

The TarHelium



Volume 46, Issue 4

April 2016

In This Issue:

A Letter from the Chair P1

NC-ACS Awards and Recognitions

Tony J. Williams is the NC-ACS Distinguished Lecturer for 2016 P2

Melinda Box is the 2016 NC-ACS Marcus Hobbs recipient P3

ACS Awards and Recognitions of Local Colleagues

NCSU Student Timothy Chen has won a Bayer Scholarship through Project SEED P4

ACS Cellulose and Renewable Materials Division has selected Dr. Lucian Lucia and Dr. Paul Gatenholm 2016 Division Fellows P4

Gates Cambridge Scholarship Awarded to Cat Newman P5

Maria Gallardo-Williams and Thomas C. Freeman Win Teaching Awards P5

Sasha Ormond Reports on her Experience at the ACS Leadership Institute P6

NC-ACS Events and Networking Opportunities!

TSMDG NCACS plans to organize event on April 15, 2016 P7

NCACS Young Chemists and Senior Chemists Band Together for Networking Series P7

2016 Triangle Chromatography Symposium and Instrument Exhibit P8

Senior Chemists organizing a tour of the Videri Chocolate Factory P9

NC-ACS night out at the Durham Bulls on June, 9, 2016 P9

More Professional Association and Networking Opportunities!

SciREN offers workshop P10

NC Science Festival presentation: Science on the Campaign Trail P10

Volunteer Opportunities

NCACS needs volunteers for Triangle SciTech Expo! P11

Call for Coordinators: Outreach Event Organizers P11

NC-ACS has a variety of activities for which volunteers are needed! P13

A letter from the Chair, April 2016

Dear Colleagues,

Each spring, the excellence of local chemists is traditionally recognized through the announcement of award winners, and I highlight a few of these here. The NC-ACS local section will give the 2016 Marcus Hobbs Award to Melinda Box (NCSU) for her distinguished service and leadership of our online presence for more than a decade as webmaster for several websites. The local section is also pleased to announce that Tony Williams (EPA) has been selected as the 2016 NC-ACS distinguished speaker, and he will give the keynote seminar at the annual section meeting in the Fall. Please join me in congratulating Melinda and Tony for their contributions!

Our fabulous students win so many fellowships and awards that it is impossible to list them all here, so I call your attention to just a couple of these: undergraduate student Cat Newman (Duke) has received the highly competitive Gates Cambridge Scholarship, an international award, and Timothy Chen (NCSU) has received a Bayer Scholarship through ACS's project SEED program. I also want to highlight that excellence, innovation, and dedication in the teaching of undergraduates has led to university-level awards for chemistry faculty members Maria Gallardo-Williams (NCSU) and Thomas Freeman (UNC).

A profile of Marcus Hobbs, for whom the Hobbs award is named, can be found in this issue as well. Thanks to Maurice Bursery for his ongoing effort to research and profile the prominent chemists who have lived and worked in NC during our section's history.

Our local section hosts engaging events every month, and April is no exception. Highlights this month include the "Science on the Campaign Trail" event in RTP, the Senior Chemists Committee tour of the Videri chocolate factory in Raleigh, the soft matter discussion group's dinner and engaging seminar series in Chapel Hill, and the SciTech Expo outreach event at the NC Museum of Science.

Are you interested in becoming more active in the NC ACS local section? Please do not hesitate to register for any of the periodic "call for volunteers." In addition, all members are welcome to attend and learn more about the local section governance and opportunities for participation at our executive committee meetings. Upcoming meetings will be at 4:30 pm on Wednesday, May 4th and Wednesday, June 1st at the First Flight Venture Center in RTP. Thank you for your membership in the local section, and I hope to see you at an event soon.

With warm regards,

Dorian A. Canelas

2016 Chair, NC section of the ACS

NC-ACS Councilors Report P13

The Chemical Society of Washington and the American Chemical Society Office of Public Affairs are seeking speakers P16

NC-ACS History

Ernest Eliel to be Honored with Symposium at ACS National Meeting in Philadelphia P17

Marcus Edwin Hobbs, a founder of the Research Triangle Park P18

NC-ACS is on Facebook & Linked In P19**Connect to Triangle Area Science Cafés and Pints of Science! P20****Education List Serves!!!! P21****NC-ACS Local Section Executive Committee Meetings P22****NC-ACS Local Section Executive Committee P23**

The *TarHelium* is a publication of The North Carolina Section of the American Chemical Society (NCACS)
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TarHelium Editor

The *TarHelium* is published 4 times a year. The news-letter can be viewed at <http://ncacs.sites.acs.org/tarheliumnewsletter.htm>.

The views expressed herein are not necessarily those of the Section.

Articles, Announcements, Advertisements and other Content may be sent to Jamie Saunders for consideration. Please use the email address: jamie@saundersgraphics.com
 The phone number is 919 545-9581.

**NC-ACS Awards and Recognitions****Tony J. Williams is the NC-ACS Distinguished Lecturer for 2016**

Antony (Tony) J. Williams received his BSc in 1985 from the University of Liverpool (UK) and PhD in 1988 from the University of London (UK). His PhD research interests were in studying the effects of high pressure on molecular motions within lubricant related systems using Nuclear Magnetic Resonance. He moved to Ottawa, Canada to work for the National Research Council performing fundamental research on the electron paramagnetic resonance of radicals trapped in single crystals. Following his postdoctoral position he became the NMR Facility Manager for Ottawa University where he attempted to become proficient in building walk-up spectroscopy systems, French, and skating the Rideau Canal (at which he failed).



Tony J. Williams

Tony joined the Eastman Kodak Company in Rochester, New York as their NMR Technology Leader. He led the laboratory to develop quality control across multiple spectroscopy labs and helped establish walk-up laboratories providing NMR, LC-MS and other forms of spectroscopy to hundreds of chemists across multiple sites. This included the delivery of spectroscopic data to the desktop, automated processing and his initial interests in computer-assisted structure elucidation (CASE) systems. He also worked with a team to develop the world's first web-based LIMS system, WIMS, capable of allowing chemical structure searching and spectral display.

With his developing cheminformatic skills and passion for data management he left corporate America to join a small start-up company working out of Toronto, Canada. He joined ACD/Labs as their NMR Product Manager and performed various roles, including Chief Science Officer, during his 10 years with the company. During his tenure at ACD/Labs he managed over 50 products at one time and developed a product management team as well as managed sales, marketing, technical support and technical services. ACD/Labs was one of Canada's Fast 50 Tech Companies, and Forbes Fast 500 companies in 2001. His primary passion during his tenure with ACD/Labs was the continued adoption of web-based technologies and developing automated structure verification and elucidation platforms. While at ACD/Labs he suggested the possibility of developing a public resource for chemists attempting to integrate internet available chemical data. He finally pursued this vision with some close friends as a hobby project in the evenings and the result was the ChemSpider database (www.chemspider.com).

After a frantic few years of travel, sometimes logging >250,000 miles a year, Tony became a stay at home dad for two years to his adopted twin sons. During that period he consulted with a number of cheminformatics companies and continued to work on the development of ChemSpider as a public resource. Even while running out of a basement on hand built servers the website developed a large community following that eventually culminated in the acquisition of the website by the Royal Society of Chemistry (RSC) based in

Cambridge, United Kingdom. Tony joined the organization, together with some of the other ChemSpider team, and became their Vice President of Strategic Development.

At RSC he continued to develop cheminformatics tools, specifically ChemSpider, and was the technical lead for the chemistry aspects of the Open PHACTS project (<http://www.openphacts.org>), a project focused on the delivery of open data, open source and open systems to support the pharmaceutical sciences. He was also the technical lead for the UK National Chemical Database Service (<http://cds.rsc.org/>) and the RSC lead for the PharmaSea project (<http://www.pharma-sea.eu/>) attempting to identify novel natural products from the ocean.

