

## New York Section Congratulates Three New ACS Fellows



**JaimeLee lolani Rizzo**  
Pace University



**Peter W. R. Corfield**  
Fordham University



**Nicole S. Sampson**  
Stony Brook University

*See article on page 5.*

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## **THIS MONTH IN CHEMICAL HISTORY**

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

About 25 years ago I was invited to contribute a couple of articles to a new collection. I was pleased to do so. The book was “Women in Chemistry and Physics: A Bibliographic Sourcebook” edited by Louise S. Grinstein, Rose K. Rose, and Miriam H. Rafailovich (Greenwood Press, 1993). In this and a number of following columns I plan to mine the resources of this sourcebook and introduce my readers to the lives and careers of excellent scientists, who may be under-appreciated by our community, and who happened to be women.

Ruth Rogan was born in New Orleans in January 1912 to a civil engineer father and a mother she later described as a “truly liberated woman”. Ruth was a gifted student who graduated from high school at age 14 and entered Newcomb College, the women’s college of Tulane University, at age 15. (Followers of the Antiques Roadshow will recall Newcomb ceramics.) She graduated in 1935 with a degree in chemistry, physics and mathematics, and did one year of graduate work at Bryn Mawr. Back at Newcomb she taught chemistry and took night classes at Tulane for a Master’s degree. She earned her Ph.D. at the University of Chicago in 1948 working in physical chemistry. In 1950 she married Frank Benerito and became known thereafter as Ruth Rogan Benerito. (Her husband died in 1970). In 1953 she left her faculty position at Newcomb to join the U.S. Department of Agriculture’s research center in New Orleans. It was in this position that she made discoveries that have affected all our lives!

Initially she worked in the Intravenous Fat Program and steadily rose through the ranks at the center becoming in succession a project leader, acting head of the Colloid Cotton Laboratory, and leader of the physical chemistry group. She took a postdoctoral year off in 1972 at Tulane, and was a continuing lecturer at both Tulane and the University of New Orleans. At the research center she focused on the applications of the physical chemistry of colloids and surfaces to practical problems. She eventually was granted 55 patents in one particular area: the modification of the surface of cotton by the application of certain organic acid chlorides. Her work led to the production of wrinkle-resistant fabrics – the wash-and-wear with which we are all familiar, and for which we are all grateful – except the makers of electric irons. In this area she acknowledged the work of others:

“I don’t like it to be said that I invented wash-wear, because there were any number of people working on it, and there are various processes by which you give cotton those properties,” she said. “No one person discovered it or was responsible for it. But I contributed to new processes of doing it.”

Benerito also carried out pioneering work in other areas: on the modification of textile surfaces with polyfluoro organic acids that led to fabrics that shrugged off both oil and water and that are widely used in rain-repellant garments; and in treatments of cotton to reduce flammability. In all she had hundreds of publications, and made presentations all over the world. Her honors included the Garvan Medal of the ACS in 1970; several ACS local section awards; the USDA Distinguished Service Award; and the Federal Women’s Award. She was awarded an honorary degree by Tulane in 1981 and was inducted into the National Inventors Hall of Fame in 2008. She died in 2013 at the age of 97.

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The monthly newsletter of the New York & North Jersey Sections of the American Chemical Society. Published jointly by the two sections.

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*The Indicator* (ISSN0019-6924) is published on-line monthly except July and August by the New York and North Jersey Sections of the American Chemical Society, Office of Publication, 1 Milbark Court, Homosassa, FL 34446.

All views expressed are those of the editor and contributors and do not necessarily represent the official position of the New York and North Jersey Sections of the American Chemical Society unless so stated. Distributed electronically to members through the website [www.TheIndicator.org](http://www.TheIndicator.org). Non-members are invited to read it online. Members should register their email addresses at [www.acs.org/editmyprofile](http://www.acs.org/editmyprofile).

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

## September Calendar

### NEW YORK SECTION

**Friday, September 15, 2017**

New York Section Board Meeting  
See page 6.

**Friday, September 15, 2017**

High School Teachers Topical Group  
See page 6.

**Tuesday, September 26, 2017**

Biochemical Topical Group  
See pages 6-7.

*also*

**Saturday, October 14, 2017**

National Chemistry Week - Chemistry  
Rocks  
See page 12.

**Tuesdays, October 17, 2017; January 30,  
2018, and June 19, 2018**

New York Nanoscience Discussion Group  
See page 7.

**Friday, October 27, 2017**

Inorganic and Organometallic Symposium  
See page 8.

**Friday, October 27, 2017**

ION Poster Session  
See page 8.

**Tentatively: October, November, and  
December, 2017**

Westchester Chemical Society  
See pages 8-10.

### NORTH JERSEY SECTION

**Tuesday, September 12, 2017**

Mass Spectrometry Discussion Group  
See page 14.

**Monday, September 25, 2017**

North Jersey Executive Meeting and  
Project SEED Poster Session  
See page 13.

*also*

**Thursday, October 12, 2017**

Drug Metabolism Discussion Group  
See page 15.

**Saturday, October 21, 2017**

National Chemistry Week - Chemistry  
Rocks  
See page 17.

**Friday, December 8, 2017**

Baekeland Symposium and Award  
Celebration  
See page 15.

**Deadline for items to be  
included in the October 2017  
issue of *The Indicator* is**

**August 28, 2017**

**The Indicator is posted to the web  
around the 15th of the previous month at**

**[www.TheIndicator.org](http://www.TheIndicator.org)**



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## ACS Fellows Program

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The American Chemical Society (ACS) Fellows Program was created by the ACS Board of Directors in December 2008 to recognize members of ACS for outstanding achievements in and contributions to science, the profession, and the Society. Read more about the program purpose.

### 2017 ACS Fellows

ACS is proud to announce its 2017 ACS Fellows. Congratulations to our 65 members for their outstanding achievements in and contributions to science, the profession, and the Society. The 2017 ACS Fellows were announced in the June 19 issue of C&EN and will be honored at the fall ACS National Meeting in Washington, DC.

