**Poster Competition Begins September 9**

A multidisciplinary session covering various specialties of the sciences and engineering where research is presented by students and professionals. The poster session is an excellent opportunity to see and discuss some of the outstanding research being done across the country.

**Session Sponsored by:**

- Colgate

**Analytical Division Sponsored by:**

- Pfizer

**Organic Division Sponsored by:**

- AbbVie

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**Pre-Conference**

**Thursday, September 9**

**2:00 PM - 3:00 PM**

**Translating Practice to Scholarship: Understanding Interventions that Broaden Participation in Engineering**

*Dr. Anthony DePass, President, DePass Academic Consulting*

Participants will gain familiarity with methodology relevant to design, implementation and assessment training programs in STEM and Engineering. This will be in the context of understanding the roles of theories, as well as theoretical and conceptual frames in utilizing and generating scholarship for dissemination and grant funding.

**3:00 PM - 4:00 PM**

**Putting Your Best Foot Forward: Strategies for job searching and developing the best CV and resume**

*Dr. James Fells, Associate Principal Scientist in the Computational Structural Chemistry group, Merck & Co.; Dr. Lamont Terrell, Team Leader, Flexible Discovery Unit Medicinal Chemistry Center of Excellence, GSK; Dr. Meghan Woodward, Global Technology Talent Access Strategy Leader, DuPont; Dr. Phil Rathosky, Senior University Relations Specialist, Merck*

This workshop is geared towards students who are interested in an industry position.

Students will learn how to effectively target industry positions.
by highlighting their accomplishments, structuring a winning CV and cover letter, and showcasing their knowledge and experiences. Discussions in the session will cover creating an effective communication strategy that will encompass your attributes and align them with the hiring manager/committee. This workshop will be useful for scientists on the job search now, as well as for those who want to get things in order for future years.

September 10

1:00 PM - 4:00 PM

ACS Day

Speakers TBA

Innovation programs at the National Science Foundation (NSF) advance ideas from the laboratory to the marketplace to strengthen America’s economy, health, and security. The Division of Industrial Innovation and Partnerships (IIP) in the Engineering Directorate leads several programs to translate fundamental research into market solutions. IIP supports and trains researchers with promising technologies, as well as funding high-tech startups. Learn about the NSF's central role in accelerating the growth of the national ecosystem and hear about specific funding opportunities.

September 10

3:00 PM - 4:00 PM

Harnessing Opportunities for International Students and Professionals.

Dr. Fidelis Ndombera, Study Lead Scientist, Greenfield site, Indiana, BioPharm CMC, Covance Laboratories Inc. USA

This session will provide international students with information on how to leverage opportunities (jobs, fellowships, conferences, etc.) during and after grad school to become equipped for their chosen careers.

Sunday, September 12

TBA

NSF Industrial Innovation and Partnerships (IIP) Invention to Impact Keynote

Dr. Diane Hickey, Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Program Director, NSF

Innovation programs at the National Science Foundation (NSF) advance ideas from the laboratory to the marketplace to strengthen America’s economy, health, and security. The Division of Industrial Innovation and Partnerships (IIP) in the Engineering Directorate leads several programs to translate fundamental research into market solutions. IIP supports and trains researchers with promising technologies, as well as funding high-tech startups. Learn about the NSF’s central role in accelerating the growth of the national ecosystem and hear about specific funding opportunities.
Sunday, September 12 and Tuesday, September 14

**2:00 PM - 6:00 PM**

**Resume Roundup**

Looking for a professional review of your resume? Sign up to meet with one of our reviewers from top organizations in our field.

**Appointments available** first come first serve.

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**Tuesday, September 14**

**4:00 PM - 6:00 PM**

**Conversations with the National Science Foundation Chemistry Division**

Dr. Colby Foss, NSF Chemical Structure, Dynamics and Mechanisms - A Program Director; NSF Program Director in the Division of Molecular and Cellular Biosciences in the Directorate for Biological Sciences; Dr. Nora Savage, NSF Program Director for the Nanoscale Interactions Program within the Chemical, Bioengineering, Environmental and Transport Systems Division of the Engineering Directorate

If you are an undergrad/grad/PhD student or faculty member seeking information regarding a fellowship or funding opportunities, please stop by and speak with us. Allow our friendly team of Program Directors to assist you in succeeding!

