Even “under new management” there is much to be said for continuity and so I plan to continue my “Great Books in Chemistry” series with another influential work from the early 19th Century by a towering figure in the history of chemistry, namely John Dalton.

Dalton’s biography may be familiar but is always worth repeating. Son of a Quaker weaver and his wife, a woman of strong character, Dalton was born in 1766 in a small village in England’s Lake District in the north west of the country. He attended a village school and was then patronized by Elihu Robinson, a Quaker with interests in science, who instructed him in mathematics. At the age of 12 Dalton began teaching at his former school. When he was 15, along with his brother, he was taken on at a school in a local town, Kendal, where he became acquainted with the blind scientist John Gough who, among other instruction, led Dalton to the study of weather (the Lake District has a lot of weather!) that he maintained throughout his life.

In 1793, on the recommendation of Gough, Dalton was appointed as a teacher of mathematics and science at New College, Manchester, a school for children of dissenters, that is Christians who did not choose to belong to the Established Anglican Church. He remained on the staff of New College for the rest of his life. He also became a member, and later Secretary, of the Manchester Literary and Philosophical Society, and many of his publications appeared in its Journal. For the full account of how Dalton came to develop the atomic theory that bears his name I refer you to “Creations of Fire” by Cathy Cobb and Harold Goldwhite - a lively account of the history of chemistry.

The book “A New System of Chemical Philosophy” by John Dalton was published in 1808. It may be credited with the rapid development of chemical knowledge in the early 19th Century. It is quite a slim volume, but it includes details of most of Dalton’s influential discoveries. It begins with a discussion of heat or caloric (a term widely used at the time). This chapter includes sections on specific heats, and heats of combustion. A curious discussion of the “Natural Zero of Temperature”, or what we term absolute zero, concludes, on very shaky grounds, with a value of greater than 1500 degrees Fahrenheit below room temperature.
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Address advertising correspondence to Advertising Manager. Other correspondence to the Editor.
August Calendar

NEW YORK SECTION

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Board of Directors Meeting
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also

November 19, 2021
Board of Directors Meeting
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NORTH JERSEY SECTION

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Organic Topical Group
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NMR Topical Group
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Advertising in The Indicator

Advertising in The Indicator enables you to reach over 6,200 American Chemical Society members in the New York metropolitan area. It is a great way to promote your business’ goods and services while building brand awareness among a focused group of professionals. In addition, your advertising supports the New York and North Jersey Sections’ educational programs and outreach activities.

Our pages are standard letter size (8½” x 11”) and whole page, half-page, quarter-page and business card insertions are available.

Click here for additional information, including rates and order form. For questions, please contact the Advertising Manager.

NEW YORK AND NORTH JERSEY NAMED CHEMLUMINARY FINALISTS

Congratulations to the North Jersey and New York Local Sections for being named finalists for the following ChemLuminary Awards.

- Best High School Program – North Jersey
- Outstanding Public Outreach Event Organized by a Student Group – New York
- Outstanding Performance Award – Large Size Category – New York

The winners will be announced at a virtual event during National Chemistry Week 2021.
Section officers, councilors, committee chairs, topical group chairs, and section event organizers meet regularly at the Executive Committee Meetings to discuss topics of importance to running the section and representing the membership. The team is scheduling monthly virtual meetings on Monday evenings at 7 – 9 PM (EST). See the table below for the 2021 meeting dates.

All members are welcome to attend these meetings and become more involved in section activities. For any additional information, please contact Mirlinda Biba (NJACS 2021 Chair) at mbiba@njacs.org.

### 2021 ACS North Jersey Local Section Executive Committee Meetings Schedule
(all meetings are virtual)

<table>
<thead>
<tr>
<th>Month</th>
<th>Meeting Date</th>
<th>Time</th>
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<tbody>
<tr>
<td>September</td>
<td>Monday, September 27, 2021</td>
<td>7:00 – 9:00 PM EST</td>
</tr>
<tr>
<td>October</td>
<td>Monday, October 18, 2021</td>
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<tr>
<td>November</td>
<td>Monday, November 15, 2021</td>
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<tr>
<td>December</td>
<td>Monday, December 13, 2021</td>
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### NMR TOPICAL GROUP

The NMR Topical Group is planning/hoping to meet in person on Thursday September 23rd for “Bruker Night” where we will host a speaker or two from Bruker Biospin to present on new developments in instrumentation and methodologies and for the October Symposium on Monday 18th October for a mix of in person and virtual speakers from around the world. Both events are tentatively going to be held at Princeton University pending approval.

