44th ANNUAL CONFERENCE

Oct. 30 - Nov. 3

Minneapolis, MN

WE ARE NOBCChE®
COMMUNITY, LEADERSHIP & PARTNERSHIPS

&

K-12 NOBCChE®
STEM Week
Dear NOBCChE Family & Friends,

It is our pleasure to invite you to attend NOBCChE’s 44th Annual Conference and K-12 STEM Week, October 30 - November 3, 2017, at the Radisson Blu Hotel in Minneapolis, MN. Each year, the National Conference and STEM week activities provide an opportunity for the scientific community to celebrate innovations in STEM while connecting with old friends and colleagues. NOBCChE prides itself in being more than a distinguished scientific organization; We are a COMMUNITY and HOME to many. Ask anyone who has attended a conference or event; it is a family reunion! Our membership is comprised of many of the leaders in the chemical sciences. The annual conference is also a place to spark new scientific and business PARTNERSHIPS. All of that is a part of WHO WE ARE! We hope that you find the workshop and professional development offerings exciting and take the time to check out what the K-12 STEM WEEK has in store. If you are a student, postdoc, or professional submit an abstract! The conference is a chance to share your knowledge with the world! *New this year*, organizations, small groups and individuals interested in conducting a workshop can submit an abstract and proposal for a special session. With that, the theme for the 44th Conference is:

Connect with us on:

@NOBCChE Channel: NOBCChE NOBCChE @NOBCChE_Official
AGENDA AT-A-GLANCE

Monday, October 30
9:00 am – 11:45 am  Student and Professional Development Workshops
12:00 pm – 1:30 pm  Winifred Burks-Houck Award Luncheon
3:00 pm – 5:00 pm  Student and Professional Development Workshops
5:30 pm – 7:30 pm  Elevator Speech Open Mic Student Competition

Tuesday, October 31
9:00 am – 2:00 pm  Career Fair
3:00 pm – 5:00 pm  Professional Development Workshops
5:30 pm – 7:30 pm  ConneXions Student Poster Session

Wednesday, November 1
8:30 am – 11:45 am  Technical Sessions
10:00 am - 2:00 pm  K-12 STEM Week Activities*
12:00 pm – 1:30 pm  Percy Julian Award Luncheon
1:30 pm – 5:45 pm  Technical Sessions
6:00 pm – 8:00 pm  “Chat -n- Chew” Professional Talks

Thursday, November 2
8:00 am - 10:00 am  Henry McBay Award Session
8:30 am – 4:00 pm  Special Workshop Sessions
5:00 pm – 7:00 pm  K-12 STEM Week Science Bowl*
6:30 pm – 8:30 pm  NOBCChE Awards Reception

Friday, November 3
8:00 am – 8:00 pm  K-12 STEM Week Science Bowl*
       K-12 STEM Week Teacher’s Workshop*
       K-12 STEM Week Awards Reception*

*Full K-12 STEM Week schedule can be found on page 20.
When you think of the Twin Cities, think of the colors: the bright feathers of tropical birds at our two zoos, the green grass that canvasses over 9,900 acres of metropolitan parks. Close your eyes and think of the sounds, whether it’s a child’s laughter at Mall of America’s Nickelodeon Universe or the soulful melody of a musical put on by one of the nation’s largest theater districts.

When you think of the Twin Cities, think of the taste and the touch and the smell. Take in a savory meal from one of our acclaimed restaurants, or feel the cool lap of water on your feet from one of the area’s dozens of lakes. Lean in to smell the delicate scent of peonies and herbs from our farmers markets.

Open your eyes, and see yourself here.

The Twin Cities has all that you need, from sports to nightlife to community treasures. Whether you’re looking for big city lights or want to have a quiet evening with family along the Mississippi River, this is the place to be.

We’re the home of Prince, the St. Paul Winter Carnival, the Minnesota State Fair and several Fortune 500 Companies. We have the nation’s oldest sketch comedy theater with the Brave New Workshop, and we have professional sports teams in football, basketball, baseball, hockey and soccer.