He left RSC in 2015 to become a Computational Chemist in the National Center of Computational Toxicology at the Environmental Protection Agency where he is bringing his skills to bear working with a team on the delivery of a new software architecture for the management and delivery of data, algorithms and visualization tools. The "Chemistry Dashboard" was released on April 1st, no fooling, at <https://comptox.epa.gov>, and provides access to over 700,000 chemicals, experimental and predicted properties and a developing link network to support the environmental sciences.

Tony remains passionate about computer-assisted structure elucidation and verification approaches and continues to publish in this area. He is also passionate about teaching scientists to benefit from the developing array of social networking tools for scientists and is known as the ChemConnector on the networks. Over the years he has had adjunct roles at a number of institutions and presently enjoys working with scientists at both UNC Chapel Hill and NC State University. He is widely published with over 170 papers and book chapters and was the recipient of the Jim Gray Award for eScience in 2012 (https://blogs.msdn.microsoft.com/msr_er/2012/10/10/2012-jim-gray-award-honors-antony-john-williams/).

Dr. Williams will deliver a lecture at the 129th Local Section Meeting in the fall and will also receive a monetary award and a plaque.

<http://ncacs.sites.acs.org/History/Distinguished%20Speakers%20Award/index.html>

Paige Presler-Jur
pjur@rti.org

Melinda Box is the 2016 NC-ACS Marcus Hobbs recipient.

Melinda has championed the online presence of the NC-ACS as our webmaster since 2005. During this time she has overhauled and revamped the website multiple times including reorganization, improving the aesthetic, and changing site providers. Melinda took a major role in programming the site's user friendly features including forms processing for event volunteer signups, the employment announcement board to support local section members, and the NC-ACS event photo albums to allow member contributions and viewing of activities. Melinda is currently working with the Education Committee to help design a webpage on the NCS-ACS site that will be useful for committee members and the K-12 community at large. In addition to redesign and improvements, Melinda is always responsive to event and general announcement postings, which often require immediate posting. Melinda has worked in Chemical Education for over 20 years and is currently a member of the North Carolina State University Chemistry department where she serves as the Organic Chemistry Lab Supervisor. The NC-ACS commends and thanks Melinda Box with the Marcus Hobbs award for her significant, longstanding service to our local section.



Melinda Box

Submitted by Paige Presler-Jur

ACS Awards and Recognitions of Local Colleagues

NCSU Student Timothy Chen has won a Bayer Scholarship through Project SEED

The ACS Magazine C&EN has announced that “Timothy Chen graduated from Green Hope High School, in Cary, N.C. Under the mentorship of Melissa Pasquinelli and North Carolina State University, in Raleigh, Chen conducted research titled “Predicting the Mechanism of Endocrine Disruption for Firemaster 550 with Virtual Screening (Two Year Study).” Chen is attending North Carolina State University. He is majoring in engineering.

Submitted by Al Tonelli



Timothy Chen

The American Chemical Society (ACS) Cellulose and Renewable Materials Division (CELL Division) has selected Dr. Lucian Lucia and Dr. Paul Gatenholm as the Division's 2016 Division Fellows.

Established in 1983, the Cellulose and Renewable Materials Division Fellow Award recognizes Division members' dedication, leadership, and enthusiastic service to the CELL Division. Honoring their contributions to the CELL Division, Dr. Lucia and Dr. Gatenholm will receive individual plaques at the Division Awards Banquet on March 15, 2016 during the 251st American Chemical Society National Meeting and Exposition in San Diego, California.

Dr. Lucia is currently one of the CELL Division Councilors and has served as Division Chair and Secretary in the past. In 2015, he successfully led the effort to raise US\$35,000 to establish the Division's KINGFA Young Investigator Award. He has organized or co-organized 14 CELL Division Symposia in ACS meetings including co-organizer for two Anselme Payen Award Symposia and two ACS Awards for Affordable Green Chemistry Symposia. Dr. Lucia has received three ACS Innovative Grant Proposal (IGP) grants. The first was used to fund the Conversion of Biomass to Biomaterials and Bioenergy symposium at the 2011 Southeastern Regional Meeting of the ACS, in Richmond, VA. A second grant was obtained in partnership with the Girl Scouts of America to educate children in the chemistry of cellulose and food safety. The third IGP grant was obtained in collaboration with North Carolina State University to fund an outreach project targeting middle school children to teach them how wood and plants can provide the building blocks for basic chemicals.



Lucian Lucia

Dr. Lucian Lucia is an Associate Professor at North Carolina State University where he has equal responsibility for teaching and research. He has been recognized with faculty appointments at universities in China, South Africa and Brazil. His research is based around the chemistries and technologies for converting biomass to biochemical and biomaterials with an aim for implementation. Dr. Lucia has over 180 publications to his credit and he is an Editor of BioResources.

Gates Cambridge Scholarship Awarded to Cat Newman

Catherine “Cat” Newman has earned a Gates Cambridge Scholarship, a prestigious international award.

Cat will graduate from Duke University this May with a major in chemistry and a minor in biology. While at Duke, she conducted undergraduate research on the structure and function of MepR, a *Staphylococcus aureus* multidrug binding transcription factor, under the guidance of Dr. Richard Brennan. She will begin her graduate work with a one-year Master’s degree program in biochemistry at Cambridge this Fall, and ultimately she plans to pursue an MD/PhD. Cat is from Mebane, North Carolina.



Catherine Newman

More information can be found online:

<https://www.gatescambridge.org/news/new-us-scholars-selected-gates-cambridge-scholarship>

<https://www.gatescambridge.org/members-area/connect/directory/scholar/9192>

Chemists’ Win Teaching Awards

In March, **Prof. Maria Gallardo-Williams** was announced as the winner of North Carolina State University’s 2016 Gertrude Cox Award. The award, which recognizes faculty who integrate technology into their teaching practice in an innovative and effective way, will be presented by the Provost at a ceremony this month. Prof. Gallardo-Williams engaged undergraduates in the creation of organic chemistry instructional videos. She has been teaching organic chemistry and directing the organic chemistry labs and NCSU since 2002.



Maria Gallardo-Williams



Thomas C. Freeman

Prof. Thomas C. Freeman has been honored with a University of North Carolina at Chapel Hill’s 2016 Student Undergraduate Teaching Award. This award, voted upon by a committee comprised entirely of students, will be presented to Prof. Freeman at the Chancellor’s awards ceremony this month. By earning this university-level award, he is being recognized for excellence in the teaching of undergraduate chemistry courses.

Sasha Ormond Reports on her Experience at the ACS Leadership Institute

I attended the ACS Leadership Institute (LI) on January 22-24, 2016, held at the InterContinental Dallas Hotel in Dallas, Texas. That weekend was also the weekend of North Carolina's 'first 2016 snow storm' and I ended up missing all of the weather! Before leaving for the LI, the attendees were asked to watch [ACS and You](#), an interactive tutorial about the Society. Once at the LI, attendees were separated to follow different tracks: Division Leaders, Local Section Leaders, New Committee Chairs, and Student/Younger Chemist Leaders. I selected the Local Section Leaders track where I attended the Local Section Sessions. In these sessions, we were assigned to work with nearby local sections, and our North Carolina section sat at the table with the Eastern North Carolina section and the South Carolina section. One of our workshops was "Planning Successful Activities" and through this workshop we were able to gather ideas and introduce other sections to our activities such as the NC State Fair. The Eastern North Carolina section expressed interest in participating at the State Fair and we will continue communicating with that section to identify their involvement with the event. The other workshops I attended were "Funding" and "Communication with Your Members." The Funding workshop provided further insight on what type of opportunities are available to bring money to the local section. Communication with Your Members was an informative session on how local sections can communicate with members and keep abreast of what's going on in the Society.