### ORGANIC TOPICAL GROUP

The Organic Topical Group presents

**2021 Award for Creativity in Molecular Design and Synthesis Symposium**

honing Prof. Stephen L. Buchwald of the Massachusetts Institute of Technology on November 18, 2021.

**Graduate students and post-docs in organic chemistry are invited to submit an abstract for the poster session.** Abstracts should be < 300 words and include the name, PI, institution and graduate level. Submit abstracts via email to Susan Zultanski. **Deadline September 1, 2021**
2021 NEW YORK SECTION BOARD OF DIRECTORS MEETINGS

MEETING DATES FOR 2021

The dates for the Board of Directors Meetings of the ACS New York Section for 2021 were 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 Bernadette Taylor at btaylor@NewYorkACS.org or by calling the Section office at (732) 770-7324.

Dates of the meetings for 2021 are posted on the New York Section website at https://www.NewYorkACS.org, below, and monthly in The Indicator. Dr. Rita K. Upmacis will chair all the meetings for 2021 which are held online. The board meetings will start at exactly 6:30 PM.

The Board Meeting dates for 2021 are:
Friday, September 10, 2021 Board Meeting
Friday, November 19, 2021 Board Meeting

YOUNGER CHEMISTS COMMITTEE

The New York Section’s Younger Chemists Committee, YCC, invites all chemists under age 35 to their August 5, 2021 Chemistry of Summer virtual event. Meet and network with your colleagues as you dive into the exciting nuances of summer and chemistry, enjoy some fun ice breakers and games, and learn more about the YCC.

Date: August 5, 2021
Time: 6:30 PM
RSVP to Kathlene A. McManus

CHEMISTRY of Summer

YCC (Younger Chemists Committee) is hosting a chemistry of Summer “Virtual” event featuring:
- Summer Chemistry topics
- Games and Prizes
- Networking
- Brief Introduction National YCC

Date: August 5th 2021
Time: 6:30 pm
RSVP to: Kathlene.A.McManus@pepsico.com
STUDENT MEMBERSHIP DRIVE

As part of its efforts to improve its climate with respect to the Diversity, Equity, Inclusion and Respect (DEI&R), the New York Section is inviting its most diverse population – our students – to join the ACS free of charge. Faculty advisors may apply for up to six complementary ACS student memberships to build or strengthen their student chapters.

This program is supported by a DEI&R grant from the ACS Local Section Activities Committee.

Apply here

The Indicator is read by faculty at 42 local colleges/universities that are designated as Minority Serving Institutions.

Looking for a more inclusive and diverse graduate student applicant pool? Advertise in the Fall issues (Sept-Dec) of The Indicator to let these faculty mentors/advisors and their students know what your program has to offer. Click here for a special offer.

DID YOU KNOW?

WORKFORCE or GRAD SCHOOL?

The Indicator is launching a recurring feature designed to help undergraduates as they transition from college into industry or graduate school.

As a primer, we suggest that you review two valuable resources from the ACS:

What’s Next: Graduate School or the Workforce?
Graduate School Reality Check

Next month: Thinking About Graduate School – Five Things to Know
NEW YORK SECTION
OFFICER ELECTION RESULTS

The New York Section 2022 officer election results were announced at the Board of Directors meeting on June 5, 2021.

Chair-Elect for 2022
Mary Virginia Orna

Treasurer for 2022 – 2023
Brian R. Gibney

Directors-at-Large for 2022
Jaclyn Catalano
Ronald D’Amelia
Nadja Grobe

Councilors for 2022-2024
Barbara Hillery
Pamela Kerrigan
Rita Upmacis

Alternate Councilors for 2022-2024
Donald Clarke
Joseph M. Serafin
Ruben Savizky

Alternate Councilors for 2022-2023
Robert P. Nolan
Anne O’Brien

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 all.

