

ACS NEW YORK SECTION ACTIVITIES - 2016

SECTION-WIDE CONFERENCE – JANUARY 16, 2016

Each year the New York Section sponsors a Sectionwide Conference for all members to meet with colleagues and new members. This year, the conference celebrated the 125th anniversary of the founding of the New York Section. The conference, held on January 16 at St. John's University in Queens, NY, began with a continental breakfast and featured award presentations for volunteerism and achievement, a keynote address by Prof. John Sharkey, poster displays of Project SEED research, planning sessions for Section activities for 2016, and a luncheon social. Prof. Alison Hyslop of St. John's University and New York Section Chair for 2016 presided over the event and opened the conference by thanking all volunteers and welcoming new members.

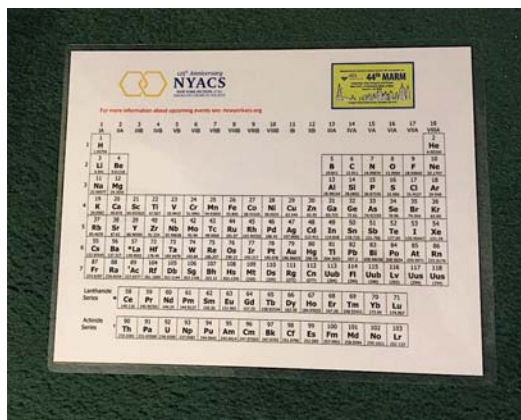


AWARDEES WITH SECTION CHAIR

Dr. Alison Hyslop, Chair, Ms. Yolette Wright, Dr. George Rodriguez and Dr. Paris Svoronos

At the award ceremony, Prof. Paris Svoronos received the past chair pin and an ACS plaque for his outstanding work as Chair of the New York Section in 2015. During his tenure as chair, planning was initiated for MARM (Middle Atlantic Regional Meeting) 2016. The 2015 Outstanding Service Award went to Mr. George Rodriguez, who, while chairing the Chemical Marketing and Economics Topical Discussion Group, created the Global Leadership Awards Program. He has greatly enhanced the visibility of CM&E and has developed a vibrant series of events and presentations related to the chemical industry. The Section presented the Nichols Foundation High School Chemistry Outstanding Teacher Award for 2015 to Ms. Yolette Wright of Roosevelt High School, Roosevelt, NY. Mr. Stephen Radice, Chair of the Nichols Teacher Jury, introduced Ms. Wright and listed her many accomplishments and inspiring teaching methods.

Following the awards, 2016 Chair-elect Prof Brian Gibney of Brooklyn College – CUNY and City University presented the names of the candidates for the upcoming 2016 elections and introduced the candidates who were present. He also distributed a calendar that he developed in honor of the 125th anniversary of the section that showcases the outstanding activities of the Section and the dates of 2016 events.



Since the New York Section is celebrating its 125 year Anniversary in 2016, a “trip through time” of the Section’s 125 years proved to be an excellent keynote address for the conference. Prof. John Sharkey, the New York Section’s Historian for many years, delivered an interesting and thorough recounting of the years from the Section’s formation to the present day. Numerous slides showed the notable chemists who were instrumental in its development and success over the years.



The annual planning session for subsections, topical groups, and committees was held during the last hour of the conference, to discuss goals and activities for the upcoming year. The MARM (Middle Atlantic Regional Meeting) Committee held a special meeting to continue planning the MARM meeting scheduled to be hosted by the New York Section in 2016. Following the conference, a group of attendees enjoyed lunch at a nearby restaurant.



Four NY Section Project SEED Students Presented their Research Posters at the Conference

WILLIAM H. NICHOLS SYMPOSIUM AND MEDAL AWARD DINNER APRIL 17, 2016

On March 4, the William H. Nichols Medal Award for 2016 was presented to Professor Stephen L. Buchwald, the Camille Dreyfus Professor of Chemistry, of the Massachusetts Institute of Technology during the Nichols Medal Award Presentation and Dinner held at the Crown Plaza Hotel, White Plains, NY. Dr. Buchwald received the Nichols gold medal for "For His Landmark Contributions in Organometallic Chemistry, Ligand Design, and Catalysis." In attendance were 290 local industrial chemists, students and faculty members. Forty colleges and universities in the New York Section were represented.



The William H. 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, making it the first award presented by the American Chemical Society. 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 Nichols Distinguished Symposium, that preceded the award dinner, was titled “The Development and Applications of Modern Methods in Organic Synthesis.” It featured internationally known speakers: Prof. Timothy F. Jamison (Massachusetts Institute of Technology), Prof. M. Christina White (University of Illinois Urbana-Champaign), Dr. Joel C. Barrish (Achillion Pharmaceuticals, Inc.) and Medalist Prof. Buchwald who presented the Award Lecture titled “Palladium-Catalyzed Carbon-Heteroatom Bond-Forming Reactions.” Dr. Brian R. Gibney, 2016 Chair-elect of the New York Section, led the symposium – welcoming the attendees and introducing each speaker. The attendees enjoyed the high quality of the symposium and the networking atmosphere of the award banquet.



Professors Hyslop (2016 Chair), White, Buchwald, Jamison, Barrish and Gibney (2016 Chair Elect)

At the Nichols Medal Award Dinner, Dr. Alison G. Hyslop, 2016 Chair of the ACS New York Section, welcomed and thanked the guests, introduced the dais and related the History of the Nichols Medal. The Section was very honored to have Dr. Donna J. Nelson, President of the ACS, offer greetings and congratulations from the American Chemical Society. The Section was also happy to have in attendance Dr. Thomas Donnelly, CEO and Executive Director of the ACS. Prof. David W. C. MacMillan of Princeton University offered an interesting and entertaining introduction of his good friend and colleague Prof. Buchwald. Dr. Hyslop then awarded the gold medal, a bronze replica, and \$5000 to Dr. Buchwald, who was accompanied by his wife, Susan Haber. Following the ceremony many students eagerly met with the Medalist for conversation and photographs.



Members of the Nichols family also participated in this special event, along with many former chairs of the New York Section and members of the Section's Board of Directors. On behalf of the ACS and the New York Section, Dr. Brian Gibney presented a P3 Salute to Excellence Plaque to the Nichols Foundation President, Sandra Nichols Nash, to recognize the Foundation's unwavering commitment to improving the public's perception of chemistry - through the William H. Nichols Medal Award, the Nichols Teacher Award and the William H. Nichols Fellowship Programs.



At the dinner, the Nichols Research Fellows for 2015, Diego Prado of Hofstra University and Natalie Thulin of Barnard College, were introduced. Their research, during the summer of 2015, was sponsored by the Nichols Foundation, Inc. The William H. Nichols Fellowship Award, first introduced in 2015 supports, annually, two undergraduate students for summer science research in a New York academic institution. Also introduced were the two Siemen Competition Finalists from Manhasset High School, Christine Yoo and Kimberly Te. Their families and Research Mentor, Alison Huenger, accompanied them to the Award banquet.



The 2016 Nichols Meeting surely was a successful and grand event enjoyed by many!

44th MIDDLE ATLANTIC REGIONAL MEETING - JUNE 9-12

The **44th Annual Middle Atlantic Regional Meeting** was held June 9 - 12, 2016 at the College of Mount Saint Vincent in Riverdale, NY. There were approximately 800 people in attendance, with over 50 sessions, eight workshops, thirteen social events, and two days for poster sessions. About 300 talks and 200 undergraduate and 50 graduate/postdoc posters were presented. The exposition had over twenty-five exhibits from academia, industry and government sponsors.

The highly successful MARM was organized by a team of over 50 volunteers. The organizing committee ensured that the MARM was able to fulfill its goal of presenting Chemistry: Past, Present and Future. The volunteers who developed the sessions and workshops provided the chemistry community an opportunity to present and discuss chemistry. The Awards ceremony and the 125th Anniversary celebration were highlights

The concurrent sessions addressed topics ranging from Environment and Forensics to Photocatalysis and Solar Fuel, to Teaching Students with Disabilities. The NSF presented on Funding Opportunities, and a session on Resources and True Stories for Entrepreneurs gave the attendees an opportunity to discuss ways to develop their business skills. The poster session was held in the same area as the exposition and the presenters and audience spent their time at both the posters and talking to the exhibitors. The High School Teachers had the opportunity to develop classroom demonstrations and green chemistry. Career development programs on Fostering Innovation, Finding Your Pathway, and Resume Reviews were well attended. Two workshops on Chemical Hygiene Officer and Laboratory Waste Management provided training for chemists who manage safety, waste, and chemicals for their organizations.