#### **JaimeLee Iolani Rizzo** Pace University

Contribution to the science/profession: Honored for research involving the development of novel antimicrobial materials bearing major significance for public health. Materials include carbohydrate-based surfaces and naturally derived surfaces infused with essential oils.

Contribution to the ACS community: Recognized for outreach to young people and the general public with the creation of a new Chemists Celebrate Earth Day event, two new high school outreach events, and supporting existing ones within the Local Section.

#### **Peter W. R. Corfield** Fordham University

Contribution to the science/profession: Recognized for his research, extensive work with teachers and students in science education, and his impact on diversity in the science workforce through work with minority and economically disadvantaged students.

Contribution to the ACS community: Honored for service in the New York Local Section for over 40 years, including his ongoing support and direction for the educational programs of the Westchester Subsection that he developed.

#### **Nicole S. Sampson** Stony Brook University

Contribution to the science/profession: Recognized for her work translating the mycobacterial cholesterol metabolism pathway into drug targets and developing precision polymer chemistry and probes to unravel receptor interactions in mammalian fertilization.

Contribution to the ACS community: Served as Chair of the Joint Board-Council Committee on Publications, as a Councilor for the Division of Biological Chemistry, and on ACS National Award Committees.

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## New York Meetings

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

### NEW YORK SECTION BOARD MEETING DATES FOR 2017

The dates for the Board Meetings of the ACS New York Section for 2017 have been selected and approved. The meetings are open to all – everybody is welcome. All non-board members who would like to attend any of the meetings should inform the New York Section office by emailing Mrs. Marilyn Jespersen at [njesper1@optonline.net](mailto:njesper1@optonline.net) or by calling the Section office at (516) 883-7510.

All 2017 Board Meetings will be held at The Graduate Center, Science Center, Room 4102, 365 Fifth Avenue, New York, NY 10016, except for the January 21 Section-wide Conference and March 24 Nichols Symposium. Prof. Brian Gibney will chair all meetings. Refreshments will be available starting at 6:00 PM while the actual meeting will start at exactly 6:30 PM.

The board meetings dates for 2017 will be  
**Friday, September 15, 2017**

Friday, November 17, 2017

More information will be posted in future monthly issues of The Indicator and on the New York website at

<http://www.NewYorkACS.org>.



### HIGH SCHOOL TEACHERS TOPICAL GROUP

**Topic: Professor Santulli will be speaking on a topic related to photovoltaic cells and solar energy.**

**Speaker:** Prof. Alexander Santulli  
Manhattan College  
[alexander.santulli@manhattan.edu](mailto:alexander.santulli@manhattan.edu)

**Date: Friday, September 15, 2017**  
**Times:** Social and Dinner — 5:45 PM  
**Place:** Social and Dinner — [This location is tentative] Thomas Hall on the Manhattan College campus.  
Thomas Hall offers an all-you-can-eat dinner from over 16 dining stations for \$12 (cash or credit card) from 5 to 8 PM, and it is a short walk from there to Hayden Hall.

**Times:** Meeting — 7:15 PM

**Place:** Meeting — [Tentative location]  
Hayden Hall of Manhattan College  
– accessed from the 242 Street Station on the #1 subway line.



### BIOCHEMICAL TOPICAL GROUP — JOINT MEETING WITH THE NY ACADEMY OF SCIENCES BIOCHEMICAL PHARMACOLOGY DISCUSSION GROUP

**Targeting RNA Using Small Molecules**

**Organizers:** Samuel Hasson, PhD  
Pfizer  
Lyn Jones, PhD  
Jnana Therapeutics  
Martin Pettersson, PhD  
Pfizer  
Claire Stepan, PhD  
Pfizer  
Erick Young, PhD  
Boehringer Ingelheim  
Sonya Dougal, PhD  
The New York Academy of Sciences  
Caitlin McOmish, PhD  
The New York Academy of Sciences

**Speakers:** Nathan J. Baird, PhD  
University of the Sciences  
Matthew D. Disney, PhD  
Scripps Research Institute  
Amanda L. Garner, PhD  
University of Michigan  
John A. Howe, PhD  
Merck Research Laboratories  
David H. Mathews, MD, PhD  
University of Rochester  
Kevin M. Weeks, PhD  
University of North Carolina  
Steven C. Zimmerman, PhD  
University of Illinois

This symposium will explore new research on RNA dynamics covering currently available assays, detection tools, and imaging platforms, while also providing an in-depth discussion of recent advances for studying RNA function, and ultimately targeting RNA for treating and curing disease.

**Date:** Tuesday, September 26, 2017

**Time:** 9:00 AM – 5:00 PM  
(reception to follow)

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

**Cost:** This event has reduced-rate registration for ACS and NYAS members, at \$60 or \$25 (for students and post-docs). Please select the appropriate non-member Registration Category and use the Priority Code ACS. Non-members may attend for a fee of \$160 (corporate), \$105 (non-profit or academic) or \$70 (students and post-docs).

For more information and to register for the event, go to: [www.nyas.org/RareDiseases](http://www.nyas.org/RareDiseases).

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



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

To Human Resources Departments in Industry and Academia

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

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



## NY NANOSCIENCE DISCUSSION GROUP

### 2017-2018 Sessions

*Hosted by the New York University  
Department of Chemistry*

*Speakers to be announced.*

The NYNDG is an ACS Topical Group that meets in the New York University Department of Chemistry. Sessions feature three 30-minute presentations on nanoscience, one each with strong orientation in biology, chemistry, and physics/applied mathematics. Presentations will be focused on discussion of recent work, although speakers will place the work in a context understandable to a broad audience.

### Mark your Calendars:

**Dates:** Tuesday, October 17, 2017  
Tuesday, January 30, 2018  
Tuesday, June 19, 2018

**Times:** Refreshments — 7:00 PM  
Science — 7:30 PM

**Place:** New York University  
Department of Chemistry  
Silver Center, 31 Washington  
Place (between Washington  
Square East and Green Street)  
Room 1003 (10th Floor)  
New York, NY

For more information, contact: James  
Canary ([james.canary@nyu.edu](mailto:james.canary@nyu.edu))

Topical Group History:  
[http://www.nyu.edu/  
projects/nanoscience](http://www.nyu.edu/projects/nanoscience)

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## FRONTIERS OF INORGANIC AND ORGANOMETALLIC CHEMISTRY SYMPOSIUM

Please join us for the **Frontiers of Inorganic and Organometallic Chemistry Symposium**. The lecture symposium will feature several short research presentations by inorganic chemists of the NY ACS local section followed by a keynote lecture given by Prof. Cathy Murphy of University of Illinois at Urbana-Champaign.