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**Wednesday, September 15**

**4:15 PM - 5:15 PM**

**Welcome and Conference Kickoff**

Dr. Reña Robinson, Associate Professor of Chemistry, Dorothy J. Wingfield Phillips Chancellor’s Faculty Fellow, Vanderbilt University, NOBCChE President; Dr. Bridgette Shannon, Application Development Engineer, 3M Abrasive Systems Division

Tiyumba, an African drum and dance company, will kick off the celebration of building a Legacy of Resilience and Excellence in Chemistry followed by greetings and remarks by NOBCChE Leadership.

**5:30 PM - 6:30 PM**

**Chemistry, Bourbon, and Careers**

Dr. Emanuel Waddell, Associate Dean, University of Alabama in Huntsville

This session will cover the chemistry of Bourbon and whiskey making. It will also provide an overview of scientific careers in the Whiskey Making Industry.

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**6:30 PM - 7:30 PM**

**Networking Session**

Join your friends and colleagues and network by profession or discipline.
Thursday, September 16

10:00 AM - 12:00 PM

Career Fair: Corporate/Government Expo

The Career Fair provides the landscape to expand your network and learn about professional opportunities including summer undergraduate research programs, MS and PhD graduate programs, fellowships, and career positions in government agencies, industry, and academia.

12:30 PM - 1:30 PM

REU Power Hour

In the REU Power Hour, students will get a brief overview of NSF’s Research Experiences for Undergraduates (REU), and information about where students can find information on what REU programs are available for application. In addition, REU Partners will talk about their REU programs including location, types of research, where information on the opportunity can be found, summer research in academia, etc. Participating partners do not necessarily have a NSF-sponsored REU.

Representatives from the following institutions and programs will present:

- Iowa State University
- Northeastern University, Chemical Engineering Dept. and Chemistry and Chemical Biology Dept.
- NSF Centers for Chemical Innovation
- Princeton University Department of Chemistry
- Stony Brook University, Department of Chemistry
- The Pennsylvania State University
- University of Florida Department of Chemical Engineering
- University of Rochester, Department of Chemistry
- Yale University

1:45 PM - 3:00 PM

Benefits of Graduate School Panel

In the Graduate School Panel, students will get a brief overview of the benefits of graduate school to various career choices (academia, industry, government, and others), and learn more about the pathway of a graduate student. Afterwards, REU Partners participating in the Graduate School Panel will share information about their programs including support for URMs, where students go after graduation, application processes, etc.

Representatives of the following institutions and programs will present:

- Auburn University
- Caltech
- Duke University, Chemistry
- Louisiana State University
- Massachusetts Institute of Technology Department of Chemistry
- New York University
- The Ohio State University
- UMCP
- University of California Irvine
- University of Houston
- University of Pennsylvania
- University of Wisconsin-Madison

Questions for these presenters? Visit the Exhibit Hall to chat with Sponsor and Exhibitor representatives or Schedule your one-on-one appointment!
3:00 PM - 5:00 PM

**Academic Expo**

The Academic Expo provides the landscape to expand your network and learn about professional opportunities including summer undergraduate research programs, MS and PhD graduate programs, fellowships, and career positions in academia.

5:00 PM - 7:00 PM

**Networking Session: Regional Mixer**

Expand your network by connecting with other students and professionals in your region. Compete with your Chapter in our Escape Room Challenge and with your Region in our Trivia Competition. Prizes will be awarded for each competition as well as a door prize for the Chapter with the most participants in attendance.

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**Friday, September 17**

10:00 AM - 11:00 AM

**Master Scientist Series: Winifred Burks-Houck Lecture**

*Dr. Sharon Walker*

Our Master Scientists, the recipients of NOBCChE awards, will be giving presentations on the research that resulted in their recognition by NOBCChE. Join us for this series!