Dr. Ronald Breslow of Columbia University presented the **Keynote Address**, entitled The Invention of SAHA, An Effective Anticancer Compound with an Important New Mechanism, and of New Analogs with Exciting Properties, on Saturday evening to approximately 120 participants.

The Keynote Address was followed by a dinner and reception for the **125th Anniversary of the New York Section** on Saturday evening that was attended by approximately 80 people. Everyone was welcomed by Dr. Donna Nelson, President of the ACS, followed by a brief history of the Section given by Dr. Brian Gibney. The night was capped off by a brief talk by Dr. Ronald Breslow about the present chemistry he is conducting and a brief talk by Dr. Tianning Diao, New York University, about the chemistry she is planning on doing. New York Section calendars and beautifully engraved 125 mL Erlenmeyer flasks were given as mementos of the occasion to all attendees.

On Friday evening approximately 60 people attended the annual awards dinner where the following awards were given:

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| • Dr. Ronald P. D'Amelia | E. Emmett Reid Award |
| • St. John's University | Stanley C. Israel Award |
| • Dr. Paris Svoronos | E. Ann Nalley Award |
| • New York Section and Nichols Foundation | P3 Award |
| • Ms. Mary Clavert | Excellence in High School Teaching Award |

STANLEY C. ISRAEL AWARD: St. John's University Chemistry Department received the 2016 Stanley C. Israel Regional Award for Advancing Diversity in the Chemical Sciences. Sponsored by the American Chemical Society (ACS) Committee on Minority Affairs, it is given to institutions and/or individuals whose policies have made it possible for people of diverse back- grounds to succeed in the field of chemistry. Presented on June 10 at the 2016 Middle Atlantic Regional Meeting (MARM), the award was accepted on behalf of St. John's University by Alison Hyslop, Ph.D., Associate Professor and Chair of the Department of Chemistry.



Said Dr. Hyslop, “We were recognized primarily because the whole department pulls together to make its resources available to every student. We believe that everyone who comes through our doors should be able to succeed.” Citing the effectiveness of faculty mentoring, career workshops, and making career-enhancing research opportunities accessible to undergraduates, Hyslop said “more than 50 percent of our graduates go on to medical or graduate school.” One student from St. John's University, Shenell Collins, stated, “Being able to participate in collaborative learning gave me the immediate feeling that I belonged here and helped me overcome my self-doubts because I

looked different. It was a liberating experience, and has gone a long way towards building my self-confidence,” said Collins. Impressed by her aptitude for the field, faculty members encouraged her to apply for two outside career-enhancing academic research internships. “Their support of my goals, helped me expand my professional skills,” Collins said. Extending its commitment to inclusiveness to exposing divergent student communities outside SJU to the attractions of chemistry, the Department also runs Chemistry is Fun sessions for elementary school students.

E. EMMETT REID AWARD: Dr. Ronald P. D’Amelia for excellence in chemistry teaching and research at a small undergraduate college in the ACS Middle Atlantic Region. Dr. D’Amelia, an Adjunct Full Professor of Chemistry at Hofstra University, has developed a research program that involves many undergraduate students. His research program at Hofstra has inspired many students to go on to graduate school. He graduated with a B.S. degree in Chemistry from the City College of New York (CCNY) and he earned his master’s and doctoral degrees in Chemistry at Adelphi University. Dr. Ron D’Amelia worked for Kraft/Nabisco Food Group for 32 years and retired as a Principal Senior Scientist, before pursuing a career in college teaching.

E. ANN NALLEY AWARD: Dr. Paris Svoronos of Queensborough Community College (MARM 2016 Program co-chair) received the E. Ann Nalley Award. The award recognizes the volunteer service of an individual to the local region of the American Chemical Society. Dr. Svoronos’ service to the NY Section, was the force behind acquiring two Mid-Atlantic Regional Meetings (MARM), where he also served as General Co-Chair in 2008 and as Program Co-Chair in 2016. In addition, the 2008 MARM was hosted by Dr. Svoronos at QCC. He served as Chair of the NY Section in 2015, and thus also served several years on the executive board and multiyear terms on several NY Section committees. He served as Chair of the LI Subsection in 2002 and several years on the LI Subsection Executive Board; as Chair of the subsection he was also a member of the NY Section Board. He hosted two NY Section Undergraduate Research Symposia at QCC, in 2004 and in 2008. He was the creator of the annual LI Chem Challenge, which has now been running for over 15 years.

PARTNERS FOR PROGRESS AND PROSPERITY AWARD: Recipients of the P3, Partners for Progress and Prosperity Award were ACS Director Laura Pence, Hope Nichols Prockop of the Nichols Foundation, and Brian Gibney.

EXCELLENCE IN HIGH SCHOOL TEACHING AWARD: Mary Calvert, winner of the Excellence in High School Teaching Award, attended The University of Illinois in Champaign-Urbana earning a B.S. in Chemistry. After working in industry for a couple of years, she went back to school and earned a master’s in Chemistry from Princeton University. Calvert taught at the College of New Jersey before teaching at The Lawrenceville School where she has taught for the last 18 years. Calvert holds Lawrenceville's Oscar H. McPherson ‘01 Distinguished Teaching Chair. In 2012, she received Lawrenceville's Henry C. Woods Faculty Award for

Service to the School and in 2000 she was honored with the School's Ritter Award for Fostering a Nurturing Academic Environment. Calvert has also chaperoned Lawrenceville's International Programs trips to Austria, Cuba, and Germany.



MARM AWARDEES

125th ANNIVERSARY OF THE NEW YORK SECTION CELEBRATION

The New York Section celebrated its 125th Anniversary by hosting almost 125 events in 2016. Funds from this IPG were used to develop a 125th Anniversary logo and provided all attendees at the 125th Anniversary Gala, entitled Chemistry: Past, Present, and Future, hosted at the Middle Atlantic Regional Meeting (MARM) in June 2016, with a wall calendar with the next year's events. The dinner was attended by 70 members of the section, both new and old members. Three talks were given to represent the Past, Present, and Future of chemistry given by Dr. Brian Gibney, Dr. Ronald Breslow, and Dr. Tianning Diao. Every attendee received a 125th Anniversary Erlenmeyer flask and the NY ACS calendar.

This event marked a milestone in the New York Section. As the second oldest section in the American Chemical Society, and the location of the founding of the American Chemical Society in 1879, the 125th Anniversary is a testament to the strength and impact of the ACS and its Sections.

Over the past year, we have used the logo designed for our anniversary on our website, in the calendar, on banners printed for our events, and on our flyers designed throughout the year. In the logo design, "both a chemical bond and a human bond were illustrated. Similar to the people of New York, electrons in a benzene ring are constantly moving around. In this logo, two benzene rings slow down for a moment to form a physical bond, emphasizing how the New York Section of the American Chemical Society strives to form human relationships through chemistry and science." Morgan Gruer – designer.

Over the anniversary year, the NY ACS promoted chemistry through events such as Nichols Award Symposium, Chemists Celebrate Earth Day with a walk across the Brooklyn Bridge, the Undergraduate Research Symposium, Chemagination, National Chemistry Week, Sectionwide Conference, poster sessions, Project Seed, and Seminars. Our 125th anniversary was promoted at all of these events.



ACS CEO Tom Connelly, 2016 ACS President Donna J. Nelson, and NY ACS member George Rodriguez at the reception before the 125th Anniversary banquet.



Dr. Alison Hyslop, NY Section Chair, greets guests at the 125th Anniversary Dinner



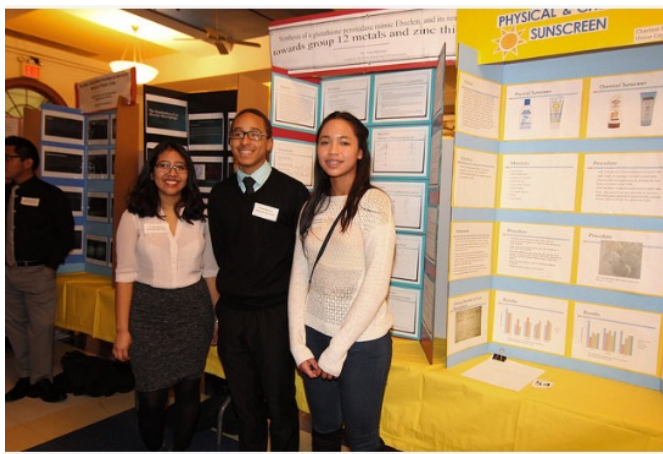
Dr. Ronald Breslow, Columbia University speaks on the present of chemistry at the 125th Anniversary dinner.