OUTSTANDING COLLEGE CHEMISTRY TEACHING AWARDS

The New York Section is seeking nominations for the following three Outstanding College Teaching Awards awards whose purpose is to recognize, encourage and stimulate high-quality teaching and research:

Outstanding Two-Year College Chemistry Teaching Award

Outstanding Four-Year Undergraduate College and University Chemistry Faculty Teaching Award

Outstanding Four-Year University with Graduate School Chemistry Faculty Teaching Award

Nominations are due October 15, 2021. Candidates need not be members of the ACS. Awardees will be recognized with a major award plaque at the Sectionwide Conference in January 2022. Unsuccessful nominations remain active for three years and updating is encouraged. For more information about the award along with a list of former award recipients, please visit the website.

SEMINAR SPEAKERS WANTED

The New York Section wants to add to add you to our Speakers Bureau database of local 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 send an email to Ms. Bernadette Taylor with the following information that will be posted on the Section’s website: your name, affiliation, a seminar 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 your fellow members!
Call for Applications

FREE CERTIFICATE IN CHEMICAL SAFETY AND RISK MANAGEMENT

Students who have completed at least one semester of organic chemistry are encouraged to take an online course Foundations of Chemical Safety and Risk Management for Chemistry Students©. Students who complete the ~15-hour course receive a Certificate of Completion. ACS Membership is not required, but a free ACS ID is.

Read more here

FREE VIRTUAL CONFERENCE

Thieme Chemistry is sponsoring a free virtual conference ‘Breaking Barriers Through Chemistry’ on August 2-6, 2021 to promote collaborations with Mexican scientists from all areas of chemistry.

More info online

EASTERN ANALYTICAL SYMPOSIUM AWARDS

The EAS seeks nominations for its 2022 awards for Outstanding Achievements in, the following:

- the Fields of Analytical Chemistry
- Separation Science
- Magnetic Resonance
- Mass Spectrometry
- and Vibrational Spectroscopy

as well as the for the

EAS Young Investigator Award

NOMINATIONS DUE SEPTEMBER 1, 2021

Learn More

NATIONAL ACS AWARDS

Nominate a peer or colleague for a 2023 ACS National Award. With awards across many technical fields, education, service, industry & more, there is an award for everyone.

NOMINATIONS DUE NOVEMBER 1, 2021

Learn More

ALAN T. WATERMAN AWARD

The National Science Foundation is seeking excellent and diverse nominations of outstanding young researchers.

NOMINATIONS DUE SEPTEMBER 20, 2021

Learn More

Ph.D. STUDENTS AND POSTDOCS from underrepresented groups

A PhD Workshop for Industrial Careers

SEPT. 23, 2021, 1:00–5:00 PM

Apply today for a chance to win $500 and an interview with DuPont!
COMMITTEE ON THE HISTORY OF THE NEW YORK LOCAL 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 website 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.

Councilor’s Caucus

Some Reminders for the Fall Meeting

• Return your Councilor Credential Card by August 4, 2021
• Remember to attend the mock Council Session on August 12, 2021 if you did not attend the July 29, 2021 session
• Attend the District I Caucus • Sunday, August 22, 2021 • 5:00 PM – 6:15 PM via Zoom
• Attend the Council Meeting (agenda) • Wednesday, August 25, 2021 • 11:00 AM via Lumi

Grant Opportunities

MEMBER ENGAGEMENT THROUGH TECHNOLOGY (METT) GRANT AWARDED TO NEW YORK SECTION

An inclusive communications strategy designed to engage the membership of the New York Section is being supported by this METT grant. The New York Section is coordinating delivery of The Indicator with biweekly emails to the membership, social media posts and our redesigned website.

ACS PETROLEUM RESEARCH FUND

Proposals for fundamental research in the petroleum field will be accepted starting on September 20, 2021. DUE OCTOBER 15, 2021 Learn more

SAVE THE DATE

The details of these upcoming grant opportunities will announced soon, so get your proposal ready.

