

# The TarHelium



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## A Message from Melissa Pasquinelli NC-ACS Chair - 2013



Dear Fellow Chemical Professionals and Enthusiasts,

I am thrilled to be serving our local chemical community as the Chair of NC-ACS for 2013 (the year with all unique digits since 1987!). On behalf of the NC-ACS Local Section, I want to express my sincere appreciation for the superb leadership skills of our 2012 Chair, Keith Levine from RTI International, and all that he has done for our Section. I also want to thank the rest of the Executive Committee and other volunteers for their active involvement, including our

newest member, Paige Presler-Jur, Chair-Elect for 2013. We have a strong Local Section due to the continued volunteerism of this excellent group of people, some of whom have been active volunteers with the Local Section for over 25 years! We have a variety of activities planned for 2013, so we hope that you join us as a participant or volunteer; we are always in need of people who can help champion activities, so let us know if you want to build up that part of your resume. Some items of interest are highlighted below; **please watch the listserve, website, LinkedIN group, and TarHelium for more details on them:**

***Social and Networking:*** We have a variety of events planned throughout the year to engage our membership, such as Durham Bulls games, Science of Eats, 127<sup>th</sup> NC-ACS Local Section Meeting, and a career networking event. You can also become involved in one of our Section's Discussion Groups, including the Triangle Area Mass Spectrometry, Triangle Chromatography, and Triangle Magnetic Resonance Discussion Groups (the Polymer Discussion Group is in need of a leader). We also have a local Women Chemists Committee and a newly reactivated Younger Chemists Committee. *This year, we hope to also re-establish our K-12 Education Committee and to establish a Senior Chemists Committee*, so if you are interested in being involved with these endeavors, please contact us.

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

M. Pasquinelli, Chair  
Paige Presler-Jur, Chair-Elect  
S. Eckert-Tilotta, Secretary  
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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](mailto:jamie@saundersgraphics.com)  
The phone number is 919 545-9581.



**Service and Outreach:** You can get involved with helping our Section promote the chemical sciences and engineering in our community! Activities include the Chemistry Olympiad, the NC State Fair, Eno River Festival, Fiesta del Pueblo, NBC17 Health Fair, Earth Day events, and National Chemistry Week at the Museum of Natural History in Raleigh.

**NC-ACS Project SEED:** (<http://ncprojectseed.org/>) We have one of the largest and most successful Project SEED programs in the country under the leadership of Ken Cutler from NCCU! We are currently seeking additional volunteers to help us retain and strengthen this program. Financial donations are also welcome; please contact our Treasurer, Joan Bursey (Bursey.Joan at epamail.epa.gov). Despite its high success rate, our program has been struggling to secure funding for this year and beyond.

**NC-ACS Undergraduate Scholarships:** We award a few scholarships a year to support research activities for undergraduate students in our Local Section in the chemical sciences and engineering; at least one scholarship is dedicated to students at primarily undergraduate institutions. If you or your organization are interested in sponsoring one of these awards, please contact Jeremy Feducia (jfeduci at ncsu.edu).

**Awards and other Recognitions:** We will continue to host our NC-ACS Distinguished Speaker and Marcus Hobbs Awards, as well as nominate Local Section members as ACS Fellows and other awards at the Regional and National levels. Suggestions of deserving individuals are always welcome; we are particularly interested in increasing the number of award nominations for members who are outside of academia. We will also continue to foster activities that can be nominated for ChemLuminaries.

If you have other ideas, or other questions or comments, please do not hesitate to contact me or other members of the Executive Committee, all of whom are listed on the last page of every *TarHelium*. Remember that ACS has funding available for special projects in Local Sections (<http://www.acs.org/funding>, then select "ACS Community Recognition Grants"), so if you have an idea, we can help you put together the activity and the application.

We look forward to engaging with you through our common interest in chemistry!