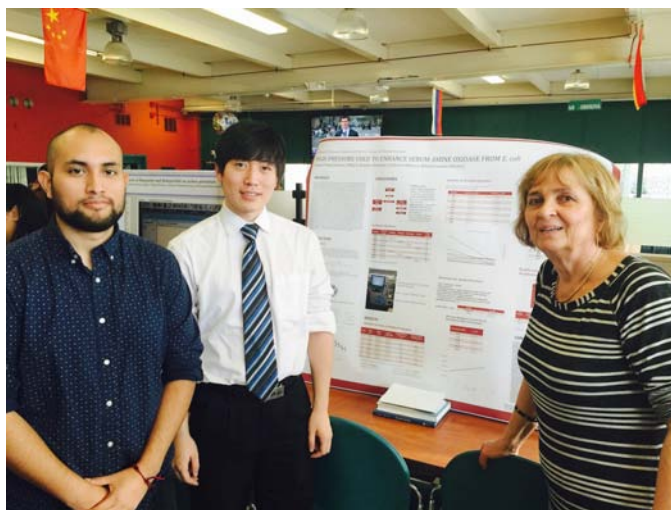
2016 NY ACS Chair-elect Dr. Brian Gibney, Brooklyn College and the CUNY Graduate Center, speaking at the 125th Anniversary dinner.

SUBSECTIONS

The **BROOKLYN SUBSECTION**, chaired by Dr. Theresa Cea, continued its excellent activities in 2016. On **Feb. 6** The Brooklyn Subsection co-sponsored the **20^{1st} Annual High School Poster Session at St. Joseph's College**. Prof. Tina Zottoli, an Assistant Professor of Psychology at Montclair State University and a NYS licensed clinical psychologist, presented the keynote lecture on "How to Make a Difference with Your Research." There were 107 poster presentations and 113 participants registered in this event. Students from 9 area high schools attended and the quality of the research was better than ever. All of the students received certificates. There were 10 honorable mentions who received a gift bag from Vigon International. There were 4 winners who received a gift bag from Vigon International and gift cards from Amazon. On **Feb. 9** the Brooklyn Subsection hosted the ACS Program-in-a-Box event entitled "The Role of Chemistry in Global Security." The Student Member Chapter at Brooklyn College oversaw the Brooklyn College event for undergraduate and masters students. On **Oct. 28** the Subsection sponsored the **31st Annual Brooklyn High School Chemistry Day**, as part of National Chemistry Week. An audience of 103 high school students from the borough was entertained with a chemistry demonstration magic show performed by Prof. Mark Kobrak, and given tours of the chemistry research laboratories. After lunch, the High School students worked 'The Chemistry Game Challenge' hosted by the Brooklyn College Student Members of the ACS, aka the Chemistry Club. Lastly, an outstanding chemistry student from each high school was presented with an award certificate.



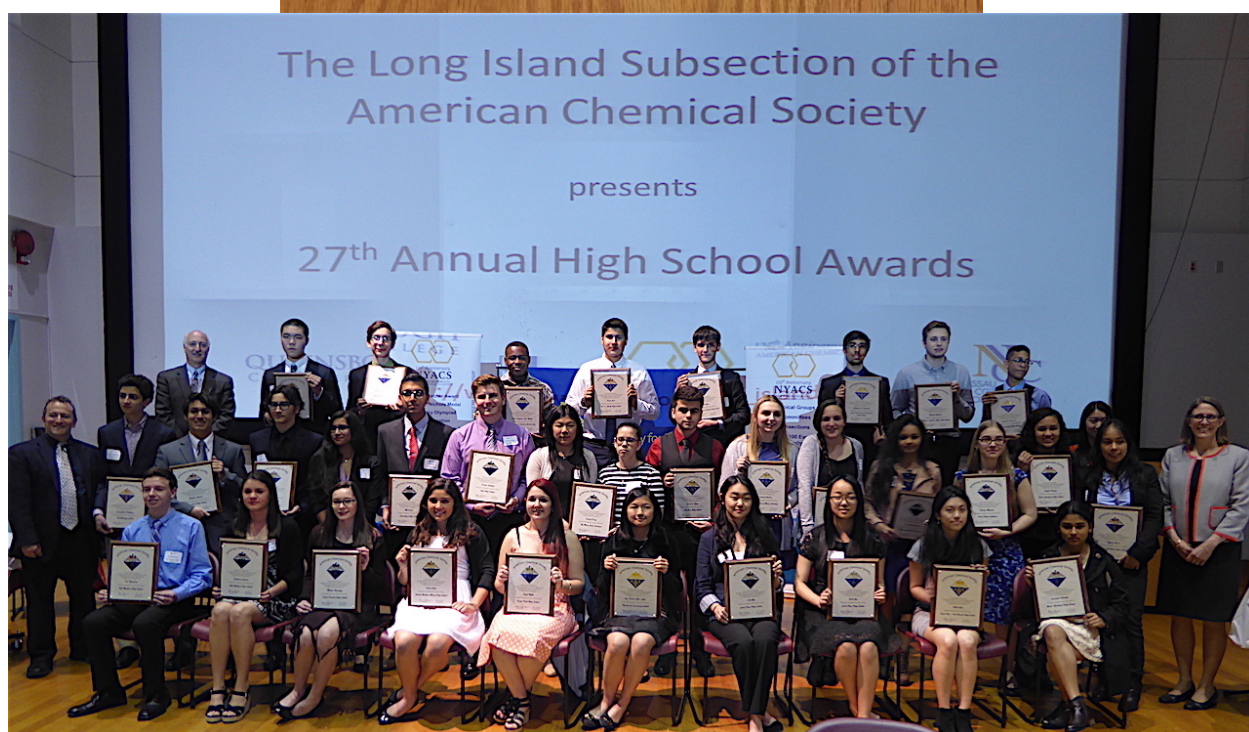
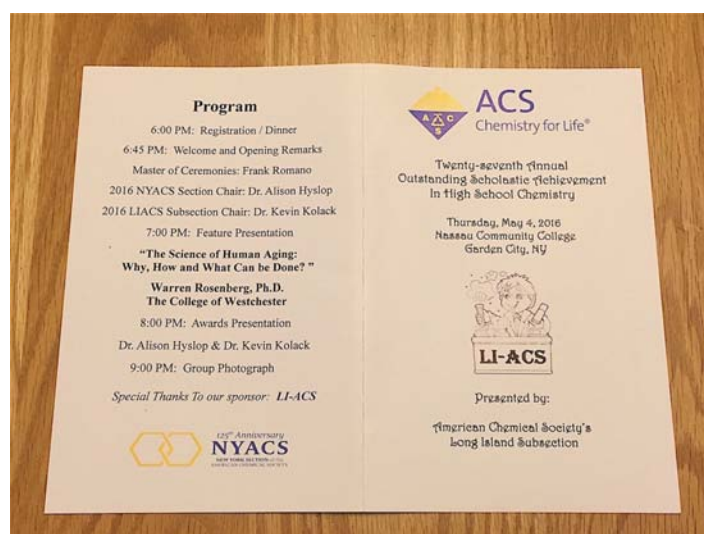
The **HUDSON BERGEN SUBSECTION**, chaired by Mr. Thomas Drwiega, sponsored many successful activities in 2016. The **15th Annual Student Research Symposium** was held on **Apr. 13**, at Ramapo College of New Jersey. Certificates and books were presented to the awardees and all the student presenters. 20 posters were presented. Attendance was 110. A meeting, jointly with the School of Natural Sciences of Fairleigh Dickinson University and New Jersey City University, and the **18th 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, Apr. 22**, at Fairleigh Dickinson University. Certificates and books were presented to the awardees and all the student presenters. 17 posters were presented. Attendance was 85. Dr. Mihaela Leonida from Fairleigh Dickinson University delivered a talk on "Great Forgeries, The Science and The Story."



On **Sept. 28** a meeting was held at New Jersey City University, where Dr. Alan Cooper delivered a talk about the ACS and other topics for future graduates of the sciences. Attendance: 2 faculty and 15 students. Also, in celebration of **National Chemistry Week**, a meeting was held at Fairleigh Dickinson University on **Oct. 27**. The invited lecture, titled "Forensic Toxicology and Excited Delirium", was delivered by Sorin Diaconescu. Attendance was 6 faculty and 70 students. On **Nov. 16** a meeting was held at New Jersey City University, at which Dr. Meredith Foley delivered a talk about the DNA Polymerase and how it uses molecular modeling to analyze relationships. Attendance: 2 faculty and 20 students.