Sasha Ormond

My Saturday sessions consisted of two four-hour workshops: "Engaging and Motivating Volunteers" and "Strategic Planning." In the morning workshop, Engaging and Motivating Volunteers, I worked with four other ACS members, whom I've never met before. We discussed the volunteer involvement process, which is very important for me since I organize a booth at the NC State Fair. My greatest takeaway from this workshop was the volunteer motivation factors and that different people view and value volunteering differently. I also learned about key recognition variables and gathered ideas on how to recognize the services of the different types of volunteers. In the afternoon Strategic Planning workshop, we envisioned a hypothetical scenario and developed a strategic plan for the scenario. What I found as the most important part of the workshop was setting goal statements and evaluating them using SMART: Specific, Measurable, Achievable, Relevant (Realistic), and Timely. We left the workshop with planning worksheets that we can implement in our local section using the step-by-step guidelines.

Sunday morning was used to wrap up the weekend and motivate the leaders to stay actively involved in ACS. More information on the LI can be found at:

<http://www.acs.org/content/acs/en/membership-and-networks/ls/leadersinstitute.html> or
<http://www.acs.org/content/acs/en/membership-and-networks/acs/getinvolved.html>.

Editors Note:

It was reported in the January TarHelium ([V46 I3](#)) that Dr. Sasha Ormond was selected for the YCC Leadership Development Award!

NC-ACS Events and Networking Opportunities!

The Triangle Soft Matter Discussion Group (TSMDG) of the North Carolina American Chemical Society section plans to organize another event on April 15, 2016.

The meeting will be held again at Mediterranean Deli, 410 W Franklin Street in Chapel Hill, 6:00 PM.

1) The dinner will be covered fully by the organizers, i.e., no cost for you.

2) We will feature two engaging speakers: Professor Alexander Grosberg from NYU

(<http://physics.as.nyu.edu/object/AlexanderGrosberg.html> and Professor Patrick Charbonneau from Duke U

(<http://chem.duke.edu/labs/charbonneau>). Professor Grosberg will discuss the topic of protein folding protein folding & evolution with wooden and plastic toys. Professor Charbonneau will provide a soft matter perspective on protein assembly (virus capsids, amyloids, crystals, etc.). These are both important topics of current soft matter research involving biomacromolecules. We hope you will find them interesting and stimulating.

We are contacting you to get an initial assessment about how many people plan to attend this exciting event. We will follow up with a more detailed description of the "scientific festivities" soon. Please respond to Jan Genzer (jgenzer@ncsu.edu) if you plan to attend.

We hope to see on April 15, 2016!

Steve Craig

Michael Rubinstein

Jan Genzer

NCACS Young Chemists and Senior Chemists Band Together for Networking Series

The North Carolina Section of the ACS recently initiated a Networking Event Series between the Young Chemists Committee and Senior Chemists Committee, intended to help Young Chemists to expand their network and to introduce them to seasoned veteran chemists in their professional field. The program is supported by an Innovative Project Grant from the American Chemical Society Local Section Activities Committee (LSAC) and is designed to run through the rest of 2016.

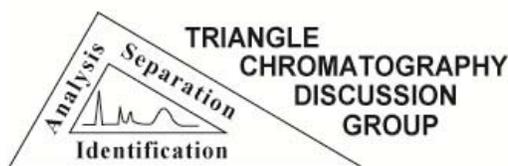
The Kickoff event was held on Feb. 18 at the World of Beer in Cary and was designed as a Speed Networking Event, which provided a brief networking opportunity between all of the senior chemists who attended and the younger chemists who signed up. The participants practiced their elevator speeches and learned more about the senior chemists and their experiences in the professional world. There was a heavy representation by industrial representatives, and the younger chemists enjoyed the fast pace of the event and the opportunity to get to know so many new individuals in their field. The event lasted into the night, with a free networking period in between periods of speed networking. This was the first event of its kind for the local section, but there will surely be more events like it in the future.

The second event in the series was an open networking event held at Serena's Gastropub in RTP, where about 30 senior chemists and younger chemists joined to network and learn from each other over chips and dip and a beverage or two. The event was an enjoyable evening, with many stories shared and business cards exchanged. One participant noted that he wanted to see more of these events, because there were real opportunities for younger chemists to meet people in the professional world and for the senior chemists to put people to work.

More events are planned in this series, with a target date of May, so keep an eye on the NCACS listserv for additional information as the events are planned!

Submitted by James Harrington

mhtorringjan@yahoo.com



Mark Thursday, May 12 on your 2016 calendar!
for the
2016 Triangle Chromatography Symposium and Instrument Exhibit

Sponsored by the Triangle Chromatography Discussion Group
and the North Carolina Section of the American Chemical Society

Thursday, May 12, 2016
at the McKimmon Conference and Training Center ([1101 Gorman Street](#))
North Carolina State University
Raleigh, North Carolina

A Symposium of 4 invited speakers covering a wide range of topics of interest to practicing chromatographers in all fields of endeavor. Also included are exhibitor seminars.

See the TCDG or McKimmon website for Registration and for more event details:

[2016 Attendee Registration](#) or www.TCDG.org

Registration fee includes seminar attendance and lunch. Exhibitor-only attendance is FREE. On-site Registration is available the day of the event. Attendees may win a prize drawing!

INVITED SPEAKERS

Dr. Christa Colyer, Ph.D., Wake Forest University
Topic: CE- Capillary Electrophoresis

Steve Guptill, M.S., Supervising Scientist with the Duke Energy
"Analytical Needs and Challenges of the Power Industry"

Dr. Nadja Cech, Ph.D., University of North Carolina at Greensboro
Topic: Natural Products

Tamara Keller, B.S., DEA Consultant
"Forensic Drug Analysis; The Puzzle Isn't Always Easy"

Final Call for Posters – Student posters (4' × 8") are solicited for any aspect of chromatography, its application, and ancillary areas. DEADLINE for submission of an abstract ≤ 150 words is April 22, 2016 (e-mail to Poster Chair). Cash prizes will be awarded for the best posters submitted by students and meeting submission requirements. [See www.tcdg.org Symposium page for details.]

Senior Chemists Committee is organizing a tour of the Videri Chocolate Factory

What: The Senior Chemists Committee is organizing a tour of the Videri Chocolate Factory, Raleigh's local gourmet chocolate factory, where we will be able to follow the preparation of chocolate from the beans to the final product with a scientific emphasis. I had the pleasure of meeting and listening to Sam Ratto, the chocolate maker and co-CEO, at a recent Valentine's Day dinner featuring Videri chocolate as part of all courses. I can attest that Sam is very passionate about his work and company.

Videri can handle a group up to about 30 participants. So, please let me know (ktomer@mindspring.com) if you (and spouse or significant other) plan on attending (first responses, first on the list).

When: The tour will start at 9:00 AM, Thursday April 21. There will be coffee and pastries available for purchase at 8:00 AM.

Where: Videri Chocolate Factory (viderichocolatefactory.com)

327 W. Davie Street, Sweet 100

Raleigh, NC 27601

(This is across the street from the Pit Authentic Barbecue restaurant)

Parking is available on-site.

Ken Tomer, co-Chair, ktomer@mindspring.com

Brad Kosiba, co-Chair

Senior Chemists Committee,

North Carolina Section, American Chemical Society

Please mark your calendars for the NC-ACS night out at the Durham Bulls on June, 9, 2016!

Game Date: 6/9/2016

Game Time: 7:05 PM

Opponent: Norfolk Tides

Tickets will be \$15/Person and includes a **Picnic Dinner!**

More information to follow in April including EventBrite registration.



More Professional Association and Networking Opportunities!