SCIENCE CAFÉ MINIGRANTS DUE OCTOBER 15, 2021

DIVERSITY EQUITY INCUSION AND RESPECT GRANTS DUE OCTOBER 15, 2021

INNOVATIVE PROJECT GRANTS JANUARY 2022

The Indicator is posted to the web 1ST of the month at http://www.theindicator.org/
DR. ALISON BUTLER SELECTED AS THE 2022 WILLIAM H. NICHOLS MEDALIST

The ACS, New York Section is pleased to announce that the Nichols Award Jury has chosen Professor Alison Butler to be the William H. Nichols Medalist for 2022. Professor Butler is Distinguished Professor of Chemistry and Biochemistry at UC Santa Barbara. She is being honored for her pioneering contributions to marine bioinorganic chemistry. The Nichols Medal Award will be presented at the Nichols Award Dinner that follows the Distinguished Symposium in her honor.

Professor Alison Butler was an undergraduate chemistry major at Reed College (BA 1977) and a graduate student in Chemistry at the University of California, San Diego (PhD 1982). Following postdoctoral fellowships in the laboratories of Joan S. Valentine at UCLA and then Harry B. Gray at Caltech, she began her independent career in the Department of Chemistry at UC Santa Barbara in 1986. She progressed through the ranks to her current position of Distinguished Professor of Chemistry and Biochemistry at UC Santa Barbara.

Professor Butler is an elected Fellow of the American Academy of Arts and Sciences (2019), the Royal Society of Chemistry (2019), the American Chemical Society (2012), and the American Association for the Advancement of Science (1997). She has also been recognized with the 2018 ACS Alfred Bader Award in Bioorganic or Bioinorganic Chemistry, a 2019 ACS Cope Scholar Award in organic chemistry, and the 2019 Inorganic Reaction Mechanisms Award of the Royal Society of Chemistry. She has served as President of the Society for Biological Inorganic Chemistry (2012-2014) and Chair of the Chemistry section (Section C) of the American Associate for the Advancement of Science (2012-2013). She is currently Chair of the ACS Division of Inorganic Chemistry.

Further details about the Nichols Symposium for 2022, entitled: Minerals, Microbes, and Metalloenzymes: Inorganic Chemistry at Interfaces will be featured in an upcoming editions of the Indicator and on the New York ACS website.

The Nichols Medal Award was established in 1902 by Dr. William H. Nichols to honor a chemical scientist for outstanding original research and was first awarded in 1903. Dr. Nichols, a charter member of the American Chemical Society and its president in 1918 and 1919, maintained a deep commitment to research and development and to the importance of supporting science education and students of chemistry. Since its inception, through an endowment fund, the New York Section administers the award. It has been perpetuated by the generosity of Dr. Nichols, his family and the Nichols Foundation, Inc. The William H. Nichols Medal is the first award in chemistry of the American Chemical Society.
ALISON HYSLOP, Ph.D. AWARDED NEW YORK ACS’s OUTSTANDING SERVICE AWARD FOR 2021

Associate Dean Alison Hyslop, Ph.D., of St. John’s University has been selected to receive the New York Section’s 2021 Outstanding Service Award. Alison is being honored for her long-standing commitment to the New York Section which has been broadly and deeply impacted most positively by her volunteer efforts. The Outstanding Service Award will be presented at the Sectionwide meeting in January 2022.

Alison Hyslop has served the New York Section of the American Chemical Society in roles as diverse as the co-Chair of the Undergraduate Research Symposium (2005 – 2010) to the Section Chair in 2016. In 2007, she was elected as a Director-at-Large where she learned about all the different ways that the New York Section serves the chemical enterprise in the New York Section geographic area and beyond. From 2016 – 2018, Dr. Hyslop worked with her co-Chair and high school teachers to host Chemagination, the high school science competition. During her year as Chair, the New York Section celebrated its 125th Anniversary and hosted the Middle Atlantic Regional Meeting, MARM2016. That year, the Section highlighted all of the chemistry that the New York Section supported from the Nichols Symposium to the high school awards to the partnerships with the New York Academy of Sciences. In addition to the work done at the local level, Alison was the co-Chair of the 2020 MidAtlantic Regional Meeting, has served the National ACS as a Councilor (2017 to present) representing New York, and is a member of the Membership Affairs Committee.