Winifred Burks-Houck Lecture:

Description TBA

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10:00 AM - 5:00 PM

**DuPont GOLD Seminar**

DuPont will be hosting a virtual one-day seminar series and oral presentation competition at the 48th National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCChE) Annual Conference. This collaborative initiative supports DuPont’s commitment to a diverse workforce and is the third installment of DuPont’s GOLD (Growth Opportunities Leading in Diversity) program, a platform intended to expose doctoral and post-
doctoral scientists from underrepresented groups (African American, Hispanic/Latino, and Native American) to the wide range of career opportunities in industrial research at DuPont.

The theme of this year’s GOLD seminar competition at NOBCCChE is “Makers of New: Developing Innovation for Tomorrow”.

1:00 PM - 2:00 PM

State of NOBCCChE

Dr. Simon Shannon, Global Business Development Manager, Advanced Materials Division, 3M

NOBCCChE Town hall to highlight the state of NOBCCChE as an organization, report on major areas in our organization, and especially promote current and upcoming major initiatives.

Concurrent Sessions

Professional Development
2:10 PM - 3:25 PM

Diversity, Equity, and Inclusion: Industry and Academia

Dr. Alveda Williams, Corporate Director of Inclusion and Senior HR Director of Talent Acquisition, DOW;
Dr. Rigoberto Hernandez, Gompf Family Professor, Department of Chemistry, Johns Hopkins University

In this session, attendees will learn about the efforts and approaches to DEI in STEM related fields. Representatives from DOW and Johns Hopkins University will discuss the conscious efforts of DEI at their organizations.

Student Programs
2:10 PM - 3:10 PM

Course Correction: It’s Never Too Late

Dr. Pamlea Brady, Assistant Professor of Chemistry and Department Chair at Talladega College; Dr. Godwin Nwosu, Chemist; Dr. Robert Hammond, Medical Student - Meharry Medical College; Dr. ChaMarra Saner, Associate Professor of Chemistry at Catawba College; Dr. Nicholas Speller, Research Assistant at Georgia Tech Research Institute; Dr. Ansonia Badgett, Scientist at Proctor & Gamble

Have you ever wondered if it is too late to pursue an opportunity? Have you deviated from your original path but still find yourself compelled to pursue your original goals? Did you attempt to accomplish a goal but fell short the first time or find yourself feeling you are too old to achieve a goal? Let’s debunk the myths, because we believe it is never too late to achieve the goals you seek to accomplish. Life may be more complicated now; you may be bit older tomorrow, but that is going to happen anyway so pursue your goals and passions today.

In this session we will discuss the pursuit of higher education and non-traditional paths taken to achieve these goals in a panel format. We may also discuss the pursuit of passions, new ventures and being well rounded.
2:10 PM - 3:25 PM
 Considering a Career in Industry? Female Perspective on What it is Really Like.

Lindsay Jones, Associate Research Scientist, Bristol Myers Squibb; Dr. Andre’ Morgan, Director, Product Development and Implementation & Support Global Technology and Design (GT&D)-Personal Care, Colgate-Palmolive, CO.; Dr. Caroline Blakemore, Principal Scientist, Medicinal Chemistry, Pfizer; Deborah Isabelle, Product Engineering Specialist, Automotive Aftermarket Division, 3M; Dr. Mary Kamande, Technical and Application Development Leader, DuPont Mobility & Materials; La-Tonya Adams, Senior Scientist, Merck & Co.

In this session, women scientists in industry will engage students with a 25 minute panel discussion in an “AMA” (ask me anything) style. Both pre-selected and audience questions will be used to guide the discussion. We will then breakout into small group discussions with the panelists that will be focused on “a day in the life of a female research scientist in industry.” Scientists will discuss their educational backgrounds and career pathways, what they enjoy, and don’t enjoy(!), about their work, and strategies for professional and personal life balance. The session will also touch on being a female in a male-dominated industry, tips and tricks to have your voice heard, and an open question and answer session that will cover any topic.

