place winners in each category were given trophies. All participants were given certificates of participation. The first place entry in each category was invited to represent NYACS at the Regional 2014 MARM Chemagination, held this year at Princeton University on May 17, 2014.

Chemists Celebrate Earth Day:

On Sat., April 26, Pace University hosted its 3rd annual Chemists Celebrate Earth “Walk the Brooklyn Bridge” event, coordinated by Dr. JaimeLee Rizzo, in honor of Earth Day! The weather was perfect – sunny and warm! This year’s theme was, “The Wonders of Water” and it featured several guest speakers (including Dr. Philip Mark, 2013 Chair and Dr. Sue Maxam, Asst. VP of Undergraduate Research, Pace, and was followed by a glorious walk across the Brooklyn Bridge! Mother Nature was very kind as she provided a sunny and warm day for our parade!

All participants were given a goodie bag filled with Earth Day gifts (CCED bracelets, Earth Day pencils, Earth Day stress balls, etc.) and healthy snacks. Everyone wore his/her institution's logo on their clothing while carrying an Earth Day balloon across the bridge, all marching behind our Section's CCED Banner. There were over 125 participants from the following institutions: American Chemical Society, Bard High School Early Education, Becton, Dickson and Company, Certified Laboratories, City College, CUNY, College of Staten Island, Dept. of Environmental Protection Agency, Duke University, GDA Consulting, Manhattan College, Merck, Nassau Community College, New York University, NYU – Polytechnic, Pace University, Sarah Lawrence College, St. John's University, St. Joseph's College, St. Peter's University, Stanbridge Capital, Queens College, CUNY, Queensborough Community College, Tufts University, U.S. Food and Drug Administration.

In celebration of Earth Day 2014, the United States Merchant Marine Academy (USMMA) collaborated with the Great Neck Library for the 3rd consecutive year to offer a weekend filled with fun and "green" focused science experiments and demonstrations. The event was part of the NY Section's Annual Chemists Celebrate Earth Day effort. This free public event was held to promote an appreciation of our blue planet (with a focus on the oceans), encourage its sustainability, and educate the local youth about the importance of taking care of the environment. 150 Community youth ages 5-17 and their families joined the 48 USMMA midshipmen and faculty volunteers in this celebration.



Continuing Education:

A meeting entitled “Global Climate Change: Best Teaching Practices” was held on November 1, 2014 at St. John’s University. The committee started on this project when a challenge grant was first announced. A program was developed

with the thought of dispersing the project throughout the New York Section. The main thrust was to focus on the proper way to educate students and the public about global climate change. This event was structured to be part symposium by leaders in the field and part hands-on workshops for educators. The two excellent speakers were Dr. Jerry Bell and Dr. Andy Jorgensen. The three workshop (k-6th grade teachers, 7th to 12th grade teachers and finally college teachers) were developed to complete the program. Since there were very few k-6th grade teachers, the two grades were combined as a precollege workshop led by Dr. Barbara Hillary and Mr. Jordan Snaider. Neil Jespersen led the college level workshop. Certificates of Participation were completed for the attendees.

High School Chemistry Olympiad:

There were 331 students from 60 New York Section High Schools that participated in the 2014 Chemistry Olympiad competition organized by Dr. Stephen Goldberg. The Local exam was held on March 1 and March 2 at 11 test centers (the Section has a very large geographical area) and the National exam on April 27 at Adelphi University. The high score on the exam was 59 (perfect score = 60), and the low score was 12. The average score was 36.44, with a standard deviation of 11.06. Based on the size of the New York Section, 19 students were allowed to continue to the National Exam level. Of the 19 New York Section students who took the National Exam two obtained high honors and seven obtained honors. Karan Singhal of Herricks High School was invited to attend the Olympiad Study Camp.

Nichols Foundation High School Chemistry Teacher Award:

The Nichols Foundation High School Teachers Award Committee, chaired by Mr. Stephen Radice, selected Mrs. Mina Armani of Union City High School, New Jersey as the 2013 Nichols High School Chemistry Teacher Awardee for her outstanding service to chemistry education. The Award was presented to her at the January 18, 2014 Section-wide Conference. The 2014 Awardee is Dr. Matthew Christiansen of Islip High School and he received his award at the Jan 2015 Sectionwide Conference. This award was established to recognize highly effective teaching and inspirational leadership to students in chemistry. It is presented annually to an outstanding high school chemistry teacher in the ACS, New York Section. It was first presented in 1957 and is supported by the Nichols Foundation. The award consists of an ACS plaque and \$1000.