The **LONG ISLAND SUBSECTION**, chaired by Dr. Kevin Kolack, was also very active in 2016. It held 7 board meetings, **8 seminars**, the 27th High School Awards Night and the 16th Annual Chemistry Challenge. The **27th annual Long Island ACS High School Awards** program was held at Nassau Community College on **May 14**. There were 59 awards given and approximately 90 attendees - the high school students, their families,

administrators and LIACS members– for the ceremony, dinner and speaker. The keynote address was given by Dr. Warren Rosenberg of the College of Westchester who spoke on “The Science of Human Aging: Why, How and What Can be Done?”



LONG ISLAND SUBSECTION ACHIEVEMENT AWARDS TO HIGH SCHOOL STUDENTS

The **15th Annual Chemistry Challenge** was held on **Apr. 15** at Queensborough Community College, where 71 student competitors in 24 teams from nine 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). There was a total of 140+ attendees at the event.

Chemistry Challenge Winners

(Sponsored by American Chemical Society – Long Island Section)

2016 Winners



Queensborough CC 1 (2 yr, Gold)



Hofstra Univ 2 (2 yr, Silver)



St. John's 1 (2 yr, Bronze)



Adelphi Univ 1 (4 yr, Gold)



Adelphi Univ 2 (4 yr, Silver)



SUNY OW 2 (4 yr, Bronze)

On **Dec. 1** the subsection held its Holiday Seminar, Celebration and Elections. Dr. Jennifer Haghpahan, Senior Scientist at L'Oreal, NYC, spoke on the topic "From R&D to Market: A Life Science to L'Oreal."

The **WESTCHESTER SUBSECTION**, chaired by Dr. Rolande Hodel and Dr. Paul Dillan, held 7 monthly seminars, 3 board meetings and the **2016 Distinguished Scientist Award Dinner**. On Wednesday, **Apr. 27** at Pace University in Pleasantville, NY, the Westchester Chemical Society presented its **Distinguished Scientist Award** to Stephen A. Cooke, Ph.D. "For contributions to the development of Fourier transform microwave spectroscopy." Dr. Cooke received his Ph.D. in Physical Chemistry from the University of Exeter, England. In addition to the Distinguished Scientist Award, the Westchester Chemical Society also presented 16 undergraduate **Student Awards** – our most ever. Further, this year, we presented awards to outstanding students from two local high schools.



Rolande Hodel Presenting His Award To Stephen Cooke

Westchester 2016 Seminars

2016 Westchester Chemical Society I		
Date	Speaker	Topic
2016 Westchester Chemical Society I		
2/10/2016	Han Yuan, Ph. D.	Methods for Characterization of Hyaluronan from Biological Samples
3/2/2016	Soosairaj Therese, Ph. D.	Utility of Spinel Oxide Hosts for Magnesium-ion Batteries
4/7/2016	Monika Sikand, Ph. D.	Optical Properties of mixed phase Arctic clouds as observed from Tethered Balloon Instrument Platform
4/27/2016 (Distinguished Scientist Meeting)	Stephen Cooke, Ph. D.	Molecular Rotational Resonance Spectroscopy as a Tool for Observing Unusual Molecular Motions in Fluorocarbons
10/11/2016	Paul Dillon, Ph. D.	Clinical Diagnostics: An Overview
11/10/2016	Xiayun Huang	Competitive AlphaScreen [®] Assay for Hyaluronan Detection
12/8/2016	Ursula Koniges	Effects of Overhanging Analyte Oligo Tails in Model DNA and Morpholino Arrays

TOPICAL DISCUSSION GROUPS

The **ANALYTICAL TOPICAL GROUP**, chaired by Dr. Robert Nolan, hosted one seminar in 2016 with the participation of the forensic science faculty and students from John Jay College of Criminal Justice. Faculty and students from other NYC area forensic science and analytical chemistry programs were invited to attend the seminar, which was held on **Dec. 8** at John Jay College in NYC. Dr. Mircea Alex Comanescu of John Jay College and the Graduate Center, CUNY was the seminar speaker. The seminar was titled “Forensic Analysis of Fiber Dyes via Surface-Enhanced Raman Spectroscopy.” Attendance was about 30.

The **BIOCHEMICAL TOPICAL GROUP**, chaired by Dr. Thomas Franke, had another very active year in 2016. 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 **9 Symposia**. The topics and speakers were selected from proposals submitted to the Steering Committee. The scientist who suggested the topic then chaired that meeting. The symposia were held at NYAS, 7 World Trade Center NYC. Half- day symposia had 4-5 speakers and full day symposia had 7-8. 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 attended each symposium.

The symposia included **Feb. 22**, “Regenerative Medicine: Transitioning Therapeutics from Cells to the Clinic”, **Mar 22**, “Neuronal Connectivity in Brain Function and Disease: Novel Mechanisms and Therapeutic Targets”, **Apr. 26**, “Solute Carrier Proteins: Unlocking the Gene-Family for Effective Therapies”, **Apr. 28**, “Epigenetics: Cancer and Beyond”, **July 13**, “MicroRNAs: A Gene Silencing Mechanism with Therapeutic Implications”, **Sept. 8**, “Targeting Inflammation and Podocytopathy in Chronic Kidney Disease”, **Oct. 25**, “Emerging Paradigms in Drug Discovery & Chemical Biology”, **Nov. 15**, “Mucosal Healing of the Intestinal Epithelial Barrier” and **Dec. 6**, “Alzheimer's Disease as a Neurovascular Inflammatory Disorder.”

The **CHEMICAL MARKETING AND ECONOMICS TOPICAL GROUP**, chaired by Charles Brumlik, had another extraordinarily active year. The Group had **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. The luncheon and the presentation were preceded by an informal social hour for networking and renewing and/or maintaining professional contacts. The luncheon meetings are held at the following distinguished NY venues: the Yale Club, the Penn Club and the Metropolitan Club. On **Dec. 8**, CM&E presented its **2016 Leadership Awards**, marking the fifth annual celebration of leadership in the chemical industry. The Dinner and Awards event honored the heads of NASA, Honeywell, Solvay and Access Industries. It set a new record of 260 registrants. The ACS speakers included Dr. Thomas Connelly, ACS CEO and Executive Director and Dr. Donna Nelson, 2016 ACS President. The **Science Involvement Award** was presented to Major General Charles F. Bolden, Jr. At NASA he led the transformation to commercial systems, a robust science program, development of technology and spacecraft for NASA's Journey to Mars as well as cleaner, faster, and quieter airplanes, and exploration programs from our home planet Earth to the edge of the solar system. The **Lifetime Achievement Award** went to David M. Cote. During Cote's fourteen years of leadership, Honeywell has delivered growth in sales, earnings, segment profit, cash flow, and a total shareowner return of more than 400percent. The **Extraordinary Innovation Award** was given to Jean-Pierre Clamadieu, who has been a visionary industry innovation leader and a premier sponsor of the revolutionary Solar Impulse Aircraft Program. The **Historic Industrial Investment Award** went to Len Blavatnik,. He has global interests in natural resources & chemicals, technology & e-commerce, media & telecommunications, and real estate.

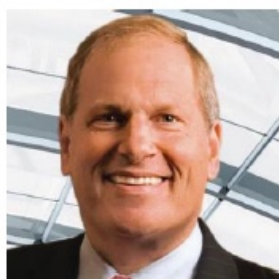
2016 HONOREES



Historic Industrial Investment

**Len
Blavatnik**

Access Industries
Founder and
Chairman. American
Industrialist and
Philanthropist.



Lifetime Achievement

**David M.
Cote**

Chairman and CEO
of Honeywell.
Director to the
Federal Reserve
Bank of New York.



Science Involvement

**Major Gen. Charles
F. Bolden, Jr.**

NASA Administrator.
Former Astronaut and
Deputy Commanding
General of the US
Forces in Japan.