Need more convincing? Check out some of our credentials:

- Minneapolis ranks No. 1 in parks with St. Paul coming in at No. 2 (ParkScore, 2016).
- Northeast Minneapolis ranked No. 1 Best Art District in America (10Best, 2015).
- The Twin Cities was No. 5 on the list of America’s Best Food Cities (TIME, 2015).
- Minneapolis was ranked the No. 7 best city for recreation (WalletHub, 2015).
- The Twin Cities was called the best place for millennials (Vox, 2014).

Minneapolis and St. Paul are sister cities; they share a lot of traits, but they each sparkle in their own way. Come explore the Twin Cities for a day or a lifetime, and don’t hesitate if you want any travel ideas. We have years of exploration for you.
HOTEL AND REGISTRATION INFORMATION

The conference will be held at the Radisson Blu hotel in downtown Minneapolis. Members will have the choice of two different hotels to book for their stay.

The Marriott Hotel City Center  
Address: 30 S 7th St, Minneapolis, MN 55402  
Room Rate: $169  
The Radisson Blu Downtown  
Address: 35 S 7th St, Minneapolis, MN 55402  
Room Rate: $169

Click here to reserve your room at the NOBCChE rate!

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*To qualify for the member rate you must be a current member of NOBCChE. To join prior to registering, visit www.nobcche.org.

Please note: If you register at a discounted rate for which you are not eligible, your registration rate will be changed to the Non-Member rate.

➢ Registration is now open click here to register today!
SPONSORSHIP/EXHIBITOR OPPORTUNITIES

The annual NOBCChE conference is a great partnership opportunity for government agencies, corporations, nonprofits and universities looking to connect with tomorrow’s science and technology superstars. Sponsorship opportunities offer year-round partnerships with NOBCChE as well as significant exposure during the conference. A booth in the Career Fair on Tuesday, October 30 provides the opportunity to interact with hundreds of students.

For the last 44 years, the NOBCChE Annual Conference has been the premier meeting place to interact with a diverse pool of high quality students and professionals in chemistry, chemical engineering and other STEM fields. As a result of these interactions, participating organizations have:

✓ Recruited and retained talented scientists and engineers;
✓ Provided internship opportunities for students;
✓ Enlisted students for graduate programs and undergraduate programs;
✓ Presented technical papers on a variety of scientific topics to a diverse audience;
✓ Participated in symposiums featuring a vast array of subjects; and
✓ Show-cased their company or academic institution.

Building on its past success, NOBCChE is undertaking a robust marketing campaign featuring traditional tools (billboards, print, website) and social media (Facebook, Twitter and more) to turn out hundreds of qualified applicants seeking career and graduate school opportunities in STEM-related fields. Come be a part of the NOBCChE conference where we are Connecting STEM Professionals and building our future.
SPECIAL WORKSHOP and SYMPOSIA OPPORTUNITY

*NEW ABSTRACT/PROPOSAL SUBMISSION PROCESS*

The annual NOBCChE conference is an excellent opportunity to share information on a technical or non-technical topic from your company, organization, or small group through a Special Workshop or Symposia Session. Special Workshop and Symposia Sessions provide an additional opportunity for conference attendees to receive professional development and/or information about your organization. In the past, workshops have been offered by National Science Foundation Centers for Chemical Innovation (NSF-CCI) on the topic of How Chemists and Chemical Engineers Collaborate to Innovate and from the American Association for the Advance of Science (AAAS) about AAAS and Science Policy.

New this year is the formalized workshop abstract and proposal submission process. Parties interested in hosting a special session, are encouraged to submit an abstract and workshop proposal for approval. The abstract and proposal is limited to 1000 words and should include detailed information about the workshop as well a list any potential speakers. Abstracts and proposals will be reviewed by the conference planning committee.

Submit your abstract/proposal here. Note that this is the same portal as conference grants and technical posters/talks. You will have the option to denote “Special Workshop Session” in the portal.