The Scientific Research and Education Network ([SciREN](#)) is an outreach and networking group that facilitates collaboration between K-12 educators and research scientists, including grad students, post-docs, and faculty. SciREN helps scientists (individuals or groups) create curriculum-centered lesson plans based on their research and then organizes networking events where scientists present their lesson plans to educators. Educators use these lessons in the classroom, and scientists often participate in teaching the lessons they create. This is an excellent way to conduct outreach and impact the community through an established, graduate student-led organization.



SciREN has reached over 2,000 K-12 students from 42 counties in North Carolina. 97% of educators say that SciREN helped them learn about current STEM research and obtain usable lesson plans, while 100% of researchers have said they will participate in future SciREN events. The SciREN Portal - where educators can download lesson plans and contact the researchers who wrote them - has 99 lesson plans freely available.

We'll be holding an optional lesson plan workshop on Saturday, August 27, 2016 from 1:00-5:00pm that will provide instruction on how to effectively develop a lesson plan that matches aspects of North Carolina science curricula. Lesson plans can include multimedia, hands-on activities, lab experiments, or other resources. This workshop is a great way to develop a great lesson plan in just a few hours. Although workshop attendance is strongly encouraged, resources will be available to help scientists who cannot attend the workshop.

The SciREN Triangle and Educator Open House will be held the evening of Friday, September 9, 2016 from 5:30-9:00pm at the North Carolina Museum of Natural Sciences in Raleigh. At the fair, scientists will present their lesson plans to teachers, and teachers will discuss how to incorporate the lessons into their classes.

Submitted by Melissa Pasquinelli

NC Science Festival presentation: Science on the Campaign Trail

Join us on Wednesday, April 13 at the RTP Frontier building for a lively public roundtable on science, politics and reporting in this age of real-time fact-checking. Light refreshments start at 6pm. The event will start at 7 pm.

Full details here: http://www.ncsciencefestival.org/2016_event/campaign-trail/

Guest speakers:

- Eugene Kiely, executive director, FactCheck.org
- Bill Adair, Pulitzer Prize-winning creator of Politifact; Sanford School of Public Policy, Duke University
- Laura Leslie, Capital Bureau chief, WRAL
- Sheril Kirshenbaum, executive director, ScienceDebate.org

Moderated by Susan King, Dean, UNC School of Media and Journalism

Presented in partnership with NC News Cooperative and Science Communicators of North Carolina (SCONC)

Food trucks and beer service available!

Submitted by Melissa Pasquinelli on behalf of the Carolina Science Cafe

Volunteer Opportunities

The North Carolina Section of the ACS needs volunteers for its booth at the Triangle SciTech Expo!

The Expo is part of the North Carolina Science Festival, a statewide celebration of science and engineering (<http://www.ncsciencefestival.org/>) in April. The event will be held at the North Carolina Museum of Natural Science in downtown Raleigh on Saturday, April 23rd, 2016 and will run from 9 am - 5 pm.



NCACS will be at the event, where we'll provide activities themed around "The Chemistry of Life," or the chemistry that happens every day in the world around us. We are seeking volunteers to perform demonstrations for visitors during the day. There will be three shifts, a morning, a lunch, and an afternoon shift, but the shift times are flexible (and lunch will be provided to volunteers working 2 or more shifts).

Why should I volunteer?

- The event averages over 6000 attendees, making it a great opportunity for us to help to get people excited about science and chemistry!
- The event is also a good chance to learn about an area of science that you may not have used recently.
- The event is supported by professionals from a range of companies in the Triangle, making it a great networking opportunity in many areas.

If you are interested in taking part in the activity, please fill out the Volunteer Response Form at: <http://goo.gl/forms/6QM7mpNJAv>.

If you have any questions about the SciTech Expo or other NCACS outreach, please contact Elizabeth Hecht at e.s.hecht@gmail.com or Sam Cui at xic@novozymes.com. We're looking forward to seeing you!

James M. Harrington
Outreach Coordinator
North Carolina Section of the American Chemical Society
<http://ncacs.sites.acs.org/>

Call for Coordinators: Outreach Event Organizers

Call for Coordinators: Outreach Event Organizers

The North Carolina Section of the American Chemical Society is looking for coordinators for a number of upcoming outreach opportunities! Details of each event are provided below:

2016 Festival for the Eno River, July 2 and 4th 2016, 10 AM – 6 PM

NCACS will hold a booth at the Festival for the Eno for the fifth year in 2016! The festival is an annual celebration of the river and its ecosystem, held at West Point on the Eno Park in Durham. This year's festival will be held on July 2nd and 4th, from 10 am to 6 pm each day. Previous presentations have focused on climate science, sustainable energy, environmental chemistry, and kitchen chemistry. The booth is a free-flowing presentation where visitors will cycle through at their leisure during the day.

NCACS is seeking one Co-coordinator to help to organize this year's efforts. The festival serves as an important outreach activity for the local section during the summer months that allows us to speak to the role of chemistry in addressing large scale environmental problems. The Co-coordinator will work with the previous coordinators to organize the volunteers' schedules, plan activities, purchase supplies, and organize the efforts on the ground at the event.

2016 National Chemistry Week, October 22-29 2016

NCACS annually holds an event to commemorate National Chemistry Week, which happens at the end of October. NCW is an annual celebration of the role that Chemistry plays in our everyday life, and a time to share our love of chemistry with the public. The Section is currently seeking one to two volunteers to organize the 2016 event, the theme of which is "Solving Mysteries Through Chemistry: The Chemistry of Forensics." Traditional activities have included an outreach activity around the date of National Chemistry Week, an Illustrated Poem Competition, and a YouTube video Competition called "ChemTube."

We are seeking an energetic, enthusiastic individual who is interested in organizing the outreach activity for the 2016 National Chemistry Week. The venue, design, and activities can be set by the coordinator and are supported by a budget provided by the section. The coordinator will work closely with the executive committee and the previous NCW coordinator to recruit volunteers, schedule and design the activity, and coordinate the activities on the day of the event.

2016 La Fiesta del Pueblo, September 2016

NCACS is planning to return to La Fiesta del Pueblo in 2016 to share our love of chemistry with a diverse community from across the state. La Fiesta is a celebration of Hispanic community and culture held in downtown Raleigh each September. Previous presentations have included interactive demonstrations of the states of matter and chemistry in your kitchen. The booth is a free-flowing presentation where visitors will cycle through at their leisure during the day.

NCACS is seeking one co-coordinator to work with the previous coordinator to organize this effort, which is a high-visibility outreach activity that recognizes the importance of diversity in the region and allows us to share the chemistry in everyone's lives. The co-coordinator will work with the previous coordinator to organize volunteer schedules, plan activities, purchase supplies, and organize the efforts on the day of the event. Spanish fluency is not necessary, but is very helpful.

Why you should volunteer:

- Leadership development opportunity
- Get experience managing a budget
- Opportunity to educate the public on the importance of chemistry in their lives
- Connect with professionals and other members of ACS

Outreach activities are integral to the local section's public relations and help to get the word out about what you do for a living! If you are interested in assisting to coordinate these activities, please contact James Harrington, Outreach Coordinator at:

mhtorringjan@yahoo.com or 336-508-6692

Become an active part of the NC-ACS Professional Community!

NC-ACS has a variety of activities for which volunteers are needed! If you have interest in volunteering for any of these opportunities, please contact the NC-ACS Inbox, at ncamchemsoc@gmail.com, or attend an upcoming Executive Committee meeting (first Wednesday of the month at 4:30 pm at First Flight Venture Center in RTP):

We are looking for people to serve as reporters for our TarHelium newsletter. A reporter will assist the editor in generating new content for the TarHelium, which means submitting news items happening in the region that could be of interest, and/or generating new content.