### Save the Date:

**Date:** Friday, October 27, 2017

**Time:** 1:30 PM

**Place:** Morningside Campus  
Columbia University

Free registration will be available at [newyorkacs.org](http://newyorkacs.org) in August.



## ION (INORGANIC, ORGANOMETALLIC, NANO) POSTER SESSION SOCIAL

Graduate students and postdoctoral researchers are invited to present their recent research posters with local colleagues at the ION (Inorganic, Organometallic, Nano) Poster Session Social (immediately following the Frontiers of Inorganic and Organometallic Chemistry Symposium). Posters from 2017 National or Regional meetings are welcome! Submission details and free online registration will be available at [newyorkacs.org](http://newyorkacs.org) in August.

### Save the Date:

**Date:** Friday, October 27, 2017

**Time:** Immediately following the Frontiers of Inorganic and Organometallic Chemistry Symposium

**Place:** Morningside Campus  
Columbia University

Contacts: Inorganic Topical Group co-chairs James Camara ([camara@yu.edu](mailto:camara@yu.edu)) and Kathleen Kristian ([kkristian@iona.edu](mailto:kkristian@iona.edu))

## WESTCHESTER CHEMICAL SOCIETY

### FUTURE MEETINGS

#### Special Seminar – “R&D at Union Carbide Tarrytown Technical Center 1959 - 1990”

**Speaker:** Kenrick M. Lewis, PhD  
Corporate Research Fellow  
Momentive Performance  
Materials  
769 Old Saw Mill River Road  
Tarrytown, NY

#### Abstract:

Situated on the site of the former Butler Farm in East View, NY, the Union Carbide Technical Center was a large diversified, campus-style research and office complex. At its peak in the mid-1980's, there were about two thousand employees, approximately half of whom were engaged in laboratory-related research and development. The Center was established in 1959 when Carbide-sponsored researchers at The Mellon Institute were relocated to Tarrytown. The first building was a Technical Service Laboratory (later called the Chemicals Building). In the period, 1961 – 1969, construction was completed of the Union Carbide Research Institute (Corporate Research Laboratory), Home and Automotive Products Laboratory, Silicones R&D Laboratory, Spine Building and Linde Laboratory.

These buildings and the Center's infrastructure and supportive technical managers provided an environment conducive to productive research by committed visionary scientists. Research activities in the different laboratories included work on cryogenics, superconductivity, metallurgy, welding, gas separations, molecular sieve synthesis and catalysis, silanes and silicones, vinyl resins, phosphorimetry, carbon clusters and flash vacuum pyrolysis. My presentation will highlight the research and scientific contributions of Edith Flanigen (Molecular Sieves), Lawrence Litz (Advanced Gas Reactors), Bernard Kanner (Silane Coupling Agents and Silicone Surfactants for Polyurethane Foams) and my collaboration with Donald McLeod in the discovery of methylchlorosilylene ( $\text{CH}_3\text{SiCl}$ ) as the key intermediate in the Rochow-Müller Direct Synthesis of Methylchlorosilanes.

This talk is based on an invited lecture, “Golden Age of R&D at Union Carbide Corp



Tarrytown Technical Center," presented at the Spring 2017 ACS National Meeting in San Francisco.

### Biography:

Dr. Kenrick Martin Lewis is a Corporate Research Fellow with Momentive Performance Materials in Tarrytown, NY. He joined the Linde Research Dept. of Union Carbide in January, 1977 and has been at the Tarrytown Technical Center since then. Dr. Lewis's research interests encompass both process and materials chemistry. In process chemistry, he has contributed to the fundamental understanding and technological exploitation of the catalytic transformations of silicon and silicon compounds. These include direct syntheses of silanes from silicon, hydrosilylation and redistribution/disproportionation of organosilicon compounds. Use of nanosized materials in the catalyses is a particular emphasis. The materials chemistry interests are focused on structure-property relationships among siloxane-polyether copolymers, surface modification of polysiloxanes in medical, dental and urethane foam applications. He is co-editor of *Catalyzed Direct Reactions of Silicon* (Elsevier, 1993), author of forty-six technical publications, and inventor of twenty-six issued US patents.

Dr. Lewis was born in Grenada, West Indies, and completed his secondary education there. His degrees are from the University of Alberta (Edmonton), BS (first class honors in chemistry), and from the University of Massachusetts (Amherst), Ph.D. (Inorganic Chemistry). Dr. Lewis has been the recipient of many scholarships, prizes and awards from his studentship to the present time. These include the Latimer and Langmuir Awards at General Electric Co., Caribbean Icon of Science and Technology from the Caribbean Council for Science and Technology, and a Key Contributor to the 1999 Kirkpatrick Award for Innovation in the Direct Synthesis of Trimethylsilane.

### Date: TBD, October, 2017

Times: Refreshments – 5:30 PM

Lecture –6:00 PM

Place: Westchester Community College

75 Grasslands Road

Valhalla, NY 10595

Gateway Building Room 110

Cost: Free and Opened to the Public

For further information: contact Paul Dillon

E-Mail [PaulWDillon2@hotmail.com](mailto:PaulWDillon2@hotmail.com)

Phone 1-914-393-6940

\*\*\*\*\*

## FUTURE MEETINGS

### Special Seminar – “Ligand-Guided Selection (LIGS): A SELEX Variant to Identify Specific Aptamers Against Cell-surface Markers”

*Speaker:* Prabodhika Mallikaratchy, PhD  
Assistant Professor of Chemistry  
New Science Hall  
Office S-4404/Lab S-4401  
City University of New York-  
Lehman College  
250 Bedford Park Blvd. West  
Bronx, NY 10468