Extraordinary Innovation

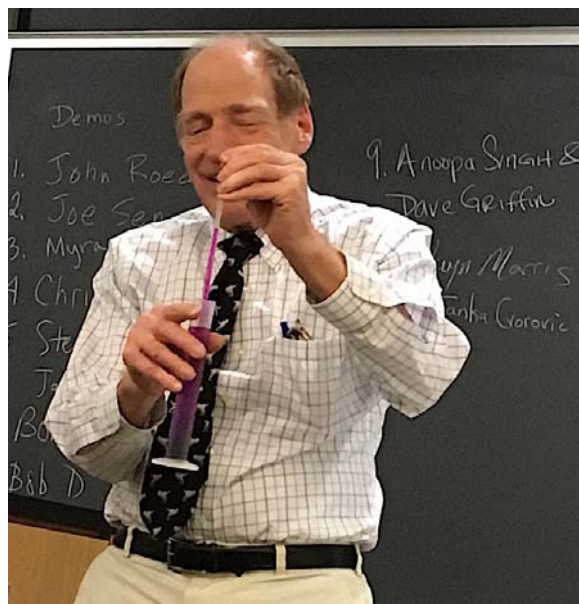
**Jean-Pierre
Clamadieu**

Solvay CEO and
Board Member.
European Chemical
Industry Council
President

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**, chaired by Seogioo Jang, held its annual New York Theoretical and Computational Chemistry Conference (NYTaC³ on **Dec. 2**. This is a one day professional conference where local experts in theoretical and computational chemistry give talks on recent advances in their fields of research and students also present posters. The theme of the conference was “**Exploring Correlations Across Multiple Length and Time Scales.**” There were 8 invited speakers as follows: Zlatko Bacic (NYU), Angelo Cacciuto (Columbia U.), Marivi Fernandez-Serra (Stony Brook), Ed Hohenstein (City College), Mark Hybertsen (BNL), Neepa Maitra (Hunter College), Spridoula Matsika (Temple U.), and Tamar Sclick (NYU). In addition, two postdoctoral researchers gave contributing talks. The conference gave an unique opportunity to learn and discuss various computational approaches from small molecules to large scale systems. The meeting served as an important networking event for both professors and students alike. It had 68 attendees.

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, **8 excellent meetings** that included seminars, presentations and the very popular **Demo Derby on Apr. 15 and Oct. 21**. It was an evening of nonstop demonstrations by the 35 attendees.



The **INORGANIC AND ORGANOMETALLIC TOPICAL GROUP**, chaired by Dr. Kathleen Kristian and Dr. James Camara, hosted the 5th annual Frontiers of Inorganic and Organometallic Chemistry lecture symposium on **Sept. 2** on the campus of Columbia University. The event attracted an audience of more than 40 academic and industrial chemists. Presenters included Jay Deiner (NYC College of Technology), Alan Goldman (Rutgers University), Anthony Shaw (US Army Research), and Rachel Narehood Austin (Barnard College). Prof. Liz Nolan (MIT) delivered the keynote address, “Metals and Immunity: Bioinorganic Explorations of Human Calprotectin”.

The Inorganic and Organometallic Topical Group hosted the ION (Inorganic, Organometallic, Nanoscience) Poster Session on Friday, September 2, 2016 on the campus of Columbia University. The event featured informal poster presentations by graduate and undergraduate students from institutions within the NY Local Section.

The **METROWOMEN CHEMISTS TOPICAL GROUP** was chaired by Rita Upmacis. This past year, the NY ACS Metro Women Chemists' Committee invited Dr. Marisa Buzzeo (Assistant Professor of Chemistry,

Barnard College, New York) to give a seminar at Pace University on Wednesday **Feb. 24**. The title of her talk was “**Selenocysteine Redox Fundamentals and Biosensing Applications**”. The event was advertised in the Indicator (February 2016 edition). The lecture was well-attended, by about 30 – 40 people. the lecture, Dr. Marisa Buzzeo had lunch with the faculty from the Chemistry and Physical Sciences Department.

The **MICROWAVE TOPICAL GROUP**, a new topical group chaired by Dr. Jun Shin, had its first workshop on **Oct. 28**. Its purpose was to introduce the properties of the microwave reactor and its chemistry applications to the scientist in the New York area. The workshop consisted of two sessions: a presentation about microwave by Dr. Jun Shin and a demonstration of a microwave reactor to the participants by performing reactions. During each session, the participants asked a variety of questions about microwave reactions as well as the microwave reactor itself. The workshop lasted for about two hours during which time the attendees demonstrated a lot of interest in the applications of the instrument and its chemistry. Refreshments were provided by various Queensborough Community College Student Government clubs. These included the QCC Affiliates of the ACS, the Chemistry, the STEM Research, the Science Research Alliance and the Korean Student Association. The committee intends to offer more such workshops in the future.

The **NANOSCIENCE TOPICAL GROUP**, chaired by Dr. James Canary, held **3 excellent symposia** in 2016, The meetings took place at New York University on Tuesday evenings, beginning at 7:00 pm with greetings and refreshments, followed by science at 7:30pm. Each speaker presented for 25 minutes, and entertained questions for 5 minutes. The atmosphere was informal and collegial. The **Feb. 2** symposium featured speakers Dr. Alexei Tkachenko, Brookhaven National Labs, - “Principals of Programmed Architecture”; Dr. Robert Messinger, City University of NY, - “Revealing “Invisible” Defects in Crystalline Li-ion Battery Electrodes by Solid-State NMR Spectroscopy”; and Dr. James Canary, NYU – “Redox-Recongiurable Ambidextrous Catalysis.” The June 8 Symposium had 3 speakers – Dr. David Shahrjerdi, NYU – “High Performance Flexible Electronics: A Perspective”; Dr. Chenxiang Lin, Yale University – “DNA-Origami Templated Membrane Structure and Dynamics” and Dr. Andy Illott, NYU, - “Characterizing Dendrite Growth in Lithium Batteries Using in situ MRI”; And the **Oct. 25** symposium also had 3 speakers – Dr. Nicolas Giovambattista, Brooklyn College-CUNY, “Computers Simulations of Water Confined at the Nanoscale: Films, Droplets and Capillary Bridges”; Dr. Dalibor Sames, Columbia University, - Imaging and Repairing Synapses with Chemical Tools”; and Dr. Xi Chen, City College, CUNY – “Engines Driven by Evaporation.” Attendance is about 40.

The **ORGANIC TOPICAL GROUP**, chaired by Dr. Paramjit Arora, hosted three outstanding symposia in 2016 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. On **May 25** the symposium featured distinguished keynote speakers Dr. Philip Cole, from Johns Hopkins University Medical School, and Dr. Kenneth Duncan, from Epizyme bringing together academic and industry perspectives in the study of post-translational modification and epigenetics. They were preceded by shorter, cutting-edge talks that span the scope of chemical biology. The **Sept. 9** symposium, titled Protein Engineering and Protein Therapeutics highlighted the state-of-the-art technologies in protein and antibody engineering, and antibody-drug conjugates. The implementation of these methods to specific diseases, or to develop unique research tools, was discussed. Keynote Speakers were Dr. Shohel Kolde, from NYU Langone Medical Center, Dr. Jonathan Lai, from Albert Einstein College of Medicine, Dr. Jim Wells from University of California and Dr. Manoj Charato of Pfizer. his was followed by shorter, cutting-edge talks by graduate students and postdoctoral fellows selected from participating tristate-area institutions, and a poster session. The **Oct 25** symposium, titled Emerging Paradigms in Drug Discovery & Chemical Biology, highlighted recent advances in on-target and off-target identification of drug-protein interactions in physiologically relevant systems, and will feature talks on the ubiquitin proteasome system, GPCRs, protein lipidation mechanisms, neurobiology, and cancer. The speakers were: Dr. Marcus Bantscheff from Celizome; Dr. Benjamin Cravatt from Scripps; Dr. Craig Crews from Yale University; Dr. Howard Hang from Rockefeller University; Dr. Ruth Nussinov from the National Cancer Institute; Dr. Brian Raymer from

Pfizer; Dr. Vryon Roth of the University of North Carolina and Dr. Eranthie Weerapana from Boston College.

The **SENIOR CHEMISTS TOPICAL GROUP**, chaired by Frank Romano and Dr. Ralph Stephani, organized and hosted a very successful **50 and 60 year ACS Member Celebration and Luncheon** that was held on Saturday **Nov. 6** at Petrossian's Restaurant, NYC. Dr. Alison Hyslop, 2016 Chair of the Section, and Mr. Romano presented the ACS awards, while family and friends joined them in celebrating this special occasion. A highlight of the event was the interesting and humorous anecdotes from the honorees about their life experiences in chemistry. Pictures were taken of the awardees holding their plaques. Each year the honorees express their gratitude for having had the opportunity to visit with colleagues and for being acknowledged in such a special way.