Are you a social media guru, or would like to gain experience in using social media for marketing? We are seeking volunteers to foster NC-ACS's presence on social media: Facebook, LinkedIN, Twitter, etc.

Project SEED has about 20-25 boxes of old student files in the chem dept at NC State that need to be sorted. There are 3 things that eventually need to happen with the data in these files: 1) shred tax/confidential data, 2) scan the rest so that we just have an electronic copy of it, and 3) data entry of that data into our database.

New project initiatives: A potential new project that is being considered is centered around developing Wikipedia entries for chemical scientists and landmarks in our region. Or do you have your own idea that you'd like to implement?

Our Discussion Groups and Committees can always utilize more volunteers for planning and hosting activities! Our Education committee is particularly in need of more volunteers.

Submitted by Dorian A. Canelas

NC-ACS Councilors Report

Report on Council Meeting and related Activities at the March 2016 National Meeting of the American Chemical Society in San Diego

Jim Chao, Al Crumbliss, Laura Sremaniak, Melissa Pasquinelli, and Sasha Ormand

Council Action:

- Council voted to nominate the following as candidates for 2017 President-Elect
 - Peter K. Dorhout – Kansas State University
 - Thomas R. Gilbert – Northeastern University
- The two unselected candidates were C. Bradley Moore and Gregory H. Robinson.
- Final Candidates for Directors of our District II and Directors-at-Large for 2017-2019 were:
 - District II: George M. Bodner, Christina C. Bodurow, Ruth Ann Woodall and Isai T. Urasa
 - Directors at Large: Joseph A. Heppert, Kristin M. Omberg, Dorothy J. Phillips, and Kathleen M. Schulz
- Council voted to raise the dues for ACS membership by \$4.00 to \$166 for full 1-yr membership. This still puts ACS below the median of comparable professional society membership dues which ranges from American Society for Biology and Molecular Biology (\$140 for 2016) to American Association for Clinical Chemistry (\$227 for 2016). We should also note that an increasing number of our members are students, who pay a discounted membership fee, thus placing an additional dues burden on full paying members.

Presidential Succession and Board of Directors Reports:

President Nelson is focusing on unemployment, diversity and organic chemistry education. There will be Presidential Symposia for 1.) Jobs, 2.) Fracking, and 3.) Public perception of science and scientists at the fall meeting in Philadelphia.

There will also be a special symposium in Philadelphia honoring Ernest Eliel, organized by Diane Grob Schmidt which was made possible by the recent overtures that President Obama has made to the Cuban government. The ACS followed up with a historic meeting between ACS's Diane (Past ACS President) and the Cuban Chemical Society (QUIMICUBA) in October 2015. A session was organized that honors the legacy on Ernest Eliel (Former Chair of Board and ACS President), which will be a Presidential Event

UNC- Chapel Hill is certain to prepare in-depth information about the life of Dr. Ernest Eliel, once Chair of the Section and President of the ACS who emigrated from Cuba.

- There is a newly endowed ACS award in spectroscopy.
- The board voted to allow ACS Fellows awards to be rescinded.
- The new open access journal Omega will begin publishing articles this summer.
- The AACT now has 3300 members and around 80% are K12 teachers. AACT will hold a summit conference with the Biennial Conference on Chemical Education in Denver this summer.
- Chemidp.org is the website for career planning for graduate students.

Council Discussion:

ACS President Donna Nelson has charged a Task Force to find answers to the questions below.

- What are the factors, which determine the balance between supply and demand?
- What is the employment situation for technicians?
- What are the benefits and handicaps of possible certification, licensing and registration of chemical professionals?
- Do we prepare our graduates for the jobs offered by industry?
- What are the opportunities to help young graduates and mid-career chemical professionals find employment?
- Are minorities adequately represented in the chemical work force? What is needed to get them in the pipeline, if they are not?
- What are the global factors influencing the employment situation for chemical professionals in the United States? Specifically, what has been the effect of outsourcing and immigration?

These questions were discussed on the floor of the Council Meeting. Should members want to make their voices heard on any of these issues they may do so by going to acs.org.

Committee on Patents and Related Matters:

(Jim Chao and Joon Cho)

The Committee on Patents and Related Matters is working with Office of Government Affairs to issue an ACS policy statement on the importance of chemical research and the protection of intellectual property rights to stimulate innovation in the United States. They have been working closely with the USPTO at addressing improvements to the patent system, in particular focusing on Quality. The patent office has seen a substantial reduction in the pending backlog.

During the Legislative discussions, there were several recent developments that are proving to be troublesome for the chemical enterprise. One is that the number of new patent applications is falling and it is not known what all of the causes may be. Some suggest that the difficulty of patenting biotechnology applications is having an effect, others think it may be due cuts in Corporate Central Research, and others that it is a product of less competition due to mergers and acquisitions. Also disturbing is that since 2015, the number of applications attributed to foreign inventors is now the majority.

Other items which are disturbing is that it has proven difficult for the ACS which now produces at least four journals that are only offered on-line to receive registered copyright protection, since a hardcopy is not available. A solution to this relies on action by the US Copyright Office which has many other problems.

A related problem is that ACS will now be more vigilant about forbidding unauthorized copying or reproducing of the content of the papers and posters at its meetings.

Senior Chemists Committee:

(Jim Chao)

The Senior Chemists Committee (SCC) is reconsidering the age of eligibility for its members. The current age is automatically sent to all ACS members 50+ years of age. Discussions about 55 and 60 years were also made. Currently, the Senior Chemists Newsletter is the most read publication of any group as determined by the number of opened emails with the Newsletter attachment.

The Speed Networking Event held in conjunction with the Career Jobs Fair folks was another success with undergraduates and grad students meeting with senior chemists and other volunteers from Industry, Government, and Academia. The time per table was reduced to 12 minutes in order to accommodate the many students seeking advice.

The Senior Chemists Committee, in conjunction with the ACS Development Office, again held a sold-out breakfast event on Tuesday, with Keynote speaker Dr. Margaret Leinen, Director of the nearby Scripps Institution of Oceanography and Dean and Vice Chancellor of the School of Marine Sciences, University of California – San Diego. Her talk on “Our Changing Oceans: The Challenges from Climate Change” was well received and presented the facts on the changes in the ocean over the past 50+ years including the CO₂, the pH, and the rising temperature at deep depths that all correlate with man’s industrial revolution. She left us with optimism that the recent Global Warming Meeting this last year suggests that for the first time, more nations are looking long term at the costs and problems associated with unabated Global warming.

The Committee for Environmental Improvement:

(Melissa Pasquinelli is a member and Secretary)

The committee sponsors grants for local programming focused on sustainability, which can include speakers, workshops, Science Cafes, community events, and educational programs. More information is available at: <http://www.acs.org/getinvolved>. They also have an award for incorporating sustainability into Chemical Education, due 29 August 2016: <http://www.acs.org/content/acs/en/about/governance/committees/cei/sustainability-in-the-curriculum.html>. Other ACS resources focused on sustainability can be found at <http://www.acs.org/sustainability>

Women Chemists Committee

(Laura Sremaniak)

The 2nd edition of the book “Mom, the Chemistry Professor” is underway.

Our awards task force is working to raise awareness of the problem of the few women nominated for national, technical awards. Nominations have hovered around 11-13% for the past 5 years. This past year, 16% of award winners were women, so there is not an issue with selection bias, but rather a paucity of women being nominated in the pool. Women represent 26% of the membership of the ACS.

We awarded 10 women as Rising Stars and held an all-day symposium on Monday. We also hosted a poster session and honored 10 winners of the WCC/Eli Lilly travel award.

ACS Events

The Chemical Society of Washington and the American Chemical Society Office of Public Affairs are seeking speakers to discuss emerging developments in the chemical sciences for a U.S. Patent & Trademark Office (USPTO) Technology Fair taking place on July 12-13, 2016.