2:30 PM - 3:15 PM
 Dealing with Micro-Aggression in a Field Where We Weren't Meant to Belong

Dr. Jillian Wendt, Associate Professor of Science Education, University of the District of Columbia; Dr. Carrie Grabam, Founder of COGLAS; Dr. Zakiya Wilson-Kennedy, Assistant Dean for Diversity and Inclusion- College of Science, Research Associate Professor - Chemical Education, LSU

In this panel session we will discuss the pursuit of higher education and non-traditional paths taken to achieve these goals. We may also discuss the pursuit of passions, new ventures and being well rounded.
3:30 PM - 4:45 PM

Jobs in Industry, Academia, and Government Panel

Dr. Malika Jeffries-El, Associate Dean of the Graduate School in Arts and Sciences, Boston University; Dr. Darryl Boyd, Researcher, Optical Sciences Division, Naval Research Laboratory; Dr. James Fells, Sr., Associate Principal Scientist, Computational Structural Chemistry group, Merck & Co.; Dr. Emanuel Waddell, Associate Dean, University of Alabama Huntsville

This session will serve as a direct Q&A session for early career scientists (grad students and postdocs) centered on finding appropriate jobs in various parastatals.

2:30 PM - 3:15 PM

GEM GRAD Lab Symposium - Part I

Dr. Howard Adams, Retired; Dr. Shemita Lee, Assistant Dean and Director for the Office of Recruitment, Diversity, and Inclusion for the Graduate School of Virginia Tech; Dr. Marcus Huggans, National GEM Consortium

Have you ever wondered if it is too late to pursue an opportunity? Have you deviated from your original path but still find yourself compelled to pursue your original goals? Did you attempt to accomplish a goal but fell short the first time or find yourself feeling you are too old to achieve a goal? Let’s debunk the myths, because we believe it is never too late to achieve the goals you seek to accomplish. Life may be more complicated now; you may be a bit older tomorrow, but that is going to happen anyway so pursue your goals and passions today.

The GRAD Lab symposium will focus on providing students a perspective on the benefits of having a graduate degree in engineering or science.

Component 1: Why Graduate School?

Corporate and academic professionals, who hold masters and doctoral degrees in engineering and science and who are from under-represented communities will hold a panel discussion on the benefits of a graduate education. Topics such as financial benefits, expansive career opportunities, information on benefits of a research career, and global competitive trends will be discussed.

Component 2: How to Apply for Graduate School?

This panel session will address these five central questions: Is Graduate School for Me? What is Graduate School like? (What do I expect?) How is Graduate School different from Undergraduate? How do I pay for graduate school given current loans, under-graduate bills, and family economic needs? How do I apply for graduate school?
3:30 PM - 4:30 PM

**GEM GRAD Lab Symposium - Part II**

*Dr. David Ferguson, Graduate student at Indiana University Bloomington; Dr. Gabrielle Jones, Graduate student at University of Michigan*

Component 3: How to Fund Graduate School and the GEM Fellowship program

This section focuses on details of how to finance graduate education through the GEM fellowship program and opportunities within organizations for graduate students through the GEM program.

Component 4: Voices from the field: Real Life Experiences

Professionals from academia, corporate and government agencies will discuss a) their fears as an undergraduate, b) their graduate school experiences, c) their life as compared to colleagues with only an undergraduate degree, d) their work life, day to day experiences, e) their view of their current professional roles, and their career opportunities, f) their salaries, ability to pay off loans, and general quality of life.

