

## 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. Prizes will be given to the top posters in each division.

## 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.

## 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

## 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.

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

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

TBD

**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.

---

## Tuesday, September 14

---



4:00 PM

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

*Darren Kimble*

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!

---

## Wednesday, September 15

---

4:30 PM

### **Welcome and Conference Kickoff**

Tiyumba, an African drum and dance company, will kickoff the celebration of building A Legacy of Resilience and Excellence in Chemistry followed by greetings and remarks by NOBCCHE Leadership.

5:30 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.

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.

*1:00 PM - 2:00 PM***REU Power Hour**

Representatives from the following institutions and programs will be providing information regarding their REU programs:

*Auburn University**Caltech**Iowa State University**Massachusetts Institute of Technology Department of Chemistry**New York University**The Ohio State University**University of Florida Department of Chemical Engineering**University of Wisconsin-Madison*

Come to find out which programs interest you and then set up your appointment with those you would like to talk with further in the Exhibit Hall.

*Don't forget to visit the Exhibit Hall to chat with Sponsor and Exhibitor representatives or Schedule your one-on-one appointment!*

*2:00 PM - 3:00 PM***Benefits of Graduate School Panel**

Representatives of the following institutions and programs will present information regarding their graduate programs:

*Duke University Chemistry**Emory University Department of Chemistry**Harvey Mudd College Chemistry**Lehigh University, Dept. of Chemical & Biomolecular Engineering (CbBE)**Louisiana State University**Notre Dame**UMCP**University of Alabama at Birmingham**University of California Irvine**University of Houston**University of Michigan Department of Chemical Engineering**University of Minnesota, Department of Chemical Engineering and Materials Science**University of Pennsylvania*

Questions after hearing their presentations? Be sure to visit them in the exhibit hall or set up an appointment to talk further with them.

*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.

---

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

This session sponsored by:



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 48<sup>th</sup> 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 NOBCChE is "Makers of New: Developing Innovation for Tomorrow".

1:00 PM - 2:00 PM

### State of NOBCChE

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

NOBCChE Town hall to highlight the state of NOBCChE 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.

2:10 PM - 3:30 PM

#### AAAS Science & Technology Policy Fellowship



Science & Technology Policy Fellowships

*Dr. Iris Wagstaff, STEM Program Director, AAAS; Cynthia Bernardez, Program Manager, AAAS, Dr. Tiffani Baylor Lash, Health Scientist Administrator, National Institutes of Biomedical Imaging and Bioengineering (NIBIB); Dr. Wanida Lewis, CEO and Founder, Crescendo Foods; Chloe Poston*

This session will share information about the American Association for the Advancement of Science (AAAS) Science & Technology Policy

### 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.

Fellowship (STPF). STPF is a professional development opportunity for STEM professionals who have completed their PhD and represent all areas of STEM and all sectors (industry, academia, government) to work in Washington, DC at federal agencies to address national science policy issues. STPF staff will share program information regarding the eligibility criteria and the application process. STPF alumni Fellows with chemistry backgrounds will share tips and insights on crafting a competitive application, as well as, share the benefits and impact of the Fellowship on their career trajectories and current roles.

### 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.

### 2:10 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 Graham, 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.

*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 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

*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 Elect; 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.

---

## Saturday, September 18

---

*10:00 AM - 11:00 AM*

### **Master Scientist Series: Percy Julian Lecture**

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

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:

Description TBA

This session sponsored by:



*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 Chemistry, Green Chemistry, STEM Education, Inorganic Chemistry, Materials Science, Nanoscience, Organic, Chemistry and Polymer Chemistry. For details on the individual Technical Talks please view the Technical Session Detailed Agendas.

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

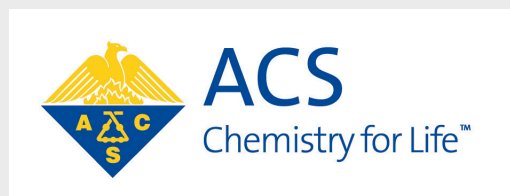
*12:00 PM - 2:00 PM*

### **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.

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

*These Sessions Sponsored by:* 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*

### **NOBCCChE 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.

*Time TBA*

### **Polymer Science Demos**

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

*1:30 PM - 3:00 PM*

### **Teach STEM Students How to Learn: Metacognition is the Key!**

*Dr. Saundra McGuire, Professor Emerita of Chemistry and Director Emerita of the Center for Academic Success, Louisiana State University*

Students come to college with varying academic skills and approaches to learning. Students from minoritized populations have the potential to succeed, but often have not acquired the learning strategies required to excel in STEM courses and research. Many students unnecessarily change majors when they have trouble in introductory STEM courses. This interactive session will focus on the importance of helping students acquire simple and effective learning strategies based on cognitive science. We will engage in reflection activities that allow attendees to experience strategies that can rapidly and significantly improve student success by transforming students' attitudes about the meaning of learning. This session is recommended for Faculty, Academic Mentors, and Administrators.

---

At the conclusion of our sessions we will announce our 2021 NOBCChE Award  
Winners and the 2022 conference.

---