The requested topics are following, but the USPTO is open to other topics.

Suggested TC 1700 Patent Examiner Technical Training Topics

- Analytical and Immunological Chemical Testing
- Battery and Fuel Cell Technology
- Flow batteries
- Recent advances
 - Catalysts and Catalysis
- Advances in catalysts used in refining operations and petrochemical
 - Chemicals used in the “fracking” industry
 - Computer control of process industries
 - Coating Technology
- CVD, ALD, Sputtering and other thin film techniques
 - Electrochemical Sensors
 - Electrolytic cells
 - Electrolytic chemical reactions
 - Electrophoresis and Electrochromatography
 - Fertilizer Technology
 - Filter materials or compositions
 - Fuels
 - Lubricants
 - Mass spectrometry
 - Membrane technology
 - Nanomaterials Overview, e.g. current state of the art, new directions in the industry
 - Photochemical and Electrochemical reactions and methods
- Reduction of carbon dioxide to carbon-containing fuels
 - Photolithography
 - Photovoltaics
- Tandem cells on silicon
- New materials for transparent conducting electrodes
- CIS/CIGS cells
- Photovoltaic fibers and fabrics
 - Polymers
- Polymers used in fuel and lubricant formulations
 - Quantum Dots and their Applications
 - Spin-Seebeck/Inverse Spin-Hall Effect Devices
 - Sputtering
 - Thermoelectric Technology
- New TE Materials
- TE Fibers and fabrics
 - 3D Printing of Metals or Plastics
 - Water and Waste Liquid Purification including Sewage and Hazardous or Toxic Wastes

Location: Speakers may give their presentations from the USPTO headquarters in Alexandria, Virginia just outside of Washington DC, or via webcast. There is no preference for in-person vs. remote presentations, and the USPTO can accommodate either option.

Length: Presentations typically are an hour, although seminars can run longer or shorter, depending on the speaker's preferences and topic area.

Audience: The audience for the seminars is patent examiners working in technologies related to the topic. Talks should be aimed at a level suitable for 1st year graduate students.

Speech content: Typical talks spend a portion of the talk reviewing the state of the art and the development of the technology up to this point, to give some context to the audience, followed by a portion in which the speaker discusses some recent developments.

The speaker should avoid talking about any particular application that has been submitted to the USPTO. Speakers will be asked to fill out a Conflict of Interest form.

Contact: For further information, please contact Caroline Trupp Gil (c_truppgil@acs.org or 202-872-4098) or Keri Moss Stearns (K_MossStearns@acs.org or 202-872-4618), of the ACS Office of Public Affairs.

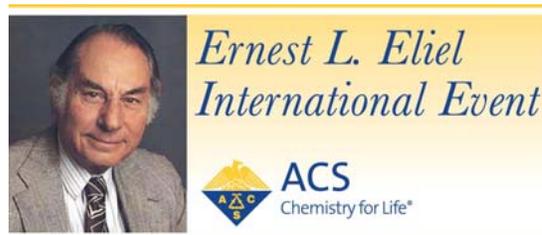
Submitted by Joonhyung Cho

NCACS History

Ernest Eliel to be Honored with Symposium at ACS National Meeting in Philadelphia

Ernest Eliel, a former Councilor of NC-ACS, was a W.R. Kenan Jr. Professor of Chemistry at University of North Carolina - Chapel Hill, starting in 1972, and he passed away in Chapel Hill in 2008. An autobiography on his life and work can be found on the National Academy of Sciences website,

<http://www.nasonline.org/publications/biographical-memoirs/memoir-pdfs/eliel-ernest.pdf>



and another nice biography in the TarHelium vol. 39 Issue 2:

http://ncacs.sites.acs.org/TarHelium/v39/39_2/39_2.html#eliel.

Ernest Eliel to be Honored with Symposium at ACS National Meeting in Philadelphia

The symposium is co-organized by Immediate Past President Dr. Diane Grob Schmidt and Dr. Cynthia Maryanoff of the ACS Division of Organic Chemistry in collaboration with the ACS International Activities Committee.

Connectivity and the Global Reach of Chemistry: Honoring the Life and Scientific Contributions of Ernest L. Eliel, will feature academic speakers from Cuba, Japan, Mexico and the United States, honoring the legacy of Professor Eliel and reporting on their current chemistry. The idea for this symposium developed in Havana, Cuba during a meeting of Dr. Schmidt with representatives of the Cuban Chemical Society last October. Professor Eliel, having studied in Cuba, represents a bridge between our two countries as relations begin to thaw. This historic symposium honors a pioneering chemist, former ACS President, and former Chair of our Board of Directors.

NCACS History

Marcus Edwin Hobbs, a founder of the Research Triangle Park

by Maurice Bursey

No doubt you have seen many articles in the TarHelium in connection with the North Carolina Section's award for outstanding service, the Marcus E. Hobbs Award. Older members will know who he was, but newer members must not have a clue about him.

Marcus Hobbs was born in Chadbourn, North Carolina, on August 11, 1909, the second son of Julius C. and Maude Player Hobbs. He grew up in the area around Wilmington, North Carolina. Once he matriculated as a freshman at Duke University, he earned his undergraduate, masters, and doctoral degrees there, and in 1936 was appointed to the chemistry department faculty. He was chairman of the chemistry department from 1951, dean of the Graduate School of Arts and Sciences, dean of the University, vice provost, and finally provost.

During the period when he was dean, Governor Luther Hodges appointed him as a member of the committee that led to the founding of the Research Triangle Park. In that role he was responsible for producing an inventory of scientific research being carried out at the three major triangle universities, a document that proved to be three inches thick. In turn, this document was used to create a brochure for economic development recruiters to give to American research-oriented companies to entice them to locate in the Park. (In the 1950s, the idea of moving a research facility to North Carolina was so unthinkable to firms in the northeast that the interviewers laughed at the recruiters!)

The first tenant in the Research Triangle Park was the Research Triangle Institute, now RTI International. Soon after I arrived in 1966, I made the acquaintance of David Rosenthal, my RTI counterpart in the mass spectrometry facility there, before RTI moved to the Park. The facility was then housed in a temporary corrugated metal building on Bacon Street in downtown Durham, and remained there for several years, until it moved into buildings on its RTP campus. Chemstrand and IBM also built and staffed research centers in the Park, and after them our recruiters no longer had to endure laughter.

Marcus Hobbs was a charter member of RTI's board of governors and twice chairman of its executive committee. He played a major role in the creation of the Office of Ordnance Research in 1951, which became the Army Research Office (Durham), and served as its acting chief scientist. He led the team that persuaded Sigma Xi to relocate to the Research Triangle Park. He served as president of the Rotary Club of Durham and as a director of Blue Cross and Blue Shield of North Carolina. His honors include the Archie K. Davis Award of the Research Triangle Foundation and the Army's Outstanding Civilian Service Medal. He was a fellow of the AAAS and a member of the AAUP, Phi Beta Kappa, Sigma Xi, Phi Lambda Upsilon, and other societies. Close to his retirement, he was named University Distinguished Service Professor by Duke University and Distinguished Governor Emeritus by the Research Triangle Institute. There is also a Marcus E. Hobbs Distinguished Professorship in the Duke Nursing School.

Marcus's involvement with the North Carolina Section of the ACS was long, distinguished, and constant. He chaired the Section in 1946 and served as one of its Councilors for decades afterwards. When our service award was named for him in recognition of his iconic leadership role in the Section, we made sure that he was its first recipient in 1988.

Marcus Hobbs passed away in Durham on August 12, 2007. A memorial service was held for him in Duke Chapel on September 9, and an enormous crowd of scientists, administrators, and many others whose lives he touched paid their respect to him there.