Deadline for submission: August 18, 2017. Submitters will be notified of acceptance/rejection by September 25, 2017.
Aligned with this year’s theme, “We Are NOBCChE: Community, Leadership, Partnerships”, the student development sessions are centered around helping new incoming scientists with understanding the importance of fostering and nurturing their growing scientific network. Whether it be understanding professionalism, effective communication, to pursuing advice about securing scholarships/fellowships; the sessions will be geared towards the development of the skills that are beneficial to personal growth. With the help of some of our senior members participating within our sessions, we hope to facilitate a community environment that promotes scientific and personal development.

Session Highlights

"Getting the Most out of the NOBCChE Conference
Skit/presentation that will address professional attire, effective communication, and overall first impressions when networking.

Resume/CV and Cover Letter Review
Opportunity for students to have their resume/CV and cover letter reviewed by volunteers from government, industry, or academia depending on career interest.

Elevator Sessions @NOBCChE
Put your elevator speech to the test! Compete in our Open Mic elevator speech competition.

Summer Research Opportunities and Scholarship/Fellowship Panel
A highlight of summer research opportunities and tips for applying for funding!
The student development committee is committed to helping students and postdocs attend the NOBCChE National Conference.

The Advancing Science Conference Grant (ASCG) offers registration and lodging support to undergraduates, graduate students, and postdoctoral scholars attending the NOBCChE Annual Meeting. As part of the ASCG, recipients participate in various developmental sessions, as well as volunteer at the conference. Preference is given to those that present a poster or talk at the conference. Applications for the Advancing Science Conference Grant are due on August 18th, 2017, by 11:59 Eastern Time. Please direct questions to nobcchestudentprograms@gmail.com.

Click Here to apply for the NOBCChE Advancing Science Conference Grant and/or submit an abstract for Technical Programs. For more on Technical Programs see pages 10 and 11.
Technical Programs is dedicated to bringing an exciting and innovative symposium to our NOBCChE constituents. The goal for this year’s Technical Programs is to showcase our many talented members, create opportunities for future partnerships and collaborations and to enrich the general NOBCChE body overall.

We will bring together students and professionals to participate in exciting technical sessions and symposia which include: ConneXions Poster Session Reception, Eminent Undergraduate Abstract Scholars, Chat and Chew Symposium, Biotechnology Symposium, and Research Pitch “Graduate Competition.”

Once again we will have the two minute Research Pitch competition for senior graduate students. To complement their technical session presentations, participants are given 2 minutes to describe their research in a fun and exciting environment.

Come and partake in the entire technical program, and watch how our world class scientists wow you with their compelling research ideas. We look forward to tremendous participation in our 2017 Technical Programs. Click Here to submit an abstract. Abstract deadlines for Oral or Poster Presentation – August 18, 2017, 11:59 PM EST.
Two Minute Research Pitch: Graduate Student Competition where students are judged on their approach to marketing their research to industry. Participants for this competition are selected based on specific criteria including abstract content, research originality and merit of the research.

“Glow Up”-Eminent Undergraduate Poster Presentations highlight undergraduates with outstanding abstracts and oral communication on their posters. Each student will be given 5 minutes to present their research to a group of their peers and receive real-time questions and feedback from professionals.

Chat-n-Chew: Enjoy an evening of hot research topics. This symposium features innovative talks from government, academia, and industry professionals. Join us as we chat about research and chew while our minds are stimulated by expert researchers.