### Abstract:

Nucleic Acid Aptamers (NAAs) are a class of molecules with significant potential in developing molecular tools in biomedical applications. Aptamers are selected using a screening method called Systematic Evolution Ligands by EXponential enrichment (SELEX). Recently, a number of SELEX approaches utilizing whole cells to evolve aptamers against cell-surface membrane proteins were introduced. To this end, we reported on a new variant of SELEX termed Ligand-Guided-Selection (LIGS) to identify highly specific aptamers against a predetermined epitope of a cell-surface target. Hallmark of LIGS is rooted in the ability to exploit the evolutionary selection step in SELEX as a strategy to evolve highly specific aptamers. The iterative process in conventional SELEX is designed to outcompete low-affinity binders through a competitive process whereby high affinity binders move on through the selection process. By introducing a naturally occurring stronger, highly specific bivalent binder, for example, an antibody (Ab) interacting with its cognate epitope, LIGS out-competes specific aptamers from a partially enriched SELEX pool against cells expressing the same epitope. Utilizing LIGS we have selected aptamers against membrane bound IgM (mIgM) expressed on B-cells and Cluster of differentiation 3 (CD3) expressed on T-cells. Based on the detailed validation studies conducted using one of the aptamers selected using LIGS, we will show that aptamers identified using LIGS can be optimized into higher affinity variants. In addition, we will show that LIGS generated aptamers show similar specificities to that of the secondary ligand utilized to out-compete the aptamers. Presentation will conclude with a short dis-

(continued on page 10)

## WESTCHESTER CHEMICAL SOCIETY

(continued from page 9)

cussion on ongoing projects aimed at selecting DNA aptamers against CD3 molecule expressed on human T-cells at physiological temperatures.

### Biography:

Dr. Mallikaratchy obtained her undergraduate degree in chemistry from The Institute of Chemistry, Colombo, Sri Lanka in 2000, her M.S. in organic chemistry from the University of Louisiana, Monroe, LA in 2003, and her PhD in analytical biochemistry from the Center for Bio-Nano Interface, The University of Florida, Gainesville, FL in 2008. From 2008 to 2012, she was a research fellow at The Memorial Sloan-Kettering Cancer Center, in New York, NY. In 2012, she was appointed as Assistant Professor in the Department of Chemistry, PhD program in Chemistry and Biochemistry, at the Graduate Center of the City University of New York. There, she has worked to lay the groundwork to establish a new method for aptamer selection, resulting in a patent application and two peer-reviewed publications. Concurrently, she established her lab in the Department of Chemistry at Lehman College (CUNY). She has an extensive background in aptamer selection and manipulation of aptamers to develop molecular tools for disease detection and therapy. A number of aptamer selection methods have become available to select aptamers against cell-surface proteins; however, none of these methods has successfully identified aptamers specific to an antigen of a cell-surface receptor at its endogenous level and native conformation. Such precise targeting of known proteins will determine the success of molecular tools used for disease detection and therapy. Therefore, to select aptamers against the predetermined site of a cell-surface receptor in its native state, her group, for the first time, introduced a simple method called Ligand-guided Selection (LIGS), the subject of the current talk. She has received several awards (the 2008 Crow Stasch Awards for excellence in publications, University of Florida Recipient, the 2009 Lauri Strauss Leukemia Research Fellow award, the 2010-12 Lymphoma Research Foundation Research Fellow award, and the 2017 Junior Faculty Research Award-runner-up at CUNY). She is also a member of several professional associations.

**Date:** TBD, November, 2017

Times, Place, Cost and Further Information:  
See October announcement on page 9.

\* \* \* \* \*

### FUTURE MEETINGS

**Special Seminar – “FTIR Microscopy and Imaging – When You Need It and How To Use It”**

*Speaker:* Linda Kidder Yarlott, PhD.  
Product Manager – Molecular Spectroscopy  
Shimadzu Scientific Instruments, Inc.  
7102 Riverwood Drive  
Columbia, MD

Abstract and Biography: Not yet available.

**Date:** TBD, December, 2017

Times, Place, Cost and Further Information:  
See October announcement on page 9.



## ACS NEW YORK SECTION'S 2017 ELECTION RESULTS

The results of the ACS New York Section's 2017 elections were announced at the Board of Directors meeting on June 9, 2017. The New York Section extends a sincere thank you to all of the candidates and expresses its appreciation for their time and efforts in preparing for the elections. Congratulations to the following.

### Chair-Elect for 2018

Justyna Widera-Kalinowska  
(Adelphi University)

### Treasurer for 2018 and 2019

Frank R. Romano  
(Agilent Technologies)

### Director-at-Large for 2018

Yosra M. Badiei  
(St. Peter's University)  
Paul Dillon  
(Siemens Healthcare Diagnostics)  
Meredith Foley  
(New Jersey City University)

### Councilor for 2018 to 2020

Barbara R. Hillery  
(SUNY – Old Westbury College)  
Patricia A. Redden  
(St. Peter's University)

Marc A. Walters  
(New York University)

#### Alternate Councilor for 2018 to 2020

Donald D. Clarke  
(Fordham University)

Ronald P. D'Amelia  
(Hofstra University)

Hiroko I. Karan  
(CUNY – Medgar Evers College)

#### Alternate Councilor for 2018 and 2019

##### Vacancies

Brian R. Gibney  
(CUNY – Brooklyn College)

Rita K. Upmacis  
(Pace University)



## NEW YORK SECTION RECEIVES ACS GRANT

*This letter was sent on behalf of Jason Ritchie, Chair of the ACS Committee on Local Section Activities (LSAC) and Greg Milligan, Chair of the LSAC Subcommittee on Grants and Awards.*

Dear Officers and Councilors of the  
New York Local Section:

Thank you for applying for a Local Section Science Café Mini-Grant. The LSAC Subcommittee on Grants and Awards has completed its review process.

We are pleased to inform you that the New York Section's proposal, titled "Sustainability in Today's Society", has been funded \$500.

In order for the Local Section Treasurer to receive the funds via electronic funds transfer by August 25, 2017, the Chair needs to complete the online acknowledgement and acceptance form for the grant no later than Friday, June 30, 2017. The acknowledgement and acceptance online form includes the chair and local section name, the amount of the grant, and that you accept the grant.