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NEW YORK ACS MEMBERS HONORED WITH MARM AWARDS

The following members of the New York ACS were honored at the Middle Atlantic Regional Meeting awards ceremony on June 9th for regional awards won in 2020 and 2021:

• E. Emmet Reid Award in Chemistry Teaching at Small Colleges in the Middle Atlantic Region
  2021 Awardee – Prof. Enju Wang, St. John’s University
• Stanley C. Israel Regional Award for Advancing Diversity in the Chemical Sciences
  2021 Awardee – The Brooklyn College Department of Chemistry
  2020 Awardee – Prof. Robert Hoyte, SUNY-Old Westbury
• E. Ann Nalley Regional Award for Volunteer Service to the American Chemical Society
  2021 Awardee – Prof. Patricia Redden (St. Peter’s University)
  2020 Awardee – Prof. Brian R. Gibney (Brooklyn College & The CUNY Graduate Center)

“I am simply delighted to be honored with Pat Redden, my collaborator on Reaching Students with Disabilities, and all my colleagues at Brooklyn College. I am better for what I have learned from them. “

~Brian R. Gibney

Click each photo below for more details
On Thursday May 27th the North Jersey ACS NMR Topical Group hosted Prof. Nikolaos Sgourakis from University of Pennsylvania School of Medicine who called in from Greece to give a fantastic talk on Backbone-independent methyl resonance assignments. In the talk Prof. Sgourakis detailed a new automated method for methyl resonance assignments using 2 samples and 4 total datasets. He showed that using (MA)ILV labeled protein and collecting a 2D HC-HMQC and a short and long mixing time 3D CCH-HMQC NOESY along with a pdb structure of the protein of interest is sufficient for accurate methyl assignments. His method “MAUS” for Methyl Assignment Using Satisfiability describes all assignment possibilities by comparing a structure graph of all expected methyl NOE connectivities in the protein to a set of independent data graphs that contain all possible NOE networks (derived from the 3D data). From the set of all possible assignments consistent with the data, the built in constraint satisfaction solver uses stereospecificity and residue type to further reduce the number of valid assignments to provide unambiguous assignments for >65% of residues and two to three possible options for the remaining fraction. This talk was of great interest to the audience and sparked in depth scientific discussion and potential collaborations.

SAVE THE DATE
The next meeting is being planned for September 23, 2021.
See page 5.
Recently, Dr. Justyna Widera-Kalinowska received on behalf of NY ACS an Innovative Project Grant for the project titled: “Teachers and YCC Future-Teachers Members Collaborative Digital Science Library Project.”

The main goal of this project was to develop a Digital Science Library with virtual laboratory videos. These videos were prepared according to the Next Generation Science Standards and AP Chemistry and/or college chemistry curriculum. This project fostered the collaboration of secondary school teachers, college/university professors and students future-teachers. This IPG provided professional training opportunities for all of the participating in this project parties. It was particularly important for activating under-engaged chemistry professionals and young generation of student-teachers to become ACS members and volunteers. The main lead on this project was taken by Dr. Justyna Widera-Kalinowska (Adelphi University), Dr. Ping Furlan (Merchant Marine Academy) and Dr. Charles Hicks (Nassau Community College).Westbury and Malverne High Schools’ chemistry teachers and students were also involved in this project as well as Adelphi STEP – Science Teacher Education Program graduate students.

This project produced useful digital resources for remote teaching and learning, especially important in time of mandatory distance teaching/learning, when face-to-face and bench chemistry was not possible, however, it will be also very useful in everyday life. It will help to intensify distance learning, help sparking love for chemistry and increase science literacy. As a part of this project, the series of science videos were published to YouTube and linked to NYACS webpage engaging teachers and students, enhancing science learning and promoting chemistry.