EDUCATION COMMITTEES

CHEMAGINATION

The 13th Annual Chemagination contest of the New York Section of the American Chemical Society (NYACS) was hosted by NYACS at St. John's University on **Apr. 9**. *Chemagination* is a science essay and poster contest for high school chemistry students, grades 9-12, that asks them to address the question, "What innovation or breakthrough in the field of chemistry will be important in the lives of teenagers 25 years from now?" Students choose one of four categories: Alternative Energy Resources, Environment, Medicine/Healthcare, or New Materials and their entries are written as articles of 1000 words or less that might appear in a future issue of *ChemMatters*, a science publication for high school students. Students make a poster presentation of their articles on the day of the contest. The written entries were received through web submission and then made available to the judges prior to the day of the contest. 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. This year's event had 18 posters and 50 students from

three different high schools. The Chemagination contest began with welcoming remarks by Dr. Alison Hyslop (Chemagination Coordinator along with Dr. Nipa Deora), Dr. Brian Gibney (NY ACS Elect Chair, Associate Professor, Brooklyn College), and Dr. Nipa Deora (Chemagination Coordinator along with Dr. Alison Hyslop). This was followed by the judging of posters. The first place entry in each category was invited to represent NYACS at the Regional 2016 MARM Chemagination, held this year at the College of Mount Saint Vincent on June 11, 2016.



CHEMISTS CELEBRATE EARTH DAY (CCED)

Walk the Brooklyn Bridge

It was a beautiful, clear, and sunny day on Sunday, **April 24** – perfect for students and faculty, members of the New York Section of the ACS, and friends and families to come together to celebrate the 5th Annual Chemists Celebrate Earth Day's "Walk the Brooklyn Bridge" event! Local colleges and companies represented at the event included Pace University, New York University, Baruch College, Brooklyn College CUNY, Columbia University, Department of Environmental Protection, Kingsborough Community College, Merck, Mineola High School, St. John's University, Saint Peter University, Saint Stanislaus Catholic Academy, The Graduate Center of the City of New York, St. Joseph's College, Hunter College, and NYCT. There were more than 170 people in attendance who gathered at Pace University (the host institution) at 11 am to begin the celebration.

The morning started with a welcome by Dr. JaimeLee Rizzo, Assistant Chair of Chemistry, Pace University, and Coordinator of Chemists Celebrate Earth Day, followed by opening remarks by Dr. Alison Hyslop, St. John's University and Chair of the ACS-NY Section. The Keynote Speaker, Prof. Bill Eaton, Chair of the Department of Biology, Pace University, NYC, delivered an enthusiastic, eye-opening, and informative talk entitled, *"Climate Change And Evidence For Its Impact In A Tropical Forest"*.

Each participant was provided with breakfast, snacks, and earth day gifts (recycled Earth Day rubber duckies and reusable, collapsible water bottles, earth day wrist bands, earth day buttons, and a reusable Hawaiian lei). Everyone was given a helium-filled Earth Day balloon to display while we all made our trek across the iconic Brooklyn Bridge. We had an Earth Day Banner which was carried to lead the way for our parade route from Pace University across the bridge. The event was co-sponsored by the Chemistry Club of Pace University, the Chemistry Club of St. John's University, and Saint Joseph's College.



U.S. Merchant Marine Academy (USMMA) Earth Day Celebration

On Saturday, **April 2** from noon to 3:30 pm, the faculty and Science Club members of USMMA assisted by Dr. Ping Furlan, celebrated Earth Day via hands-on activities at Saddle Rock Elementary Schools. More than 300 students in grades 1-5 (+ their parents) participated in and enjoyed the event! One big hit involved our demonstrations using alternative energies (solar, wind, etc.) to do useful work. One unit involved storing solar energy in hydrogen (via splitting water) and then using the hydrogen fuel later on to run a motor (zero emission)! We talked about the challenges including the low efficiency and the high cost associated with this technology and how we need the next generation of leaders to help realize these "green" ideas! The program includes the following activities include and intends to educate the young people about the importance of taking care of our environments via green chemistry/engineering/practices: 1. Water treatment; 2. Water Test - total ions; 3. Invisible Ink; 4. Making polymer – Slime; 5. Super absorbent polymers/Instant snow; 6. Corn Starch Pellets; 7. Marbling with Eco-friendly Shaving Cream; 8. UV light, Ozone layer and UV beads; 9. Solar Boat; 10. Wind Mill Generator; 11. Solar- Hydrogen Fuel Cell; 12. Light Emitting Diode.

HIGH SCHOOL CHEMISTRY OLYMPIAD

Nationally, more than 16,000 students from 144 local sections took the local exam. The exam is coordinated by Dr. Stephen Goldberg. In the New York Section a total of 280 students from 39 different high schools registered to take the local exam. Of the students who registered, 238 actually took the exam. The local exam was administered on March 5 (8 sites) and March 6 (3 sites). Again this year, the National Exam was administered at Adelphi University on Sunday, April 17. Of the 20 New York Section students who took the National Exam one obtained high honors and five obtained honors.

NATIONAL CHEMISTRY WEEK AT THE NY HALL OF SCIENCE

On Sunday, **Oct. 30** from 11 a.m. to 4 p.m., for the 12th consecutive year, more than 250 volunteers representing twenty-two area universities, nonprofit organizations, business centers and industries joined in the Local Section's effort and celebrated 2016 National Chemistry Week at the New York Hall of Science, located in Queens. Through forty tables of nearly fifty fun-filled hands-on activities, the program showcased the chemical principles relating to "Solving Mysteries through Chemistry!" and demonstrated the values of chemistry in our everyday lives. This year, the Section once again achieved the highest number of sponsoring organizations and offered the greatest number of tables of activity. Four generous donors included Hall of Science, Maruzen, Pearson, and 4Imprint that provided the program site, safety glasses and financial support. Admission to the Hall of Science was FREE on the event date from 10-11 a.m., allowing the Section to effectively reach and engage over 1,000 museum visitors, especially students in grades K-8, with this highly interactive outreach program.

Theme of forensics was will displayed through all of the different exhibits including "Secret Writing", "Invisible Ink", "Gas Chromatography", "Lifting Prints", "Glowing Blood Tests", "Detective Pen Chromatography", "Fruit DNA Extraction", "Who Is The Candy Culprit?", "Which One Is Water?", "What's In That Drink You Like So Much?", "The Secret Behind 'Fortune Telling'" and "Are These Cups Of Water The Same?". Representing the Section's Board of Directors, Dr. Paris Svoronos, the Section's Past Chair, hosted a table at the event. Dr. Alison Hyslop, the Section Chair, and Dr. Ping Furlan, the NCW Committee Chair, presented "Nickel (Ni)", "Palladium (Pd)" and "Platinum (Pt)" pins to fifteen coordinators of different participating organizations for their Long-term and On-going NCW Leadership and praised all the volunteers for their invaluable contribution to the success of this largest public outreach program of the New York Local Section.



Inside the Hall of Science, NCW balloons and ACS banners were seen everywhere in the hallway and stairs leading to the Viscusi Gallery where the event took place. At the admission table in front of the Gallery entrance, volunteers welcomed the children and other participants with program brochures and ACS giveaways, ensured they had eye protection and answered questions. During the whole day, the activity tables were crowded and swamped with the enthusiastic museum visitors. Children, parents, and the presenters alike obviously enjoyed their time spent together learning about chemistry, experiencing the "magic", color, and marvels chemistry brings to them. Thanks to the volunteers this year who collected a large number of program evaluation forms. The results were

extremely positive: 100% agreed that they learned something new or interesting at the event, would like to attend another event in the future, and think that chemistry is awesome or interesting after this event. Many also indicated that they would share what they learned with others after they get home! As the volunteers closed down the program, all were pleased with the day and felt gratified for being part of this terrific program. Many agreed – a year in advance – that they would be back for National Chemistry Week 2017! Coordinated by Drs. Ping Furlan, Erin Wasserman and Scott Lefurgy and their Committee.

NICHOLS FOUNDATION H. S. CHEMISTRY TEACHER AWARD JURY

During the summer of 2016, The Nichols Teacher Award Jury, chaired by Stephen Radice, met and selected the teacher awardee for 2016 who would receive the award at the Sectionwide Conference in January of 2017. The Section presented the Nichols Foundation High School Chemistry Outstanding Teacher Award for 2016 to Kristyn Pluchino of Stuyvesant High School.