A final report on the use and impact of the 2017 funds by your local section's science café will be due upon completion of your project. Please note that the funds may not be used to pay honoraria or stipends for speakers/trainers/program coordinators nor may the money be used for alcoholic beverages or meals for local section members (other than light snacks).

Congratulations on submitting a winning proposal! LSAC looks forward to hearing about the success of your proposed activities in your 2017 Local Section Annual Report and possibly in a ChemLuminary Award self-nomination. Please help us document the success and impact of your activities and programs in your final report so that we might share those ideas with other local sections.

Should you have any questions regarding this grant program, please e-mail [lsac@acs.org](mailto:lsac@acs.org).

Sincerely,  
Jason Ritchie and Greg Milligan



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Help the New York Section of the American Chemical Society to celebrate National Chemistry Week 2017 with the theme

## Chemistry Rocks!

- When:** Saturday, October 14, 2017 (11 AM – 4 PM)  
**Where:** New York Hall of Science (NYSCI), Flushing, Queens  
**What:** Over 20 tables of hands-on experiments, activities, demonstrations, and giveaways. Special photo opportunities.  
**Who:** Last year, activities were presented by 250 volunteers and engaged more than 1,200 community youth and parents. Participants included some of the most prestigious colleges, universities and industries, and the Program received the esteemed American Chemical Society *Partners for Progress and Prosperity Award 2017!*

The New York Section needs your help to make this year's National Chemistry Week (NCW) Celebration another success! If you and your organization are interested in participating in or sponsoring an activity table at the event, please visit the New York Section's NCW website at [http://www.newyorkacs.org/meetings/NCW/2017\\_ncw.php](http://www.newyorkacs.org/meetings/NCW/2017_ncw.php). The site also links to **online registration, which is open till September 20, 2017.**

For more information about the NCW celebration in New York, please contact Dr. Ping Furlan ([furlanp@usmma.edu](mailto:furlanp@usmma.edu)), Dr. Scott Lefurgy ([Scott.T.Lefurgy@hofstra.edu](mailto:Scott.T.Lefurgy@hofstra.edu)), or Mrs. Erin Wasserman (illustrated poem contest coordinator, [ewasserman602z@gmail.com](mailto:ewasserman602z@gmail.com)). We look forward to your participation and your organization's sponsorship as we celebrate the important roles chemistry plays in our everyday lives and how it can be FUN! Please include activities highlighting the yearly theme, "Chemistry Rocks!" Volunteers' parking at NYSCI is FREE.

You can also find additional information about NCW on the American Chemical Society's website at <https://www.acs.org/content/acs/en/education/outreach/ncw/about.html>.



New York Local Section, American Chemical Society, <http://www.newyorkacs.org/>

## ACS PROGRAM IN A BOX

### Chemistry Rocks! Exploring the Chemistry of Rocks

We are surrounded by rocks and minerals everywhere...in the ground we walk on, the places we work and live, and even in the food we eat. How are chemists experimenting with these fundamental materials to help the world and make our lives better? As a host you will gather a group for a live interactive broadcast where you and your attendees will have the opportunity to network with young chemists across the world on social media, participate in discussion and activities, and ask questions live to the

experts regarding the amazing work that is being done in rock and mineral science.

ACS Program-in-a-Box is the easiest event you'll ever host because "it's all in the box." With very little effort (acquire the space and gather the crowd), you can host an energetic science event that engages chemistry students and early career chemists.

**Date:** Tuesday, October 24, 2017

**Time:** 7:00 PM

Register now to receive a physical box of materials and resources delivered directly to you at no cost.\* Sign up at [www.acs.org/PIB](http://www.acs.org/PIB).

## North Jersey Meetings

<http://www.njacs.org>

### **NORTH JERSEY EXECUTIVE COMMITTEE MEETING AND PROJECT SEED POSTER SESSION**

Section officers, councilors, committee chairs, topical group chairs, and section event organizers meet regularly at the Executive Committee Meeting to discuss topics of importance to running the section and representing the membership. Project SEED will hold its poster session and a dinner prior to the September Executive Committee Meeting.

All NJACS members are most welcome to all events. Attendees of the poster session who volunteer to serve as judges receive a free dinner!

**Date:** Monday, September 25, 2017

**Times:** Project SEED Poster Session  
4:00 - 6:00 PM

**Place:** Seton Hall University  
University Center, Main Lounge

**Times:** Dinner follows Poster Session  
Executive Meeting 7:30 - 9:00 PM

**Place:** University Club, Room 201  
Seton Hall University  
400 South Orange Avenue  
South Orange, NJ

**Cost:** Dinner cost of \$35 is payable at the door, no charge for judges of posters and 2017 ACS award winner.

For reservations please call NJACS secretary Bettyann Howson (973) 822-2575 or email [chemphun@gmail.com](mailto:chemphun@gmail.com) or register online at <http://www.njacs.org> prior to **Wednesday, September 20, 2017.**



### **CAREERS IN TRANSITION MEETINGS**

**There will be no Careers in Transition Meetings until further notice.**



### **NJACS PARTNERS WITH STUDENTS2SCIENCE**

North Jersey ACS members are encouraged to support our partners at Students 2 Science (S2S) by volunteering at their S2S East Hanover Technology Center and the S2S Newark Technology Center this fall! Volunteer mentors are needed to work with middle and high school students as they work through laboratory experiments that seek to address real life, contemporary problems in the organization's \$4 million analytical laboratories. Experiments are fun, age-appropriate, and designed to get students excited about a future STEM career.

By volunteering for S2S, you will be supporting students, mostly from underserved communities, and will help the organization to fulfill its mission to inspire, motivate, and educate elementary, middle and high school students to pursue careers in science, technology, engineering and math (STEM subjects). It's an exciting time for S2S as the organization is experiencing unprecedented growth and opening a sister site in Newark this year, which will serve all of Newark Public Schools.