Click here to view the Digital Science Library
On July 15, 2021, the New York Section hosted an online discussion of My Remarkable Journey. Participants were provided a copy of the book in advance thanks to the generous funding of the American Chemical Society for a series of events to increase member awareness and understanding of issues in the areas of diversity, equity, inclusion and respect.

The book discussion had 18 participants, who ranged from college students to high school teachers to university deans. The one-hour discussion was followed by a presentation about how to become active in the newly reconstituted Minority Affairs Committee of the New York ACS by Daniel Amarante, email him for more info.

While a vigorous discussion covering a wide area of topics ensued, special emphasis was placed in the following areas. How can barriers to success be identified and removed or minimized? How can we support students and colleagues to ensure they have successful and fulfilling careers? What is the role of a mentor and how can we become more effective mentors? What are essential skills for career success beyond technical proficiencies?
NEW YORK/NEW JERSEY SECTIONS OF THE SOCIETY FOR APPLIED SPECTROSCOPY GOLD MEDAL AWARD

The Society for Applied Spectroscopy is proud to announce its 2021 Gold Medal Awardee, Fran Adar, Ph.D. of HORIBA Scientific. Dr. Adar is being recognized for her pioneering work in the field of Raman microspectroscopy including the development of the LabRAM-IR combined Raman and Fourier-Transform infrared microscope. A symposium (schedule) in her honor will be held at the Eastern Analytical Symposium on Wednesday, November 17, 2021.

More info online

EAS POSTER ABSTRACT SUBMISSION DEADLINE – SEPTEMBER 3, 2021

5 Key Goals for Sustainable Cosmetics in 2022

The New York Society of Cosmetic Chemists provides engaging education and programs for personal care chemists and formulators including this September 21, 2021 meeting. Students may join for free.

More info online

Blavatnik National Award Laureates Announced

The New York Academy of Sciences announced the following 2021 Blavatnik National Award Laureates:

- Mircea Dincă of the Massachusetts Institute of Technology for Chemistry
- Kay M. Tye of the Salk Institute for Biological Sciences for Life Sciences
- Andrea Alù of the City University of New York for Physical Sciences and Engineering

More info online
**Jobs Board**

**Starting your career** or looking for the next challenge? Have a look at New York ACS Jobs Board where employment opportunities are posted.

**First-time job seekers** – looking for tried-and-true advice on finding the career path right for you, don’t miss C&EN’s’ Free 7-step guide.

**HOW TO LAND YOUR FIRST JOB: AN EMAIL GUIDE**

**Have a position you need to fill?** Email the job posting to Jobs@NewYorkACS.org.

**Merck**

Received July 23, 2021  
**Senior Scientist**
Merck is currently seeking an exceptional chemist for a position within the Discovery Chemistry Department located at our Kenilworth, NJ site. The successful candidate will join a multidisciplinary, highly collaborative discovery team and will help invent novel medicines by applying innovative synthetic chemistry, High-Throughput Experimentation, analytical techniques and data analysis to grow our Company’s future pipeline of world-changing therapies.

**Millipore**

Received July 23, 2021  
**Technical Application Scientist (Software Sales)**
The Technical Application Scientist (Software Sales), will be part of the AI-enabled Drug Discovery Software, with a focus on sales and work closely with the Business Lead. A newly formed team responsible for development and commercialization of an exciting and transformational AI-enabled software solutions for small molecule drug discovery.

**TCG GreenChem Inc.**

Received July 20, 2021  
**Research Chemist, Analytical Chemistry**
Design and execute research that supports R&D projects. The research chemist is primarily responsible for performing and managing scientific and technical activities, which may also include responsibility for mentoring technical or lab associates. Demonstrated knowledge of analytical chemistry and fundamental understanding of contemporary analytical technologies and instrumentation.

**SUNY Downstate**

Received July 23, 2021  
**Postdoctoral Research Fellow**
We are seeking applications for a postdoctoral research fellow interested in conducting research on interventions that promote the careers of underrepresented individuals in the biomedical and health disparities research workforce. This fellow would join the research group of Dr. Marcus Lambert, Associate Professor of Epidemiology and Biostatistics in the School of Public Health at SUNY Downstate Health Sciences University (SUNY Downstate).