Warm Regards,

Melissa Pasquinelli

## Note from the Outgoing Chair: Keith Levine



Dear Friends and Colleagues,

It's been a privilege to have served the NC-ACS as Chair during 2012, and I'm especially thankful for the opportunity to have met so many ACS members from across our Section! I continue to be amazed at the professional breadth and diversity of our Section's membership and the many opportunities afforded to us by living in this area. We've had a very successful year, and I wanted to take this opportunity to express my sincere gratitude to the many people who have made this possible.

First and foremost, I'd like to thank all of the members the NC-ACS Executive Committee for their help and guidance throughout the year. **Joan Bursey** and **Sally Eckert-Tilotta** have spent a lot of volunteer time and energy working 'behind the scenes' to keep things moving as our Section's Treasurer and Secretary, respectively. **Melinda Box**, our Section's webmaster, runs an outstanding website that is well regarded by ACS National and is something that we can all be proud of. The same is also true of this newsletter, which **Maria (Lyn) Francisco** and **Jamie Saunders** have done an amazing job with throughout the year. **Bill Switzer** has maintained our listservers, which are increasingly critical for our Section to function. On short notice, **Laura Sremaniak** volunteered a significant amount of her time to serve as the Chair of our Project SEED committee; she provided critical proposal and marketing support to enable our SEED Program Manager, **Kenneth Cutler**, to continue with this highly effective and successful program. **Jeremiah Feducia** led our undergraduate scholarship and has worked to expand and improve our current program, and Myra Halpin again led a Chemistry Olympiad. As you may know, our Section's primary goals for 2012 were to increase participation of NC-ACS members in our Section's activities and to improve our public relations and outreach portfolio. Thanks to the work of many volunteers, I'm pleased to report that we were successful on both counts. Highlights from 2012 included:

- Science of Wine event at the Durham Museum of Life and Sciences: this February event, coordinated by **Paige Presler-Jur**, attracted 100 NC-ACS members and their guests to participate in wine tasting and learn about the science of making wine. Importantly, roughly two-thirds of the attendees indicated that this was their first Section activity.
- Big Boss Brewery Tour: this March event, coordinated by **Angela Stewart**, attracted nearly 30 of our Section's members to learn about the art and science of beer brewing. As with the Science of Wine Event, a majority of the attendees indicated this was their first NC-ACS activity.
- NC-ACS Nights at the Durham Bulls: the NC-ACS hosted two nights of baseball in May and June at the Durham Bulls Athletic Park. These family-friendly outings were well-received by the nearly 100 NC-ACS members in attendance, many of who had never attended a previous Section event. These activities also expanded our activity calendar into the summer months, when we have traditionally not been as active. Thanks to **Paige Presler-Jur** for her leadership with these events.
- Outreach at the Festival for the Eno: for the first time, the NC-ACS hosted a booth at the Festival for the Eno on several days around the July 4<sup>th</sup> holiday. This event enabled us to reach approximately 1,500 environmentally-concerned people, many of whom were unfamiliar with the ACS. Our outreach was successful because a cadre of NC-ACS volunteers braved the triple-digit heat and because of the leadership of **James Harrington**.
- National Chemistry Week: In celebration of National Chemistry Week, the NC-ACS hosted an October outreach booth at the Museum of Natural Science in Raleigh. A fantastic crowd of nearly 4,000 visitors took part in fun, interactive

demonstrations including candy chromatography, DNA isolation, and 'green chemistry'. This highly successfully event would not have possible without **James Harrington** and a large team of volunteers.

- SERMACS 2012: our Section hosted this year's Southeastern Regional Meeting of the American Chemical Society from November 14 – 17 at the Raleigh convention center. **By every measure, this meeting was a tremendous success and honor for our Section.** It is impossible to overstate the volunteer efforts of dozens of NC-ACS members and the outstanding leadership of **Charles Goss**. On behalf of our Section, I would like to extend a heartfelt 'thank you' to Charlie and the entire SERMACS team.
- NC-ACS Local Section Conference: hosting SERMACS presented us with the opportunity to include the 126<sup>th</sup> NC-ACS Local Section Conference as part of the program. In addition to an outstanding local technical program, awards presentation, and Distinguished Speaker Lecture by Jane and Dave Richardson, the SERMACS venue was effective in educating the broader ACS community about the NC-ACS. Congratulations and thanks to **Melissa Pasquinelli** and the team of volunteers for hosting this outstanding event.