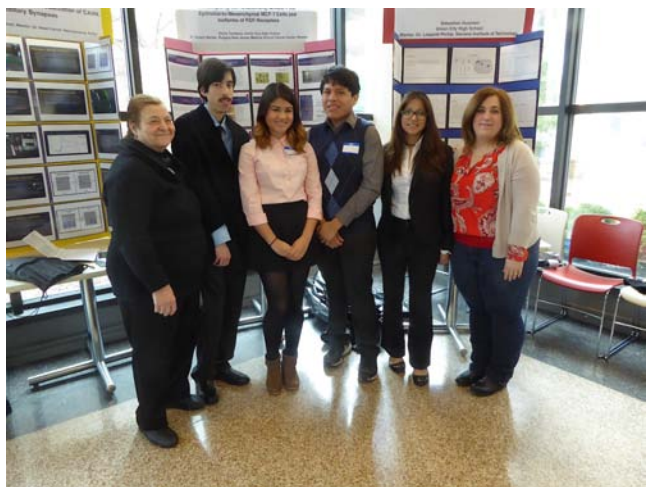


PROJECT SEED

The New York Section Project SEED, coordinated by Mrs. Nadia Makar, is one of the largest programs in the country and is functioning very well. It has produced great scientists, engineers, mathematicians, teachers, physicians and entrepreneurs. Professors from colleges, universities, research centers and hospitals served as mentors to 80 SEED I and SEED II students from economically disadvantaged families. Participating higher learning Project SEED is one of the best programs sponsored by ACS. It allows students to develop the skills necessary for them to succeed in college. The NY section had 80 SEED I and II. They did research at NYU, Columbia University, Stevens Institute of Technology, Saint Peters University, NJCU, NJIT, Rutgers University Newark, Rutgers University in New Brunswick, NJ Medical School, Cook College, Cancer Center of Rutgers Pharmacy School, Saint Barnabas Medical Center, Montclair State University, FDU, and Seton Hall University. The NY section had 13 SEED II students presenting at the 252nd national meeting in Philadelphia in August. The students also participated in several Research Posters Competitions including:

1. ACS Regional Research Posters Competition at Seton Hall University where students received 3 of the top awards given, 20 received 1st place, 16 received 2nd place award and 8 received 3rd place award.
2. 10 students participated in the Junior Science and Humanities Symposium that took place at Rutgers University in New Brunswick and 8 participated at Monmouth University Symposium and received several awards.
3. The regional Intel ISEF took place at Liberty Science Center and the NY SEED students captured 4 gold medals, 13 silver medals and 12 bronze medals. Of the two students who represented the regional at the national one student was a NY SEED.
4. The ACS NY section annual research posters competition took place at St Joseph College in February and NY seed students won several awards and prizes.
5. The research posters competition at Montclair State University took place in May and the NY SEED students captured most of the awards and prizes.

All of the NY SEED seniors students were accepted to college and many received scholarships and some got a full ride. One is now attending Brown University and studying chemistry. Two students were accepted to Columbia University where one will be studying chemistry and the other one will be studying civil engineering. One student is attending CalTec. Another SEED II student is studying at Swarthmore and received the project seed scholarship. Others are studying at local universities and they are all majoring in the STEM fields.



Project SEED is extremely successful in preparing students from inner cities who are economically disadvantaged to gain the skills that will allow them to succeed in college. This program helps students to build their self-confidence and their self-esteem. This program helps, not only the students, but their entire family. Too often after the student gets a college degree and a good job, they become role model for their siblings and sometimes their parents continue their education and end up getting good jobs. Previous participants are now professional engineers, physicians, and scientists. Many of them are working for global companies like Exxon Mobil, Merck, Apple, IBM, etc. Some have become teachers and college professors and are now mentoring the new generation of Project SEED students.

STUDENT ACS MEMBERSHIP – UNDERGRADUATE RESEARCH SYMPOSIUM

Group Photo



The Student Activities Committee of the New York Section of the American Chemical Society held its 64th URS on Saturday, **May 7** at Lehman College – CUNY in Bronx, N.Y. Approximately 101 presentations were made from undergraduates representing 31 different colleges and universities. There were 22 concurrent sessions in the areas of: Analytical Opening remarks were given by URS Co-Chairs Paul Sideris and Naphtali O'Connor, Lehman College Provost Dr. Anny Morrobel-Sosa, and the 2016 Chair of the New York Section of the American Chemical Society, Dr. Alison Hyslop. Naphtali O'Connor introduced the keynote speaker, Dr. Scott D. Edmondson from Merck and Co. Inc. Dr. Edmondson's keynote address was titled, "Stories of Drug Discovery: Discovery of JanuviaTM (Sitagliptin) For Diabetes And Vibegron For Overactive Bladder."

After several questions from the audience, a group photo was taken. The students were then directed to their presentation rooms. After the student presentations, the attendees gathered for lunch. URS Co-Chairs Meredith Foley and Ipsita Banerjee 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 The City College of New York.

Announcements for this event were made electronically by e-mail as well as advertising in *The Indicator*. Registration and abstract submission was done through unique pages on the NYACS website. This registration website was built and maintained by Brian Gibney, the NY-ACS webmaster. Five unique webpages were used to register attendees depending on whether they were presenters, mentors, moderators, exhibitors, or guests. A Program Book, containing the agenda, a list of all the presenters and their corresponding abstracts, was printed and given to each attendee.

MEMBER AFFAIRS COMMITTEES

EMPLOYMENT AND PROFESSIONAL RELATIONS

The committee, chaired by Dr. Hessay 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. 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.

ACS FELLOWS

The ACS Fellows Program recognizes "Members of ACS for Outstanding Achievements in and Contributions to Science, the Profession and the Society." 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.

HISTORY OF THE NEW YORK SECTION

On **Jan. 16**, at the Sectionwide Conference held at St. John's University, Dr. John Sharkey, Chair of the Committee on the History of the ACS New York Section, gave an illustrated presentation "The ACS New York Section at 125 years: A Celebration." The Section was chartered in 1891 as the second local section and since that time has distinguished itself in many ways: the formation of the Chemists' Club, the William H. Nichols Medal, the Undergraduate Research Symposium, the Nichols High School Teachers Award and has been involved in seven National Historic Chemical Landmarks. The presentation was converted to a PowerPoint with audio and placed on the NY Section web site.



On **June 10**, at the Middle Atlantic Region Meeting, in celebration of the 125th anniversary of the ACS NY Section, a symposium was held on chemistry in New York over this time span. Presentations included the history of Regents chemistry, biochemistry in New York, the Hickrill Chemical research Foundation, women chemists and their publications, William H. Nichols, Donald F. Othmer, and a reflection of chemistry in New York over the past 125 years. The last presentation described the involvement of the New York Section in seven National Historic Chemical Landmarks.

OUTSTANDING SERVICE AWARD

In 2016, the OSA Committee met and chose Dr. Paris Svoronos as the 2016 Outstanding Service to the New York Section Award recipient. Dr. Svoronos received the award at the January 2017 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. Dr. Svoronos was the force behind acquiring two Mid-Atlantic Regional Meetings (MARM), where he also served as General Co-Chair in 2008 and as Program Co-Chair in 2016. In addition, the 2008 MARM was hosted by Dr. Svoronos at QCC. He served as Chair of the NY Section in 2015, and thus also served several years on the executive board and multiyear terms on several NY Section committees. He served as Chair of the LI Subsection in 2002 and several years on the LI Subsection Executive Board. As Chair of the subsection he was also a member of the NY Section Board. He hosted two NY Section Undergraduate Research Symposia at QCC, in 2004 and in 2008. He was the creator of the annual LI Chem Challenge, which has now been running for over 15 years.

GOVERNMENT AFFAIRS

After several phone calls (1/7, 1/27, and 2/1) to Rep. Engel's office I, Dr. Marc Walters, Chair, was finally successful on 2/4 in having the NY ACS put on his the congressman's calendar for a meeting about the Chemistry Caucus. In the course of my conversation with his aide, Ms. Lori Copeland, I was told to expect to be called for a meeting with the congressman in March. Several members of the board volunteered to join a small delegation for such a meeting.

On 4/19 and 4/20 I called Congressman Moolenaar's office to learn more about the Chemistry Caucus in order to inform our eventual discussion with Congressman Engel. My conversation with Moolenaar's aide, Ms. Lindsay Schatner, served as an opportunity to introduce the NY ACS's interest in the Chemistry Caucus. She suggested that the most useful information about the caucus would be available from the ACS.

As you may know the ACS recently held a launch event* on April 28 for the Chemistry Caucus. Perhaps now, with our activities following the launch event we may be able to elicit better responses from our congressional representatives.

EXECUTIVE COMMITTEES

COUNCILOR COORDINATING COMMITTEE

The Councilor Coordinating Committee, chaired by Dr. Ron D'Amelia, consisted of all Certified Councilors and Alternate Councilors for 2016. Our roster categorizes the councilors and alternate councilors by term and also lists the 2016 current National committee appointments. The roster also lists the current 2017 councilors and alternate councilors. There were two National ACS meetings held this year: one was held in San Diego, CA March 20-25, 2016 and the other was held in Philadelphia, PA, August 21-25, 2016.