I admit to borrowing heavily from Professor Hobbs's obituary in Duke Today for August 17, 2007, and from an appreciation of him in Sigma Xi Today for September/October 2004. An overall picture of the history and then-current status can also be gained from an online summary of a presentation made by his colleague in the founding of the Research Triangle Park, William F. Little, on March 6, 2008. But here is a story about Marcus and me that no one has ever written down before.



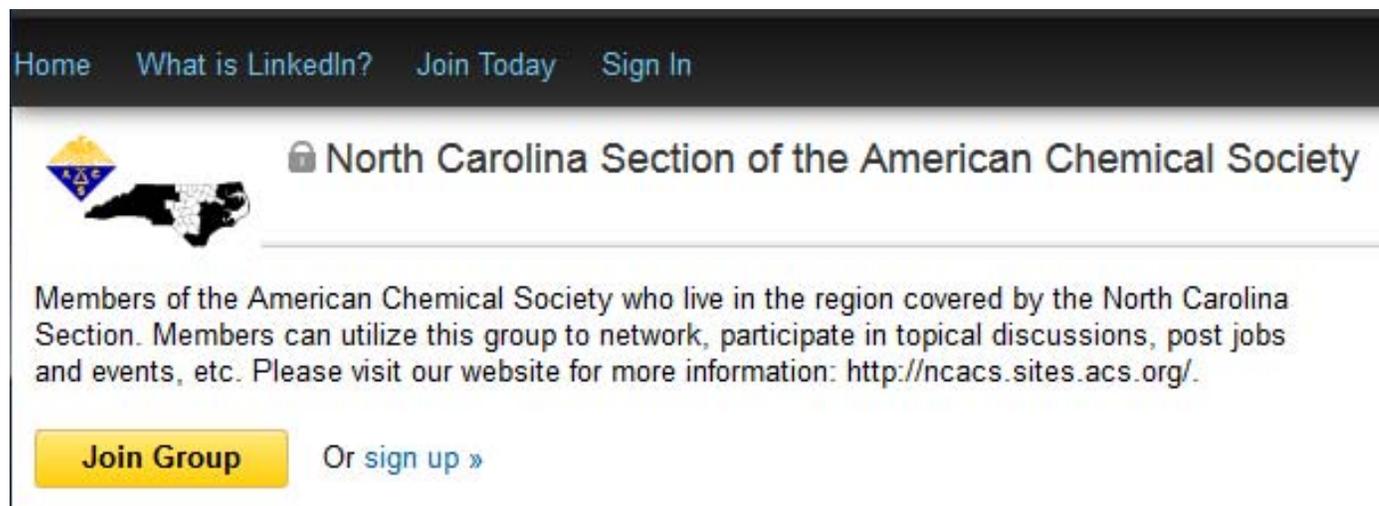
Professor Marcus E. Hobbs,
photo from Duke University
Libraries

On the very first day of my very first obligatory trip to attend the ACS Council meeting at the spring 1976 National Meeting in New York, Marcus saw me at a lunch counter in one of the restaurants in the New York Hilton. I was staring bewilderedly at the lunch menu, and Marcus, already a Councilor for many years, knew immediately why I was so concerned: I was trying to reconcile New York lunch prices with the stingy daily allotment for meals that the state of North Carolina provided to its employees on out-of-state trips! Without asking me what my problem was, he came up behind my chair and whispered something like, "To stretch a small budget, order soup!" In Marcus's memory, I pass this advice on to all who can use it.

NCACS is on Facebook and Linked In



<https://www.facebook.com/NorthCarolinaACS/>



Connect to Triangle Area Science Cafés and Pints of Science!

MOREHEAD
PLANETARIUM AND SCIENCE CENTER



THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL



CAROLINA SCIENCE CAFÉ

NORTH CAROLINA MUSEUM of NATURAL SCIENCES

Science Café Raleigh

Science Café is a monthly event where, for the price of a cup of coffee or a glass of wine, anyone can participate in topical discussions with leaders in the fields of science and technology. Hosted by local [Sigma Xi](#) chapters and the Museum, these monthly talks are located in coffee shops, bars and restaurants around Raleigh and promote discussion of science in an informal community setting.

[Past Science Café Topics](#)

Visiting Lecturers

Throughout the year, prominent researchers share their expertise with Museum visitors during presentations, discussions and informal talks.

Pints of Science

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

Events are Held at:

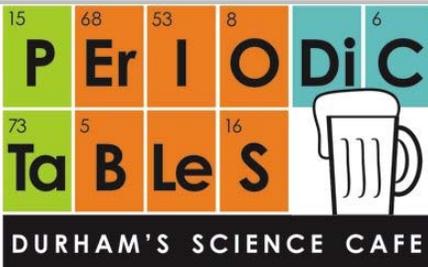
Tir Na Nog

218 South Blount St
Raleigh, NC 27601
Phone: 919.833.7795

<https://www.facebook.com/PintsofScience>

Sigma Xi Science Cafés

Sigma Xi is leading a revolution in communicating science in the U.S. This revolution is taking place in cafés, bars, bookstores, libraries, museums and theaters. Science Cafés help the public connect with science. Scientists and engineers informally share their research during a conversational exchange in a friendly setting. Through working with key partners, encouraging members to participate and supporting its chapters, Sigma Xi continues to be at the forefront of promoting and supporting Science Cafés around the country. More than thirty Sigma Xi chapters are involved with science cafes— [click here](#) to see where they are.



https://www.facebook.com/periodictables?directed_target_id=0

“Science Cafés are live—and lively—events that take place in casual settings such as pubs and coffeehouses, are open to everyone, and feature an engaging conversation with a scientist about a particular topic” (from <http://www.sciencecafes.org/what/>)

Education List Serves!!!!

Do any of these questions pertain to you...if so, please see below to find out how to grow the readership of the NC-ACS Education Committee listserv!

****Are you interested in supporting K-12 Educators?** – Sign up for the Listserv!

****Do you have a child in a K-12 Science classroom?** – Please send this email to their teacher to see if they would like to sign up!

****Do you know a K-12 Educator or Administrator?** – Please forward this email to them and encourage them to sign up!

The NC-ACS Local Section is hosting a listserv focusing on supporting K-12 Science Education!

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The listserv is called `ncacs_ed`, and it features announcements about supporting and advancing K-12 Science Education. The NC-ACS is committed to assisting K-12 Educators, and the NC-ACS Education Committee has upcoming programs we'd love to tell you about through the `ncacs_ed` listserv!

**To subscribe to the `ncached` list, send this one-line message to [mj2@lists.ncsu.edu](mailto:mj2@lists.ncsu.edu):**

**subscribe `ncacs_ed` [email@domain.com](mailto:email@domain.com)**

**replacing "[email@domain.com](mailto:email@domain.com)" with the address you want to subscribe to the list.**

Helpful Hints: 1. Don't hyperlink the email address in the one-line message. Make sure it's just text. 2. When you receive the confirmation email, use Option 3 to confirm the email address and accept the sign up.

You can opt out of any of these lists at any time by doing the previous steps, replacing "subscribe" with "unsubscribe", and where [email@domain.com](mailto:email@domain.com) is the address used for you by the list.

The NC-ACS Education Committee

(If you have any trouble, just email [ncacs\\_ed-owner@lists.ncsu.edu](mailto:ncacs_ed-owner@lists.ncsu.edu))

## NC-ACS ListServes

The official email listserve of the membership of the NC-ACS Local Section, based on the membership rosters from ACS, is [ncacsmembership@lists.ncsu.edu](mailto:ncacsmembership@lists.ncsu.edu). Inclusion on this email listserve is automatic for dues-paying members.