Volunteers are especially needed for the following in-house program: Improving Student Affinity and Aptitude for Careers in STEM (ISAAC) Program. In the ISAAC program, middle and high school students have the opportunity to participate in multiple visits to an S2S Technology Center (East Hanover or Newark). For middle school students, the three major topics covered during the visits are matter, solutions, and separations. For high school students, current programming offers three, day-long experiences designed to introduce the students to careers in pharmaceuticals, organic chemistry, and biotechnology. This is an in-house volunteer opportunity in East Hanover and Newark. You can learn more by visiting the S2S website at [www.students2science.org](http://www.students2science.org).

ACS members who may be in transition, retired, or currently in the industry are especially needed to help S2S inspire the next generation of STEM leaders. You will be instrumental in introducing students to the wonder and discovery of science. To learn more about how you can get involved, contact Cyndi Roberson, Director of Corporate Relations, at (973) 947-4880 ext. 516.

## NJ-ACS MASS SPECTROMETRY DISCUSSION GROUP

### 2017 Symposium, Poster, and Vendor Show

By Kathleen Anderson  
NJ-ACS MSDG Director of  
Communications

The NJ-ACS Mass Spectrometry Discussion Group is pleased to announce the biggest event of our calendar year, the annual Symposium, Poster and Vendor Show which will take place on Tuesday, September 12 at the Holiday Inn Somerset, NJ. Every year this is a great time of networking and learning! Our goal is always to connect outstanding resources: vendors, posters, presentations, and colleagues for an exceptionally valuable time together. With that in mind, this year we are expanding our event to include an exciting workshop session for academics.

The planning for this annual event starts almost a year in advance, and we have been privileged every year to have renowned speakers from the mass spectrometry community. This year is no different. We are very excited and pleased to announce our 2017 Symposium speakers: Professor Scott A. McLuckey, John A.



Prof. Scott A.  
McLuckey

Leighty Distinguished Professor – Analytical Chemistry, Purdue University and Professor Brian Chait, Camille and Henry Dreyfus Professor, The Rockefeller University. Their specific topics will be announced this summer on the [www.NJACS.org](http://www.NJACS.org) website and



Prof. Brian  
Chait

throughout our LinkedIn circulation.

The new workshop details are also well worth noting. Dr. Ben Garcia, Presidential Professor of Biochemistry and Biophysics, Epigenetics Program, Department of Biochemistry and Biophysics - University of Pennsylvania will present "How to Obtain an



Dr. Ben Garcia

Academic Faculty Position and Keep it!". This interactive event will run from 3:30-5:00PM as part of the Symposium. We thank Dr. Garcia for bringing this workshop to us, as it was just recently presented at the USHUPO in March of this year, and received rave reviews! As it is targeted at the next generation of MS scientists and is designed to give information, advice and support to those interested in an academic career, we will be reaching out to MS faculty in our region over the summer regarding this unique opportunity for career guidance.

**Date: Tuesday, September 12, 2017**

Times: 3:00-8:00 PM

Place: Holiday Inn  
Somerset, NJ

If there are any questions regarding this event, please contact Kathleen Anderson at [kmanderson@shimadzu.com](mailto:kmanderson@shimadzu.com). We look forward to another great time together!

**Learn more about  
the North Jersey  
Section at  
[www.NJACS.org](http://www.NJACS.org)**

**NoJ DRUG METABOLISM DISCUSSION GROUP****2017 Fall Symposium and Vendor Exhibition –  
“Mechanistic Framework for Predicting ADME/DDIs in Drug Discovery”****Program**

8:00 AM	Registration / Continental Breakfast / Vendor Exhibit
9:00 AM	Introductory Remarks Manthena Varma, Chair, NJ DMDG
9:10 AM	Systems Pharmacokinetics Approach in Tissue Targeting via Transporters Tristan Maurer, Pfizer, Cambridge, MA.
10:00 AM	TBD
10:45 AM	Vendor Exhibit & Coffee Break
11:30 AM	Rationalizing Complex DDIs and role of metabolites Nina Isoherranen, University of Washington
12:15 PM	Lunch & Vendor Exhibit
1:45 PM	Application of a PK-PD Modeling and Simulation-Based Strategy for Clinical Translation of Antibody-Drug Conjugates Dhaval K Shah, Department of Pharmaceutical Sciences, School of Pharmacy and Pharmaceutical Sciences, University at Buffalo, The State University of New York at Buffalo, Buffalo, New York
2:30 PM	Vendor Exhibit & Coffee Break
3:00 PM	FDA DDI guidance and experiences Lei Zhang, FDA
3:45 PM	Program Closure

**Date: Thursday, October 12, 2017**

Times: 8:00 AM – 3:45 PM

Place: The Palace at Somerset Park

**DR. WILLIAM R. DICHEL IS  
THE WINNER OF THE NORTH  
JERSEY ACS' 2017  
BAEKELAND AWARD**

Dr. Dichtel is the newly established Robert L. Lestsinger Professor of Chemistry at

**Dr. William R. Dichtel**

Northwestern University. His investigation and development of a new class of materials called Covalent Organic Frameworks (COFs) has defined our understanding of new polymerization methods and opened the door to a wide variety of future applications. Dichtel has studied COFs and other porous polymers in the context of conducting polymer/COF hybrids for batteries; porous polymers based on sugar derivatives to purify contaminated water and gas streams; and the functionalization of nano-materials for interfacing 2D materials to biological systems.

The Leo Hendrick Baekeland award was established to recognize and encourage young

scientists to emulate Leo Hendrick Baekeland's innovative and creative spirit. Baekeland awardees are leading research efforts that expand our knowledge of nature and contribute to future technologies that will enhance human lives.

The Baekeland Symposium will be held on **Friday December 8, 2017**. The location and agenda will be announced at a later time.

## NORTH JERSEY CANDIDATES

The nomination committee announced the slate of officers and councilors for the 2018 North Jersey Section ACS election. The electronic ballot will be available September 18, 2017, through October 30, 2017.