Click Here submit an abstract for Technical Sessions, the Student or Professional Poster Session or The two minute “Research Pitch” or visit the conference section of www.nobcche.org. Abstract deadlines for an oral or poster presentation – August 18, 2017, 11:59 PM EST.
Workshops held at the 44th annual NOBCChE meeting will cover a vast range of topics pertinent for the successful development of individuals within different areas of STEM. Insight and mechanisms provided by professional experts on aspects during each workshop will highlight the necessary keys for attaining progressive transformation in leadership, establishing and maintaining meaningful partnerships, and restoring community engagement. Encompassing this year's conference theme, “We Are NOBCChE: Community, Leadership, and Partnerships”, the professional development committee primarily aims to design events that will meticulously prepare those transitioning either in their academic career or profession. Newly gained skills from professional development workshops hosted at the conference will be appreciated by fellow graduate students, post-docs, and the early to mid-career professional.
Each year, NOBCChE recognizes and celebrates the diverse achievements of students and professionals at every stage of their career. The mission of NOBCChE is to build an eminent cadre of people of color in Science and Technology. Through our Awards Programs we will celebrate our community of leaders and further NOBCChE’s mission by:

✓ Creating a network of role models who can serve as inspiration to others
✓ Helping Senior Leadership in companies identify exceptional talent
✓ Assisting organizations cultivate engaged employees
✓ Raising the profile of organizations as employers of choice among Women, Racial and Ethnic Minority Groups.

In 2017, NOBCChE will accept applicants/nominations for 7 awards:

Winifred Burks-Houck Undergraduate Leadership Award
Winifred Burks-Houck Graduate Leadership Award
Winifred Burks-Houck Professional Leadership Award

Percy L. Julian Award
Henry C. McBay Outstanding Teacher Award
The Lloyd N. Ferguson Young Scientist Award
The NOBCChE Award in Chemical Engineering

ALL AWARD NOMINATIONS ARE DUE: AUGUST 28, 2017, 11:59 PM EST

All winners will receive their awards throughout the NOBCChE National Conference on October 30 - November 3 and will be invited to attend our Annual Awards Reception on Thursday, November 2, 2017.

For more information on each the awards in each category, see pages 14 – 15.
Winifred Burks Houck Leadership Awards

These awards were created to help inspire future African-American women leaders and recognize their scientific achievements, creativity, leadership and community service.

The Winifred Burks-Houck Undergraduate & Graduate Leadership Awards encourages students to engage in cutting-edge research and innovative activities that broaden participation in the chemical sciences. Eligible applicants are full-time students working toward a degree in chemistry, materials science, polymer science, chemical engineering, materials engineering or related fields. Competitive applicants demonstrate their leadership experience, commitment to community, and potential for success in their chosen field. To apply, submit the following information to nobccheawards@gmail.com (deadline to be announced):

• Resume
• Official Transcript(s)
• One (1) letter of recommendation

The Winifred Burks-Houck Professional Leadership Award recognizes professional women who have upheld Dr. Burks-Houck legacy by demonstrating leadership in a corporate or academic environment and have made significant contributions to science in their community. To apply, submit the following information to nobccheawards@gmail.com (deadline to be announced):

• Complete Curriculum Vitae
• Two (2) reference letters
Winifred Burks Houck Leadership Awards

These awards were created to help inspire future African-American women leaders and recognize their scientific achievements, creativity, leadership and community service.

**Percy L. Julian Award:** Granted for outstanding research in Pure and Applied Science and/or Engineering

**Henry C. McBay Outstanding Teacher Award:** Granted for demonstrating outstanding contributions to education and the mentoring of young scientists

- A nomination letter from the individual or the organization making the nomination. This letter must be a summary of the nominee’s relevant accomplishments with particular attention to the impact of the nominee's contributions on his/her chosen field, evidence of originality and creativity, and probable long-range significance of his/her work.
- Two (2) reference letters from recognized experts in the field from which the committee may make evaluations. These persons must be familiar with the nominee's work.
- Complete curriculum vitae

All selections are made on the basis of significant and quality research and/or teaching as judged by peer experts and the NOBCChE Awards Committee. The deadline for all nominations is August 28, 2017, 11:59 PM EST. Nominations for all awards must be made via email to the NOBCChE Awards Chair at nobccheawards@gmail.com and must include the following information:

**The Lloyd N. Ferguson Young Scientist Award:**
Granted to a young scientist who has demonstrated excellence in scientific research and documented contributions to his/her field

**The NOBCChE Award in Chemical Engineering:**
Granted to a Chemical Engineering Professional who has demonstrated excellence in the field
K-12 NOBCChE STEM Week aims to provide an activity-filled week for all K-12 students participating in the Science Bowl and Science Fair as well as local residents in and around the Minneapolis metropolitan area. Programming will include college panels, scholarship workshops, and coaching for new and novice Science Bowl coaches. Visit the website www.nobcchestemwkd.com for registration details and more.