National Chemistry Week Celebration at the NY Hall of Science:

On Sunday, October 26th, 2014 from 11 a.m. to 4 p.m., about 290 volunteers from 14 colleges, universities and industries in the New York area joined in the Local Section's effort and celebrated 2014 National Chemistry Week at the New York Hall of Science, located in Queens. Through 30 tables packed with 43 fun-filled hands-on activities, the program showcased the chemical principles relating to the "Sweet Side of Chemistry: Candy" and demonstrated the values of chemistry in our everyday lives. Admission to the New York Hall of Science was FREE on the event date from 10-11 a.m., allowing the New York Local Section to effectively reach and engage over 1,000 museum visitors, especially students in grades K-8, with this highly interactive outreach program.



In keeping with this year's theme, a large-screen slideshow with images and animations was created to illustrate the chemistry of various forms of candy, and to highlight the Section's people and community events. Theme-related activities included "making your own beverage", "dancing raisins", "colorful lather printing", "scent IQ: sweets", "pop rocks acidity", "M&Ms", "sinking a marshmallow", "cornstarch boo", and "growing marshmallows". Dr. Met, the official mascot of the New York Mets baseball team, made a special appearance once again and took photos with the visitors.

Special to this year's celebration was the Section's dedication ceremony at noon that dedicated the New York Hall of Science as a New York Historic Chemical Landmark. For its 50 years of innovation, and for its long-term and on-going participation in National Chemistry Week and its devoted focus on a hands-on science and chemical education for

children, the New York Hall of Science won the New York Historic Chemical Landmark Award. Dr. Pamela Kerrigan, the 2014 New York Section Chair, and Dr. John Sharkey, the Chair of History Committee of the New York Section, presented the award to Ms. Erin Thelen, the Manager of the New York Hall of Science.

This successful NCW event was chaired by Dr. Zhaohua Dai, Dr. Ping Furlan and Mrs. Erin Rent Wasserman.

Project SEED:

As participants in the ACS Project SEED program, coordinated by Mrs. Nadia Makar, 88 students from the New York Section carried out research at different research centers from around the Metropolitan area. The host institutions included: Columbia University, Hunter College-CUNY, Saint John's University, Stevens Institute of Technology, New Jersey Institute of Technology, Saint Peter's University, Rutgers University, New Jersey City University, Rutgers Engineering School, Susan Lehman Cullman Laboratory For Cancer Research, Ernest Mario School of Pharmacy, Cook College, Mass Spectroscopy Laboratory For Food Science, Rutgers School of Environmental and Biological Sciences, the Center for Agricultural Molecular Biology, the Center for the New Use of Agriculture and Natural Plant Products, Seton Hall University, New Jersey Medical School, Montclair State University, Beth Israel Medical Center, Jersey City Medical Center, Saint Barnabas Medical Center, Drew University, Fairleigh Dickinson University and New York University.

The students participated in several Research Posters Competitions including the 28th Annual Seton Hall Research Posters Competition where our students won five of the top six awards that included lab top computers. Students were also selected to participate in the Junior Science and Humanities Symposium that took place at Rutgers University and won prizes and awards. Students also participated in the Research Posters Competition at Montclair State University and they won the top awards. At the Regional Intel Science Fair, project SEED students won ten of the fourteen gold medals, eight of the silver medals and twelve of the bronze medals. They also won most of the special awards and prizes. The two top students selected to represent the local fair at the Intel International Science and Engineering Fair were SEED students. They participated in Intel/ISEF that took place California and was attended by 1616 students from 72 different nations and all fifty states and the US Territories. One of these two students is now attending Princeton University and he received the Bill Gates Millennium Scholarship. The other student is now attending Texas A & M University on a full scholarship.

Project SEED allows students from economically disadvantaged homes to build the skills they need to succeed in college. The program helps them to build their self confidence and self esteem. This program has exposed students to the beauty of science and has helped students to build very bright future for themselves.

Student Membership Activities – Undergraduate Research Symposium:

The Student Activities Committee of the New York Section of the American Chemical Society held its 62nd URS on Saturday, May 3rd, 2014, at St. John's University, Queens, NY. Around 130 papers from 30 different colleges and universities were presented in twenty-eight concurrent sessions. The areas covered were analytical, biochemistry, environmental/green, inorganic, organic, nano- and surface chemistry, physical and polymer chemistry. Opening remarks were given by Sharon Lall-Ramnarine, Robert A. Mangione, Pamela Kerrigan, and Alison Hyslop to begin the program. Joseph Serafin then introduced the keynote speaker, Dr. Tina Iverson from Vanderbilt University, a St. John's Alumnus. Dr. Iverson's keynote address was titled – "Structure-facilitated bioengineering of antivirals and antibiotics to combat global health threats."