Summary of Activities from the San Diego Meeting:

The New York section had full representation at the San Diego meeting. Dr. Donald Clarke attended the council meeting in place of Dr. Jaimelee Rizzo and Joan Laredo Liddell attended in place of Dr. Pam Kerrigan. The council meeting took place on March 16th at the Hilton San Diego Bay Front Grand Ballroom. The District I caucus took place on Tuesday March 15th 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 16, 398 attendees. 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 2017 at the fully escalated rate of \$166. The council selected two candidates for the 2017 ACS president-elect: Peter K. Dorhout and Thomas R. Gilbert. The Committee on Nominations and Elections announced the selection of candidates for Directors-at-Large for a 2017-2019 term. As part of a regular performance review, the Council VOTED unanimously to continue the Committees on Ethics and Science. Continuation of these two committees requires Board concurrence. A special discussion item was put on the Council agenda for this meeting. The topic was Gathering input: ACS Presidential Task Force on the US Employment of Chemists. The Council requested that the Board of Directors delay the implementation of the technical meeting additional fee to the meeting registration of \$15. All councilors are reminded to complete their online committee preference form for 2016. SOCED reported the more than 1.9k individuals have joined AACT.

The District 1 director held a region caucus on Tuesday March 15th. The meeting agenda included the current council agenda items and any other issues within the region. Joan Laredo-Liddell reported on her activities on the SOCED committee and the development of High School Chemistry Clubs. Ronald D'Amelia reported on his activities on the Committee on Community Activities (CCA)

Summary of Activities from the Philadelphia Meeting:

The New York section had all its councilors at the council meeting held in Philadelphia. The council meeting took place on Wednesday August 24th at the Philadelphia Marriott hotel. The district I caucus took place on Tuesday August 23rd from 5:30 to 7:00 pm in the same hotel. Some of our Councilors attended the Chem-Luminary awards ceremony on Tuesday August 23rd. The New York section won several Chem-Luminary 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) for the 2017-2019 terms. Our own Dr. Neil Jespersen was elected for a one year term on the Committee on Nominations and Elections. N&E announced the candidates for the fall 2016 election for President-Elect, Directors at-Large. Total attendance for the Philadelphia meeting was 12, 800 attendees. CPC was asked to review the way Local Sections and Divisions are currently represented on Council. The task force is examining issues that effect Divisor formulae set out in the Bylaws. SOCED voted to approve revisions to the ACS Guidelines for Chemistry in Two-Year Colleges. 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 2017. Dr. D'Amelia as a team member for NCW 2016 reported that the NCW Celebrating Chemistry edition for "Solving Mysteries through Chemistry" was ready for publication. District 1 meeting in San Francisco Spring 2017) will be on Sunday and for Washington DC (Fall 2017) will be on Tuesday. Advanced registration fee for the National meetings in 2017 will be \$445.



LONG RANGE PLANNING

The Long Range Planning Committee, chaired by Dr. Brian Gibney, met using WebeX to decide the 2016 Nichols Fellowship recipients.

NICHOLS MEDAL JURY

The Nichols Medal Jury, chaired by Dr. Phil Mark, met in a one-day in person meeting on June 17 to determine who will be honored with the William H. Nichols Medal Award for 2017. Dr. Chad Mirkin of Northeastern University was chosen to be the Medalist for 2017. There were about 30 nominations.

EASTERN ANALYTICAL SYMPOSIUM

For over 50-years the New York Section of the American Chemical Society has been a sponsor of the Eastern Analytical Symposium and Exhibition (EAS). The EAS is held annually in New Jersey with the goal of offering cutting edge insight into analytical chemistry for professionals and students by presentations of papers (both oral and poster), workshops and short courses. The exhibition showcases the latest analytical instrumentation, supplies, publications and scientific societies supporting analytical chemistry. New York Section has a booth at the exhibition to recruit new ACS members and to greet our current members. In addition two members of the NY Section served on the governing board of the Eastern Analytical Symposium and Exposition for 2016. Barbara Hillery was the Chair of Fundraising and Frank Romano was the Chair of Short Courses. Other New York Section members assisted at various venues - Robert Nolan and Brian Gibney at the membership table, Neil Jespersen at the registration booth. The EAS theme for 2016 was *Analytical Chemistry Opens Doors*.

EAS (2016) was attended by 2,005 participants - about half attending the full conference. The other attendees were expo personnel and expo only attendees. A survey of the employer category drew 1,222 responses. Of

those, 812 were from industry and about 292 from academia (both faculty and students) and the other 10% were from the government, self-employed or retired categories.

The primary job responsibility of those attending EAS was about 50% were industrial chemists and scientists and 18% were students. The others were professors, lab managers, administrators, technicians, and sales. At the exhibition there were 134 booths and tabletops. The value of the booth, tabletops, rooms rented and sponsorships was \$280,000. There were an additional 26 exhibitors in 2016 not with us in 2015. The primary technical interest of the largest group attending, 30%, was some form of chromatography. The next largest was at about 20% and was some form of spectroscopy. About half of the latter group was interested in mass spectroscopy.

The 2017 Symposium and Exhibition will be moving to a new location, the Crowne Plaza Princeton Conference Center in Plainsboro, NJ. The dates for this year's EAS are November 13-15 and this year's theme will be *Building Our Analytical Future*.



Brian Gibney & Robert Nolan – At NY ACS Table



Neil Jespersen Volunteering at EAS Registration

MORE EXCELLENT OUTREACH ACTIVITIES

USMMA STEM NIGHT AT BAKER SCHOOL

On **Jan. 12**, the U.S. Merchant Marine Academy (USMMA) Science Club and faculty provided interactive hands-on science activities to over 150 students (plus their parents) at the Second Annual Family STEM (Science, Technology, Engineering, and Mathematics) Night at the Elizabeth M Baker Elementary School in Great Neck, N.Y. The presentation highlighted the following themes: Water, Water, Everywhere, Harnessing Green Energy, and Chemical Products Are Going Green! The themes provided an opportunity for the local youth to experience the fun of making slimy slime, growing instant snow, and creating colorful artwork. Students also learned about solar energy, light emitting diodes and water solution conductivity. The activities were prepared to educate the students about the importance of using and searching for green and alternative energy and products. The event was well received by all who were presented. Please see the headline article prepared by Captain Ben Benson on the event, entitled "Science Club Makes Splash at the Local Schools Family STEM Night" at

<https://www.usmma.edu/academics/scienceclub-makes-splash-local-school%E2%80%99s-family-stem-night>.



BADGE PROGRAMS FOR DAISY AND BROWNIE GIRL SCOUTS

Saint Peter's University organized two programs for the Girl Scouts of Hudson and Bergen County in 2016, co-sponsored by the New York Section of ACS. Each program fulfilled the requirements for a badge at the appropriate level. Working with the students in the lab were Dr. Patricia Redden and Saint Peter's University students volunteering through Collins Chemistry Society, Gamma Sigma Epsilon chemistry honor society, and students enrolled in Dr. Redden's course for elementary education majors, Methods of Teaching Science in the Elementary School.

February 27:

This was a program for 52 Junior and Cadette Girl Scouts, which earned them the Forensics badge. The scouts were divided into five groups and rotated through five experiments. A sample schedule for one group was:

1:00 – 1:15 pm	Check-in in Gannon Hall, Room 1 (basement)
1:20 – 1:50 pm	Room 101, 1 st floor – Examine hairs under the microscope
1:55 – 2:25 pm	Room 104, 1 st floor – Examine and measure bones
2:30 – 3:00 pm	Room 205, 2 nd floor – Take and examine fingerprints
3:00 – 3:15 pm	Cookie break, Room 1
3:20 – 3:50 pm	Room 204, 2 nd floor – Blood typing
3:55 – 4:25 pm	Room 201, 2 nd floor – Examine a crime scene (see picture)
4:30 pm	Room 1, wrap-up



April 16:

At this program, 56 Brownie and Daisy Girl Scouts earned the Home Scientist badge. Again, they rotated through five experiments, and a sample schedule was:

1:00 – 1:10 pm	Check-in in Gannon Hall, Room 1 (basement)
1:15 – 1:45 pm	Room 101, 1 st floor – Exploding Colors
1:50 – 2:20 pm	Room 104, 1 st floor – Static Electricity
2:25 – 2:55 pm	Room 205, 2 nd floor – Slimy Stuff
3:00 – 3:10 pm	Cookie break, Room 1
3:15 – 3:45 pm	Room 204, 2 nd floor – Bubble UP
3:50 – 4:20 pm	Room 201, 2 nd floor – Shrinking and Growing
4:25 pm	Room 1, wrap-up