### Chair-elect

Amjad Ali (unopposed)

### Secretary

Bettyann Howson (unopposed)

### Councilor (Alternate Councilor)

Alan Cooper  
Jackie Erickson  
Jonathan Ho  
Steve Silverman  
Mohammed Elshaer  
Amanda Mann  
Tomeka Saxon

## Others

## FALL 2017 SEMINAR SERIES AT NJIT

### Dates: Mondays

Time: 2:45 PM

Place: Cullimore Lecture Hall 3  
New Jersey Institute of Technology  
University Heights, Newark, NJ

*First Speaker:* Professor Craig Arnold  
Princeton University,  
MAE and PRISM

**Date: Monday, September 11, 2017**

Seminar schedule:

<http://chemicaleng.njit.edu/news/seminars.php>

For more information contact the seminar coordinator, Dr. Gennady Gor (973) 596-2944, [gor@njit.edu](mailto:gor@njit.edu) <http://chemicaleng.njit.edu/people/gor.php>



## 2017 BLAVATNIK NATIONAL LAUREATE WINNER IN CHEMISTRY: MELANIE S. SANFORD, PhD

Melanie will receive a prize of \$250,000 and will be honored at the 2017 Blavatnik Awards Ceremony at the Museum of Natural History in New York on **Sept. 25, 2017**.

## Building New Molecules to Construct a Better World

One might think of organic chemist Dr. Melanie Sanford as an architect and a builder. Instead of designing and constructing buildings, however, her research team works on building molecules. These molecules have major applications, ranging from carbon dioxide recycling to drug discovery.

Dr. Sanford, who is both a member of the National Academy of Sciences and recipient of a MacArthur "genius grant," has designed molecules that can be used to store energy in batteries, serve as new medical imaging agents, convert carbon dioxide into fuels, or serve as pharmaceuticals to treat disease. The chemical reactions she has developed are widely used throughout the pharmaceutical industry to create new drug candidates, are being studied by chemical companies interested in accessing important chemicals used in farming, and are being utilized to prepare a type of chemical (tracer) that allows doctors to view the heart's sympathetic nervous system through positron emission tomography (PET) scans.

One of the Sanford lab's most exciting recent breakthroughs is in the area of redox flow batteries. These are large-scale batteries that will ultimately be used to store energy from renewable sources such as solar and wind. These huge, long-lasting batteries have many requirements that everyday phone, computer or car batteries do not have, and they need to meet safety and cost standards unlike those of other batteries.



**Melanie S. Sanford, PhD**

2017 Blavatnik National Laureate in Chemistry  
University of Michigan  
Postdoctoral Fellow, Princeton University  
PhD, California Institute of Technology  
BS/MS, Yale University





# ChemExpo 2017

at Liberty Science Center

Saturday, October 21, 2017  
10 a.m. - 2 p.m.

"CHEMISTRY ROCKS!"



Join us for a fun-filled day  
of hands-on science activities presented by area chemists,  
college and high school chemistry teachers and students.

Visit **Liberty Science Center**  
and enjoy this additional family-friendly event for all ages  
included with general admission to the Center.

Coordinated by the  
*North Jersey Section* of the American Chemical Society



AMERICAN CHEMICAL SOCIETY

For further information go to [www.njacs.org](http://www.njacs.org)

or email [mitachaki@gmail.com](mailto:mitachaki@gmail.com); [monicasekharan@njacs.org](mailto:monicasekharan@njacs.org)

See also ACS PROGRAM-IN-A-BOX article  
at bottom of page 12.

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## Call for Nominations

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### **COMMITTEE ON THE HISTORY OF THE NEW YORK SECTION**

Over the past twenty-three years the New York Section has participated in the designation of seven National Historic Chemical Landmarks and four New York Section Historic Chemical Landmarks. A brief description of these National and local section landmarks may be found on the NY Section Home Page at [newyorkacs.org](http://newyorkacs.org) under the Committee on the History of the NY Section. These landmark programs recognize achievements in the chemical sciences and related areas, in order to enhance public appreciation for the contributions of the chemical sciences to modern life.

Please consider making a nomination for an historic chemical landmark. The Committee on the History of the NY Section will consider all nominations. In addition to a particular achievement, an historic library, building or association may be worthy of this distinction.

Please send your nomination, with supporting documentation, to the Chair of the Committee, Dr. Neil Jespersen, at [njaspersn@stjohns.edu](mailto:njaspersn@stjohns.edu)

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## Call for Applications

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### **FREDDIE AND ADA BROWN AWARD**

This Award recognizes and encourages high achieving middle- and high-school students, of African American and Native American heritage, to further develop their academic skills, with views on careers in the chemical sciences.

#### **Award Amounts**

Middle School \$100.00 Check and \$50.00 gift certificate : High School \$200.00 Check and \$100.00 gift certificate.

#### **Who is Eligible**

Middle School students enrolled in a science class : High School students who have completed a chemistry course

#### **Grades**

Middle School B Average or better in Science, B Average overall : High School B Average in Chemistry, B Average overall

#### **Letter of Recommendation**

Math or Science/Chemistry Teachers or Guidance Counselor

#### **Statement**

Middle School "Why I Like Science" : High School "Why I Like Chemistry"

#### **Selection Criteria**

Applicants must be African American (Black) or Native American (including Pacific Islander) or of mixed race.

#### **Transcript**

Official transcript required.

#### **Financial Need**

Not Required.

Applications available on the web:

[www.njacs.org/freddieadabrown](http://www.njacs.org/freddieadabrown)

or from your school guidance office.

#### **Return Application To**

Freddie and Ada Brown Award, NJACS Section Office, 49 Pippens Way, Morristown, NJ 07960

#### **Due Date**

Completed Applications must be post-marked no later than March 31 Annually

Questions: Contact Jeannette Brown [Jebrown@infionline.net](mailto:Jebrown@infionline.net) or (908) 239-1515

## Call for Applications

### OPEN-NJ Scholarship Program Department of Chemistry and Biochemistry



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UNIVERSITY

Receive one of the scholarships (\$10,000/year for 2 or 3 years) to enter one of the following programs at Montclair State University

- *Masters in Pharmaceutical Biochemistry*
- *Masters in Chemistry*
- *Masters in Chemistry with a Concentration in Biochemistry*

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*Summer Research Stipends available for highly qualified students.*

*Information: <https://www.montclair.edu/csam/open-nj/>*

*<https://www.montclair.edu/graduate/news/article.php?ArticleID=16127>*

#### Requirements for Program

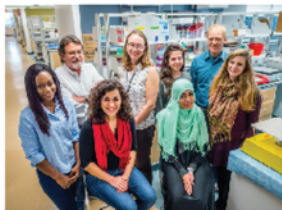
- Minimum overall 3.0 GPA (B.S. or B.A. degree)
- Completed General Chemistry I (with lab), General Chemistry II (with lab), Organic Chemistry I (with lab), Organic Chemistry II, Calculus I and II and a year of Physics.
- US citizen, national, admitted refugee or permanent resident
- Enrolling full time in an MSU Department of Chemistry and Biochemistry M.S. program
- Financial aid eligible as determined by the Office of Financial Aid.
- Committed to participating in all OPEN-NJ meetings including networking events.