Finally, I'm very thankful to have had the opportunity to work closely over the past few months with **Melissa Pasquinelli**, our 2013 Chair, and **Paige Presler-Jur**, our 2013 Chair-Elect, and can say with absolutely certainty that the best is yet to come for our Section!

Thanks to all for an incredible year!

*Keith Levine*

## 2013 Elections Results



Paige Presler-Jur  
was elected Chair-elect



Dorian Canelas  
was re-elected  
Alternate Councilor



Richard Palmer  
was re-elected  
Councilor



Al Crumbliss  
was re-elected  
Councilor

## The 126th Conference of the North Carolina Section of the American Chemical Society (NC-ACS)

by Melissa Pasquinelli

The 126th Conference of the North Carolina Section of the American Chemical Society (NC-ACS) was held on Wednesday November 14, 2012, as the Welcome Reception for SERMACS 2012 at the Raleigh Convention Center. This conference had a record for overall attendance with over 300 attendees from both the Local Section and beyond. An outstanding buffet was provided by Centerplate. The conference included an interesting presentation by the 2012 NC-ACS Distinguished Speaker, Jane and Dave Richardson from Duke University, which was entitled "Admiring, Analyzing, and Improving the 3D Structures of Macromolecules". There were also 80 presentations across four poster session categories: High School Students, Undergraduate Students, Graduate Students, and Postdoctoral Fellows and Professionals. Poster awards were given to the following individuals:

### Postdoctoral Fellow Category

- 1st Place: **Takashi Tsuchiya, North Carolina State University** (with Kushal Shrestha, and Elena Jakubikova), "Orbital analysis and excited state calculations in the energy-based fragment method"
- 2nd Place: **Aruna J. Weerasinghe, Duke University** (with Shady Amin, Claire Parker Siburt, Ariel Romano, Carl Carrano, and Alvin Crumbliss), "Boron in a changing ocean: not so 'boring' anymore?"

### Graduate Student Category

- 1st Place: **Michael A. Bertucci, University of North Carolina** (with Michel Gagne), "Thiourea-catalyzed aminolysis of N-acyl homoserine lactones"
- 2nd Place: **Katherine E. Marusak, Duke University** (with Aaron Johnston-Peck, Wei-Chen Wu, and Joseph Tracy), "Synthesis of ligand-stabilized CoNi nanoparticles with tunable sizes and compositions"
- 3rd Place (tie): **Nasim Farahbakhsh, North Carolina State University** (with Jesse Jur), "Incorporation of graphene nanoplatelets to PDMS"
- 3rd Place (tie): **David N. Bowman, North Carolina State University** (with Reginaldo Rocha and Elena Jakubikova), "Reproducing solvatochromic behavior in cyano-containing chromophores: Explicit solvent vs. implicit model"

### Pictures! From the local section meeting

<http://ncacs.sites.acs.org/apps/photos/album?albumid=14359666>

Submitted by Melissa Pasquinelli



**Undergraduate Student Category**

- 1st Place: **Isaac P. Kichak, North Carolina State University** (with Abhay Joiode, Alan Tonelli, and Jan Genzer), "Formation and characterization of an inclusion complex (IC) between Poly (2-hydroxyethyl methacrylate) (PHEMA) and Gamma Cyclodextrin ( $\gamma$ CD)" (Also an NC-ACS Scholarship Awardee!)
- 2nd Place: **Oindree Banerjee, North Carolina State University** (with Leslie Sombers), "Quantification of Fenton Chemistry"
- 3rd Place: **Meghan Wilt, North Carolina State University** (with Maryam Mazloumpour, Orlando Rojas, and Julie Willoughby), "Lignin as a material platform for bio-derived macromolecules and fibers" (Also an NC-ACS Scholarship Awardee!)