STEM Festival: An open festival for K-12 students interested in hands-on activities and STEM groups. Demos provided by non-profits, universities and private-sectors.

Science Fair: Individual students present original science projects that are judged by scientists and graduate students in the chemical sciences.

College Fair: High school students will interact with exhibitors focused specifically on undergraduate programming.

Teacher's Workshop: This day-long workshop will provide training courses for new and veteran teachers. Registration required.

Science Bowl: Teams of 4 compete at the junior or senior level against other teams to answer a variety of chemistry-related questions.
NOBCChE is *Inspiring the next generation* through our 2017 K-12 Science Competitions. The program is available at on [www.nobccheSTEMwkd.com](http://www.nobccheSTEMwkd.com).

STEM Festival presentations are invited by scientists, science centers, planetariums, science museums, college student, educators or organization that offer STEM outreach. Elementary, middle school, and high school students, parents, and the general public are invited to explore science and learn about local STEM resources in the community and across the country through hands-on activities and demonstrations.
The NOBCChE Science Bowl was initiated in 1989, and middle school and high school students compete in teams of four. Challenge competition questions are based on an overall understanding of physical sciences (physics & chemistry), life sciences, earth sciences, engineering, mathematics, as well as Black scientists and inventors. Students compete in Junior (5th – 8th grades) and Senior (9th - 12th grades) divisions. Last year, we had over 20 teams from across 7 states compete. Participants within a team do not have to be from the same school. In fact, students who are home-schooled can also participate.
The Science Fair is a poster competition in which students present an independently completed research project. Each contestant in the Science Fair must demonstrate their ability to conduct a research project by: 1) Submitting an abstract of 150 words or less on an individual research project in one of the following four categories: physical sciences, math & engineering, consumer science, or biological sciences; 2) Presenting the results of the research in a poster format, including answering questions from judges; and 3) submitting a written report during the poster presentation. Posters are judged by STEM professionals and subject matter experts.

We’ve also expanded programming for the STEM Weekend to expose K-12 participants to subjects related to College:

- College Student Panel
- College Fair and Recruitment Event
- Scholarship Info Session
# STEM WEEK AGENDA

**Tuesday, October 31, 2017**
- 1:00 pm – 5:00 pm Registration
- 5:00 pm – 7:00 pm Volunteer Training
- 6:00 pm – 7:30 pm STEM Week Ice Breaker
- 6:00 pm – 7:00 pm Science Bowl Coach’s Orientation

**Wednesday, November 1, 2017**
- 8:00 am – 5:00 pm Registration
- 8:00 am – 9:30 pm Kick-Off Breakfast
- 10:00 am – 12:00 pm Science Fair
- 11:00 am – 2:00 pm STEM Festival & College Fair
- 3:00 pm – 5:00 pm Volunteer Training

**Thursday, November 2, 2017**
- 8:00 am – 5:00 pm Registration
- 10:00 am – 11:00 am College Scholarship Info Session
- 2:00 – 3:00 pm College Student Panel
- 5:00 – 8:00 pm Science Bowl

**Friday, November 3, 2017**
- 8:00 am – 12:00 pm Registration
- 8:00 am – 12:00 pm Teacher’s Workshop Pt 1
- 10:00 am – 12:00 pm Science Bowl
- 12:00 pm – 4:00 pm Bowl Championship Rounds
- 1:00 pm – 5:00 pm Teacher’s Workshop Pt 2
- 6:00 pm – 8:00 pm Awards Dinner

Registration is on a first-come, first serve basis at [www.nobccheSTEMwkd.com](http://www.nobccheSTEMwkd.com)