After several questions from the audience, pictures were taken and the students were then directed to their presentation locations. During the luncheon, Yolanda Small introduced the sponsor presentation speaker, Dr. Issa Salame from City College of New York. Dr. Salame's brief presentation was titled – Using Mastering Chemistry in the Classroom – a Pearson Education sponsored discussion. Following the luncheon, Co-chairs Yolanda Small and Paul Sideris distributed participation certificates and commemorative gifts to the students, moderators and sponsors. At the conclusion of the day, there was an ice cream social, during which a Kaplan sponsored raffle drawing for a free MCAT or GRE course was held. The winning raffle ticket went to a student from Hofstra University.



MEMBER AFFAIRS COMMITTEES:

Awards:

The Awards Committee, chaired by Dr. Stephen Goldberg, has been preparing award certificates for high school students in Manhattan and the Bronx. The reason that the section committee prepares certificates only for Manhattan and the Bronx is that award certificates for other geographical regions of the section are prepared by the respective subsections. In 2014, we sent, to the schools, postcards (instead of letters) that directed the nominator to the Section website where the letter and a nomination form could be accessed. In response to the mailing to schools a total of 28 certificates were sent to 19 different high schools. Many schools presented the certificates at the school's end of year award ceremonies.

Employment and Professional Relations:

The committee, chaired by Dr. Hessa Taft, has an article printed in the Newsletter *the Indicator* and on the New York Section website for employers seeking employees. Activities for this Committee consisted primarily of email exchanges regarding interest for a position by job-seeking candidates and the availability of jobs in industry and /or academia. Sporadic inquiries did come in over the past year but the paucity of job postings has produced no matches. As a result of my request, Linda Atkins, managing editor of the Indicator has placed a permanent announcement in the web-based Indicator encouraging Human Resources departments in Industry and Academia in the NY metropolitan area to contact me to post their job openings with the Employment and Professional Relations Committee electronic roster. It is hoped that the web-based option will provide more visibility and thus more enhanced contact for job placement.

Fellows:

The NY Section posted a notice on their website and in the Indicator requesting nominations for the ACS Fellowships.

The Committee is chaired by Dr. Robert Nolan. The following New York Section members became ACS Fellows in 2014: John S. Blanchard, Hiroko I. Karan, Stephen A. Koch, Qinghan Lin, Edward N. Walsh, Marc A. Walters. ACS President Thomas J. Barton and ACS Immediate Past President Marina Li Wu presented the 2014 class of ACS Fellows at a ceremony held on August 11th at the 248th ACS National Meeting in San Francisco California. The ACS Fellows Program recognizes “Members of ACS for Outstanding Achievements in and Contributions to Science, the Profession and the Society.” Congratulations again on a highly deserved honor.

History of the New York Section:

The New York Hall of Science occupies one of the few remaining structures of the 1964 New York World’s Fair in Flushing Meadow Park in Queens. Today it stands as New York City’s only hands-on science and technology center. The more than 400 hands-on exhibits explore biology, chemistry and physics.



Because of its fifty-year history of educational outreach, and its long-standing support of National Chemistry Week, the New York Section of the American Chemical Society declared the New York Hall of Science a New York Historic Chemical Landmark. New York Section Chair Dr. Pamela Kerrigan presented a plaque to NYSCI during the National Chemistry Week celebration on October 26, 2014. Dr. John Sharkey chairs the Committee on the History of the New York Section.

The Indicator:

The Indicator Committee of the New York and North Jersey Sections met on May 17, 2014 at the Fairleigh Dickensen University Madison NJ campus. The meeting started at 10:00 am. Philip Mark, Robert Nolan, Frank Romano and Neil Jespersen from the New York Section attended. North Jersey attendees were Alan Cooper, LesMcQuire, Betty Ann Houser. The issues discussed were 1. the division of costs for the Indicator; 2. the cost of the hardcopy version that is mailed to about 300 New York Members and about 500 North Jersey members.; 3. the advertising revenue and ways to increase the revenue or decrease the cost; and 4. how to increase the value and readership of the Indicator. This eventually led to the Indicator being an online version only.