**High School Student Category**

- 1st Place: **Catherine Ambrose, Enloe High School/North Carolina State University** (with Noelle Ocon, Richard Padbury, Nasim Farahbakhsh, and Jesse Jur), "Handheld Raman Spectroscopy Analysis of Art Pigments"
- 2nd Place: **Landon Carter, North Carolina School of Science and Math**, "Design and Synthesis of Novel Tetraphenylporphyrin-based Metal-Organic Frameworks for Photodynamic Therapy and Drug Delivery"
- 3rd Place: **Miles Ndukwe, NC-ACS Project SEED Student/North Carolina State University** (with Alper Gurarlan, Jialong Shen, and Alan Tonelli), "Probing the Bases of Polymer Glass Transitions"

**Other recognitions included:**

- 2012 Marcus Hobbs Service Award: **Laura Sremaniak, North Carolina State University** and a Councilor for the NC-ACS Local Section; she also chairs the local WCC and the advisory subcommittee for Project SEED.
- 50 year and 60 year members: 60 year members are: **Mr. R.O. Beauchamp Jr., Dr. Roy Bennett, Dr. Chicita Culberson, Dr. Harvey Ledbetter**; 50 year members are: **Dr. John Allis, Dr. Bertram Fraser Reid, Dr. Nancy Gallagher, Dr. J.M. Knight, Dr. Daniel Kochavi, Dr. Louis Levy, Dr. Janet Rideout, Mr. James Testrake, and Dr. Charles Twine.**
- Undergraduate Scholarship Winners: **Richard Deans** (NCSU; Dr. Jon Lindsey), Dr. Ernest Eliel Scholarship Award; **Joseph Moo-Young** (NCSU; Dr. Melissa Pasquinelli), Howie James Scholarship Award; **Zeenat Razvi** (Meredith; Dr. Kassy Mies), Ivy Carroll Scholarship Award; and **Isaac Kichak** (NCSU; Dr. Jan Genzer), Gertrude Elion Scholarship Award.
- NC-ACS Chair Awards: **Paige Presler-Jur (RTI), James Harrington (Catalent Pharma Solutions), and Charlie Goss (GSK).**
- 2012 Southern Chemist Award: **R.K.M. Jayanty, RTI International**, for his significant impact on health and well-being of the South, particularly his work on Chemical Speciation of Fine Particulate Matter in the Atmosphere. Given by the Memphis Section on Nov. 27, 2012.
- NC-ACS Local Section Meeting event organizing committee: Melissa Pasquinelli, Chair (NCSU); Paige Presler-Jur, co-Chair (RTI); Charlie Goss (GSK), Keith Levine (RTI), Richard Palmer (Duke), Michelle Stevenson (ACS), and Marc ter Horst (UNC).
- bNC-ACS Local Section Meeting Poster judges: Suraj Dhungana (RTI), Meredith Earl (Liquidia Technologies), Reshan Fernando (RTI), Keith Levine (RTI), Sumith Kottegoda (Independent Consultant), Chris Oldham (Vaporpulse Technologies), Maruthi Pavani (RTI), Emily Schieffer (Environmental Consultant), Derek Schorzman (Liquidia Technologies), and Nancy Scott (The Catena Group).
- Other NC-ACS Local Section Meeting volunteers: Hammad Cheema (NCSU), Amal Essader (RTI), Kun Fu (NCSU), Ben Giglio (UNC), Le Li (NCSU), Nan Li (NCSU), Abhishek Singh (NCSU), Laura Sremaniak (NCSU), Sally Tilotta (NIEHS), Natalie Wetzel (Education Consultant), and Joshua Yoon (NCSU).

## SERMACS 2012

by Charles Goss

NC-ACS hosted the 64th Southeastern Regional Meeting of the American Chemical Society (SERMACS 2012) at the Raleigh Convention Center in beautiful, historic, and lively downtown Raleigh, N.C., from Wednesday through Saturday, Nov. 14-17. With over 2300 attendees and almost 1400 abstracts, this 64th SERMACS continued a long tradition of strong participation that showcased both the innovative chemistry and the dynamic people associated with the Southeastern Region. Information about the program, registration, accommodations, meeting details, and useful web links can be found on the meeting website at [www.sermacs2012.org](http://www.sermacs2012.org).