The following email listserve are also hosted by the NC-ACS Local Section but are open to anyone who is interested in the chemical sciences and engineering in the region:

**`ncacs`:** Announcements of job opportunities and activities that are NOT sponsored by NC-ACS

**`ncacs_ycc`:** Announcements of the Younger Chemists Committee (<= 35 years old)

**`ncacs_scc`:** Announcements of the Senior Chemists Committee (>= 50 years old)

**`ncacs_wcc`:** Announcements of the Women Chemists Committee

**`ncacs_ed`:** Announcements about supporting and advancing K-12 Science Education

To subscribe to the LISTNAME list, send this one-line message to [mj2@lists.ncsu.edu](mailto:mj2@lists.ncsu.edu):

**subscribe listname [email@domain.com](mailto:email@domain.com)**

replacing "listname" with the name of the list and replacing "[email@domain.com](mailto:email@domain.com)" with the address you want to subscribe to the list.

You can opt out of any of these lists at any time by doing the previous steps, replacing "subscribe" with "unsubscribe", and where [email@domain.com](mailto:email@domain.com) is the address used for you by the list.

## NC-ACS Local Section Executive Committee Meetings

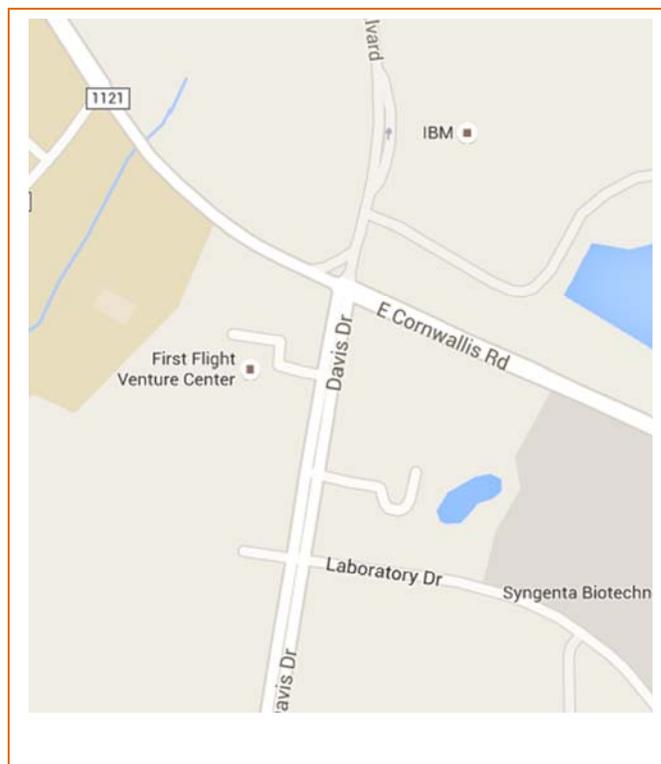
The NC-ACS Local Section Executive Committee meets on the first Wednesday of every month. Meetings are held at the First Flight Venture Center in the Research Triangle Park at 4:30 p.m. All members are welcome and encouraged to attend! Get to know your Executive Committee! Get involved! Volunteer!

Address:

First Flight Venture Center  
2 Davis Drive  
Research Triangle Park, NC 27709

The next 2 meetings are:

April 6th 2016, 4:30 pm, @ First Flight Venture Center  
May 4th, 2016, 4:30 pm, @ First Flight Venture Center



Design, Layout and Production by:



**Saunders Graphics**

Graphics for Science and Technology

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## NC-ACS Local Section Executive Committee

| Name                                                | Affiliation        | Office                                             | Term        | Phone        |
|-----------------------------------------------------|--------------------|----------------------------------------------------|-------------|--------------|
| <b>Voting Members</b>                               |                    |                                                    |             |              |
| Dorian A. Canelas                                   | Duke University    | Chair                                              | 2016        | 919-660-1528 |
| Joonhyung Cho                                       | UNC-CH             | Chair-Elect                                        | 2016        |              |
| Caroline Sloan                                      | Fayetteville State | Secretary                                          | 2015-2016   | 919-280-1549 |
| Joan T. Bursley                                     | NCBA at EPA        | Treasurer                                          | 2015-2016   | 919-5412253  |
| Jamie Saunders                                      | Saunders Graphics  | <i>TarHelium</i> Editor                            | 2012-       | 919-545-9581 |
| Alvin L. Crumbliss                                  | Duke University    | Councilor                                          | 2016-2018   | 919-660-1540 |
| James Harrington                                    | RTI International  | Councilor                                          | 2016-2018   |              |
| Laura S. Sremaniak                                  | NCSU               | Councilor                                          | 2014-2016   | 919-515-2937 |
| James Lee Chao                                      | IBM (retired)      | Councilor                                          | 2015-2017   | 919-481-2060 |
| Melissa Pasquinelli                                 | NCSU               | Councilor                                          | 2014-2016   | 919-515-9426 |
| Paige Presler-Jur                                   | RTI International  | Alternate Councilor                                | 2014-2017   | 919-541-6813 |
| Alan E. Tonelli                                     | NCSU               | Alternate Councilor                                | 2014-2016   | 919-515-6588 |
| Alexandra (Sasha)<br>Ormond                         | Meredith College   | Alternate Councilor                                | 2014 - 2016 | 919-906-8431 |
| Dorian A. Canelas                                   | Duke University    | Alternate Councilor                                | 2016-2018   | 919-660-1528 |
| Katherine Glasgow                                   | Nomacorrc          | Alternate Councilor                                |             | 919-460-2227 |
| Suraj Dhungana                                      | RTI International  | Past Chair 2015                                    |             | 919-541-6601 |
| Paige Presler-Jur                                   | RTI International  | Past Chair 2014 and<br>Acting Past Chair 2015      |             | 919-541-6813 |
| Melissa Pasquinelli                                 | NCSU               | Past Chair 2013                                    |             | 919-515-9426 |
| Keith Levine                                        | RTI International  | Past Chair 2012                                    |             | 919-541-8886 |
| Kenneth Tomer                                       | NIEHS              | Past Chair 2011                                    |             | 919-541-1966 |
| <b>Non-Voting Members</b>                           |                    |                                                    |             |              |
| Melinda Box                                         | NCSU               | WebMaster. <i>Ex Officio</i>                       |             | 919-515-2537 |
| Maurice M. Bursley                                  | UNC-CH (retired)   | Historian,<br><i>Ex Officio</i>                    |             | 919-493-3025 |
| Kenneth A. Cutler                                   | NCCU               | Project SEED,<br><i>Ex Officio</i>                 |             | 919-530-6172 |
| Stephen D. Cooper<br>James Blake<br>Brenda Flatcher | RTI International  | TCDG, <i>Ex Officio</i>                            |             |              |
| M. ter Horst                                        | UNC-CH             | TMRDG, <i>Ex Officio</i>                           |             |              |
| J. Genzer                                           | NCSU               | Soft Matter Discussion<br>Group, <i>Ex Officio</i> |             |              |

|                                |                                    |                                                     |  |  |
|--------------------------------|------------------------------------|-----------------------------------------------------|--|--|
| J. W. Thompson<br>E. Soderblom | Duke University                    | TAMS, <i>Ex Officio</i>                             |  |  |
| M. Pasquinelli                 | NCSU                               | Sustainability,<br><i>Ex Officio</i>                |  |  |
| C. Siburt                      | Duke University                    | Women Chemists<br>Committee,<br><i>Ex Officio</i>   |  |  |
| N. Pinkin                      | UNC-CH                             | Younger Chemists<br>Committee,<br><i>Ex Officio</i> |  |  |
| K. Tomer and<br>B. Kosiba      | NIEHS and BK<br>Collaborative, LLC | Senior Chemists<br>Committee                        |  |  |
| Caroline Sloan                 | Fayetteville State                 | Education Committee                                 |  |  |
| E. C. Bigham                   | Retired                            | Past Director, District IV                          |  |  |