Outstanding Service Award:



In 2014, the OSA Committee, chaired by Dr. David Sarno, met and chose Dr. Jill Rehmann of St. Joseph’s College in Brooklyn, NY as the award recipient. Dr. Rehmann received the award at the January 2015 Sectionwide Conference. The award is given each year to recognize the efforts of members of the New York Section who provide their time, leadership skills and dedicated service in promoting quality programs that contribute to the excellence of the Section. Jill served as chair of the New York Section, was co-chair of the Undergraduate Research Symposium and has been the coordinator for the High School Research Poster Session held at St. Joseph’s College for 20 years.

PUBLIC AFFAIRS COMMITTEES:

Information Technology Committee:

The Information Technology Committee, chaired by Dr. Anne T. O'Brien, has guided, encouraged and facilitated the use of electronic meetings in the Section, and arranged, for example, a teleconference for the Nominations Committee. These "electronic" meetings have been quite successful. Various Committees of the Section have used A+ to hold meetings during 2014. These include the Nominating Committee (web conference) and others (teleconferences). Chemical Marketing and Economics, a Section Topical Group, currently makes essentially ALL of its meetings, presentations, etc. available as Webinars *via* Constant Contact (in addition to the physical meeting). The New York Section Board decided at its September 19, 2014 meeting to hold its February 2015 Board Meeting by WebConference in order to test and demonstrate the effectiveness of Web Conferences.

EXECUTIVE COMMITTEES:

Councilor Coordinating:

Summary of Activities from the Dallas Meeting:

The New York section had all its councilors at the council meeting held in Dallas. The council meeting took place on March 19th at the Sheraton Dallas hotel - Dallas Grand ballroom. The District I caucus took place on Tuesday March 18th from 5:30 to 7:00 pm in the same hotel. In addition, many of our councilors attended the Local section Officers and Tour Speakers reception held on Tues afternoon. The ACS council dealt with several major issues important to all ACS members. The meeting hosted 13, 680 registrants. The council received extensive briefings on the Society's finances which showed that in spite of the economic challenges, the Society's operating performance held up well. The Council voted to set member dues for 2015 at the fully escalated rate of \$158. The Committee on Nominations and Elections announced the selection of candidates for Directors-at-Large for a 2013-2015 term. As part of a regular performance review, the Council VOTED unanimously to continue the Committees on Chemical Safety, on Chemistry and Public Affairs, and on Minority Affairs. Continuation of these three committees requires Board concurrence. A special discussion item was put on the Council agenda for this meeting. ACS President Tom Barton presented and moderated a discussion on "What can ACS do to increase the quality of science education in grades K-12? Following the presentation, Councilors engaged in a robust discussion on the proposed questions, and offered numerous suggestions for consideration.

Summary of Activities from the San Francisco Meeting:

The New York section had all its councilors at the council meeting held in San Francisco. The council meeting took place on Wednesday August 13th at the San Francisco Hilton Union Square hotel. The district I caucus took place on Tuesday August 12th from 5:30 to 7:00 pm in the same hotel. Some of our Councilors attended the ChemLuminary awards ceremony on Tuesday August 12th. The New York section did not win any ChemLuminary awards this year. As is standard at fall national meetings, the council elected some members to the Committee on Committees (CONC), the Council Policy Committee (CPC) and the Committee on Nominations and Elections (N&E). The candidates for President Elect for 2015 were announced as well as some candidates for Directors-at-Large. The Council VOTED to continue on Patents and Relative Matters and the Council other committee on Technician Affairs. Total attendance for the San Francisco meeting was 15,761 registrants. CPC announced that the recommendations of its Task Force to Review the Councilor Reimbursement Policy, approved in March 2014, were forwarded to the Society Committee on Budget and Finance and ultimately will go to the Board for action. SOCED received an update on the new American Association of Chemistry Teachers (AACT), which is now accepting members and will officially launch September 2, 2014. AACT member benefits include access to curricular resources, such as lesson plans and multimedia; professional development opportunities; a subscription to *ChemMatters*; and an online member network. Joan Laredo-Liddell reported on the activities of the Society Committee on Education (SOCED). Dr. Ronald P. D'Amelia reported on his activities on the Committee of Community Activities (CCA). As part of the Program Development and Promotion subcommittee (PDP) guidance was developed for National Chemistry week for 2015. Dr. D'Amelia as the Team Leader for NCW 2014 reported that the NCW Celebrating Chemistry edition for The Sweetest Side of Chemistry – Candy was ready for

Long Range Planning:

The Long Range Planning Committee continued its work in 2014 under the Chairmanship of Dr. Brian R. Gibney. While the LRPC intended to revise the Local Section's Mission Statement and Strategic Plan in 2014, in light of the recently revised Society Strategic Plan, two other matters proved more pressing. On May 2, 2014, the LRPC met to discuss the

submission of a proposal to the William H. Nichols Foundation. The proposal was forwarded to the Nichols Foundation by the Section and the Section was informed in November 2014 that the proposal has been funded. The LRPC is currently working on a framework with which to implement the William H. Nichols Research Fellows program outlined in the proposal by January 2015. The LRPC meeting on September 19, 2014 was devoted to a review of the facilities at the College of Mount Saint Vincent, as a possible location for the Mid-Atlantic Regional Meeting (MARM) to be hosted by the Section in 2016. The Section Chair, Pam Kerrigan, a faculty member at the College of Mount Saint Vincent, and the Chair-Elect, Paris Svoronos, co-Program Chair of MARM 2016, led the LRPC members on a tour the facilities. The LRPC plans to complete its work on the William H. Nichols Scholars program for implementation in Spring 2015, and pick up its discussion of the Section's Mission Statement and Strategic Plan in 2015.

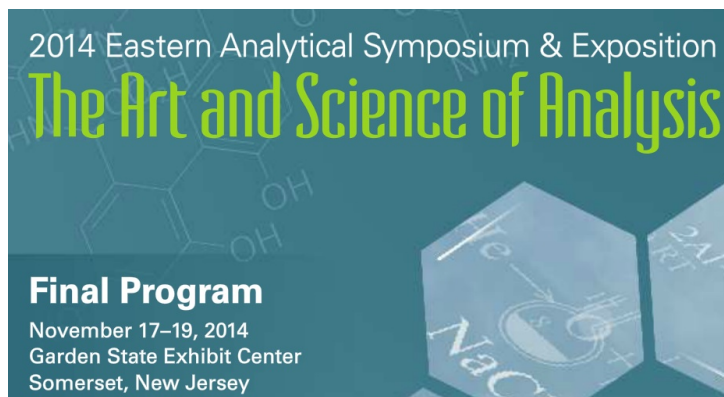
Nichols Medal Jury:

The Nichols Jury met on June 20, 2014 to select the 2015 William H. Nichols Medal Awardee. This is the oldest award of ACS and ACS NY section that has been annually awarded to outstanding chemists and chemical scientists since 1903.

The Jury reviewed all of the applications submitted for the 2015 award and, after careful evaluations based on the guidelines stated in the Section by-laws, selected the 2015 awardee, Dr. Gabor Somorjai at UC Berkley. The result was reported to the Board at the September, 2014 Board meeting and the Board approved it.

Eastern Analytical Symposium:

The 53rd annual EAS was held on Nov 17-19, 2014 in Somerset, NJ. The New York Section is one of the Symposium's co-sponsors. The Eastern Analytical Symposium and Exposition is the world's leading community for analytical chemists seeking the highest quality education and career development. There were approximately 2450 attendees. New York Section members chaired committees, such as registration and housing, and also have served as President of EAS. Dr. Barbara Hillery of SUNY-Old Westbury College was in charge of Short Courses and Mr. Frank Romano of Agilent Technologies chaired the Housing committee. Other New York Section members volunteered during the event at registration and short courses. It is a highly successful event.



The Eastern Analytical Symposium & Exposition is sponsored by the Analytical Division, the North Jersey and the New York Sections of the American Chemical Society; the American Microchemical Society; the Chromatography Forum of Delaware Valley; the Coblentz Society; the New York Microscopical Society; the Delaware Valley, New England, New York Sections of the Society for Applied Spectroscopy;

KEY COMMITTEE CHAIRS

Arrangements: Herk Felder, American Biltrite

Awards: Mary Ellen McNally,

E.I. DuPont de Nemours & Comp.

Employment: Lee Craven, Ethicon

Exposition: Penny Moore

Housing: Frank Romano, Agilent Technologies

Message Center: James Stuart, University of Connecticut

Program: Andrew Teplyakov, University of Delaware

Publicity: Judy Lin, Bristol-Myers Squibb

Registration: Shirley Fischer-Drowos, Widener University

Seminars: Peter Bratin, ECI Technology

Short Courses: Barbara Hillery, SUNY-Old Westbury

Social Media: Lydia Breckenridge, Bristol-Myers Squibb

Special Functions: Cecil Dybowski, University of Delaware

Sponsorship: Nathan Tzodikov, Novartis

Workshops: Christina Robb,

CT Agricultural Experiment Station