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3:30 PM - 4:30 PM

**The Hunt: Searching, Interviewing, and Negotiating in a Pandemic**

*Dr. Robert Garbaccio, Vice President, Head of Discovery Chemistry, Merck & Co.; Dr. Brian Mosby, Assistant Professor of Chemistry, Rollins College; Dr. LaRico Treadwell, R&D Chemist and Material Scientist, Sandia National Laboratories*

Are you currently on the job market? Do you want to learn more about how you can be more successful interviewing in a pandemic? If these things sound interesting to you then join this session. In this session, several panelists will highlight how the hiring process has changed since the pandemic. They will share the best way for students on the market to navigate this new era with greater success. This session will also include a live Q/A.
5:00 PM

**Movie Screening: “The Ball Method” directed by Dagmawi Abebe and Legacy of Black Women in Chemistry Panel**

*To be followed immediately by a networking session*

**Panelists:** Mr. Dagmawi (Dag) Abebe, Film Director; Dr. Reña Robinson, Associate Professor of Chemistry, Dorothy J. Wingfield Phillips Chancellor’s Faculty Fellow, Vanderbilt University, NOBCChE President; Dr. Dorothy Phillips, Director-at-Large, Board of Directors, American Chemical Society

Movie Screening "The Ball Method" - Alice Ball, a 23-year-old African American chemist living in 1915 Hawaii fights against racial and gender barriers to find an effective treatment for leprosy. An almost forgotten true story of African American genius and contribution to world health.

A panel discussion on the Legacy of Black Women in Chemistry will follow the film as well as a networking session.

This session sponsored by:

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**Saturday, September 18**

**10:00 AM - 11:00 AM**

**Master Scientist Series: Percy Julian Lecture**

Our Master Scientists, the recipients of NOBCChE awards, will be giving presentations on the research that resulted in their recognition by NOBCChE. Join us for this series!

**Percy Julian Lecture - Taking the Road Less Traveled: My Path to the Ivory Tower**

*Malika Jeffires-El, Associate Dean of the Graduate School in Arts and Sciences, Boston University*

Description TBA

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**11:15 AM - 1:15 PM**

**Technical Sessions**

Join us to hear your colleagues discuss their recent research in the categories of Analytical Chemistry, Biochemistry, Biophysics, Chemical Biology, Medicinal Chemistry, Computational Chemistry, Physical

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Detailed Agenda

For more information on the individual talks, please view the details sheet for each session.

Organic Division Sponsor:

12:00 PM - 2:00 PM

NOBCChE Regional Leadership Meeting

This is a special session for chapter officers and advisors to discuss aligning on regional expectations, foster collaborations, and engage in membership enhancement opportunities.

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**STEM Activities (Middle and High School Students Only)**

10:00 AM - 11:00 AM

Polymer Science Demos

The Science Bowl team members will participate in a polymer science demonstration and hands-on activities conducted by polymer chemists.

12:00 PM - 1:00 PM

Careers in Chemistry & Chemical Engineering Panel

Speakers TBA

The Science Bowl competition team members will meet with chemistry and chemical engineering professionals to learn about the various career opportunities in these fields.

1:00 PM - 3:00 PM

NOBCChE National Science Bowl

A national science bowl in which middle (Junior Division) and high school (Senior Division) students compete as teams of four to test their knowledge of the fields of physical and life science, engineering, mathematics, and Black history in STEM.
Many of today’s modern medicines are produced in cells. By nature, the production of complex macromolecules in cells has intrinsic variability. This is managed through process controls and comprehensive analytical testing to ensure consistent quality. One analytical test and the subject of this session is the cell-based bioassay, a test of potency. This session will describe the development and use of cell-based bioassays in drug commercialization. The goals of this session are to demonstrate to students how cell biology, molecular biology and statistics come together in the form of a cell-based bioassay for the development of new drugs. The outcome is getting students excited about learning more about STEM and potential careers.
Post Conference Session

Tuesday, November 9

Time TBA

Pfizer Chemistry Connect

A Virtual Symposium for Organic Chemists, Analytical Chemists, and Chemical Engineers.

Our purpose at Pfizer is clear: Achieving breakthroughs that change patients’ lives. We realize that means not just attracting the best and brightest talent, but also ensuring our colleagues can thrive in an environment and culture where we champion diversity and inclusion every day.

The symposium will include:

• Perspectives on careers at Pfizer from our leaders
• Pfizer science presentations and an interactive career panel discussion
• Connection with scientists, engineers, and leaders at Pfizer