#### Apply

Apply to the Graduate Program at Montclair State University (<http://www.montclair.edu/graduate/>) AND email Dr. Nina Goodey ([goodeyn@mail.montclair.edu](mailto:goodeyn@mail.montclair.edu)) to indicate interest in the OPEN-NJ Scholarship Program. The OPEN-NJ Selection Committee will use your graduate school application.

#### Questions?

Please, email Dr. Nina Goodey ([goodeyn@mail.montclair.edu](mailto:goodeyn@mail.montclair.edu)).



## Call for Volunteers

### OPPORTUNITY FOR ACS MEMBERS TO AID STUDENTS 2 SCIENCE IN A HYBRID VIRTUAL LAB PROGRAM

Can you spare a few hours of your time? Do you like working with students and would you like the opportunity to share your science knowledge in a classroom? Students 2Science (S2S) is seeking volunteers to support its V-Lab program. S2S has a series of elementary, middle, and high school experiments that run in various schools across New Jersey. Members are especially needed to mentor students in participating schools to help with experiments. It's great fun, a wonderful way to give back, and only requires 1-2 hours of your time. Experiments include CO<sub>2</sub> to the Rescue, Curious Crystals, Mystery of M&Ms, Thermochemistry: *Exothermic and Endothermic Chemical Reactions*, and *Glow it Up: The Chemistry of Luminol*. All are age-appropriate and volunteers are provided with instructions on how to support in the classroom

prior to your scheduled volunteer day.

For more information, contact Cyndi Roberson, Director of Corporate Relations, at (973) 947-4880 ext. 516 or visit the website to register for the upcoming school year: [www.students2science.org](http://www.students2science.org).



### SEMINAR SPEAKERS WANTED

The New York Section of the ACS is in search of speakers that we can add to our Speakers Bureau database of interested local area speakers who are available for Section-wide seminars and symposia. If you have an area of research or interest that would provide an interesting talk appropriate for our Section members, and would like to be included in our Speakers Bureau, please contact the New York Section Office at (516) 883-7510 or send an email to [njesper1@optonline.net](mailto:njesper1@optonline.net) with the following information that will be posted on the Section's website: your name, affiliation, a title, and 5-6 words briefly summarizing your area of specialty. We look forward to hearing from you about topics that you wish to share with our other members!

## ChemExpo 2017

Saturday, October 21, 2017

### Call for Help

On Saturday October 21st, the North Jersey Section of ACS will be holding its 23rd ChemExpo in celebration of National Chemistry Week at Liberty Science Center, Jersey City, New Jersey. Please help us make a difference!

The theme for this year is "**Chemistry Rocks**". Join us to make this event a fun-filled day of hands-on science chemistry activities that will engage visitors in exploring the positive impacts of chemistry. The activities should be geared for 6 to 12 year olds.

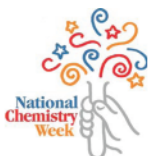
Please register your group at <http://tiny.cc/NJACSchemeXpo>

To minimize duplication of the presentations, please register and provide a list of activities that you/your team would like to present preferably by September 15th, 2017. Individuals contacting us first with their idea(s) will be given priority. We would like the students to be able to redo these experiments at home and/or at school so please be thorough in your presentation and explanations.

Thanks very much for all of your help. The Section is most appreciative of your efforts.

Monica Sekharan - [monicasekharan@njacs.org](mailto:monicasekharan@njacs.org)

Mita Chaki - [mitachaki@gmail.com](mailto:mitachaki@gmail.com)



**ChemExpo 2017**  
**Saturday, October 21, 2017**  
**Call for Sponsorship**

On Saturday October 21st, the North Jersey Section of ACS will be holding its 23rd ChemExpo in celebration of NCW (National Chemistry Week) at Liberty Science Center, Newark, New Jersey. Please help us make a difference! The theme for this year is "**Chemistry Rocks**".

We are looking forward to financial support to help cover many of the expenses associated with the Section's NCW activities. A donation of \$500.00 indicates Gold Sponsorship, a \$250.00 gift indicates Silver Sponsorship and a \$100.00 gift indicates a Bronze Sponsorship. We would appreciate it if you would forward this information to the appropriate representatives within your company.

Checks should be made out to:

"NJACS" (The North Jersey Section of American Chemical Society)  
with a memo of "NCW".

Sent to:

Jacqueline Erickson  
33 Ronald Road  
Lake Hiawatha, NJ, 07034-1121.

Thanks very much for all of your help. The Section is most appreciative of your efforts.

Mita Chaki and Monica Sekharan

Please fill out the information below and return the form to Bobbi Gorman at [rosellerams@yahoo.com](mailto:rosellerams@yahoo.com).

## Sponsorship Form

My company would like to support these efforts at the \_\_\_\_\_ (indicate gold, silver, or bronze) level.

Name of the Company:

The following company/individuals are willing to help defray the costs of these events:

An acknowledgement letter for this contribution should be sent to:  
Name:

Email:

Full address:

**On September 11 Let Us Once  
Again Remember All Those Who  
Lost Their Lives 16 Years Ago  
in the Horrific Attack  
on Our Country.**

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- Companies for laboratory and management positions
- Universities & Colleges for teaching positions and laboratory personnel
- Hospitals for technical and research personnel

There are several web sites that may help you search for these open positions.

- [www.mboservices.net](http://www.mboservices.net)
- <http://newyorkacs.org/jobs.html>
- <http://njacs.org/jobs.html>

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