**TECHNICAL PROGRAM** A vast array of chemistry was represented with 26 invited symposia and contributed papers together comprising nearly 100 oral sessions and over 40 poster sessions. SERMACS 2012 was fortunate to partner with three special conferences. The Energy Frontier Research Center (EFRC) and Solar Energy Research Center (SERC) hosted a conference on "Photonic Assemblies, Materials, and Catalysts for Solar Fuels". The North Carolina Local Section had its 126th NC-ACS Local Section Conference Meeting featuring the NC Distinguished Speaker Award Lecture. Finally, the 41st Southeastern Magnetic Resonance Conference (SEMRC) covered the latest developments in NMR, EPR, and MRI with presentations from established and emerging leaders. See the SERMACS 2012 website for the full list of symposia and their generous sponsors.

**VENDOR EXPOSITION** On Thursday and Friday, attendees were able to visit over 50 booths in the Exposition area with vendors and organizations showcasing their products and services. Special vendor seminars by companies like Waters, Gamry Instruments, and NETZSCH Instruments presented the latest developments and applications in a variety of technologies.

**COURSES AND WORKSHOPS** The meeting offered many opportunities for skill development in a variety of areas. Workshops on Chromatography, Negotiation for Women Chemists, Grant Writing, Backward Course Design, and Chemistry Demonstrations covered important skills. Job seekers enjoyed ACS Career Workshops, Resume Review, Speed Networking, and Job Hunting Tips at the Career Connections office.

**GRADUATE SCHOOL FAIR** On Friday and Saturday, SERMACS 2012 welcomed over 20 exhibitors to the Graduate School Fair where they showcased their programs to the many undergraduate student presenters and attendees.

**All these photos and more are available on the NC-ACS We bSite**

Provided by Bill Gutknecht, Jim Chao, and Charlie Goss



**UNDERGRADUATE PROGRAM** SERMACS 2012 had a large contingent of oral and poster sessions specifically for undergraduates on Friday and Saturday, with prizes awarded to the top rated presentations in each session. An additional set of awards, sponsored by [Sigma Xi, The Scientific Research Society](#), recognized the presentations that demonstrated the best collaborative team science. Undergraduates also participated in the career development workshops, networked with other scientists, and learned about higher learning opportunities at the Graduate School Fair.

**HIGH SCHOOL AND PROJECT SEED PROGRAM.** Saturday featured a number of events for high school teachers and students, including participants in Project SEED from various local sections in the Southeastern Region. Learn NC organized a high school teacher orientation program to interested high school teachers. Morning oral and poster sessions gave students a chance to share their work and practice presentation skills. A panel discussion discussed the best ways to prepare students for college chemistry. In the afternoon a special Project SEED Symposium, the first of its kind at SERMACS, provided a review of different Project SEED programs in the Southeastern Region and their best practices

**EVENTS AND AWARDS.** The **Welcome Reception** on Wednesday evening was held in conjunction with the **126<sup>th</sup> North Carolina Local Section (NC-ACS) Conference**. The event featured delicious hors d'oeuvres and beverages, a large poster session with awards for the best poster in a variety of categories, and concluded with a lecture by the **2012 NC-ACS Distinguished Speaker Award winners, Jane and Dave Richardson from Duke University**, who spoke about ***"Admiring, Analyzing, and Improving 3D Structures of Macromolecules"***. Thursday events included the **Women Chemist Committee Luncheon with a keynote address from Barbara Ramsay Shaw from Duke University**, a late afternoon **Plenary Lecture by Royce W. Murray** from UNC Chapel Hill, then science and socializing in the evening at **Sci-Mix sponsored by Scynexis**. On Friday, we celebrated **Entrepreneurial Chemistry** with a symposium and the **Industrial Innovation Award Luncheon honoring the award winner, Christian Melander from NC State University**. The Friday afternoon **ACS Governance Social** featured delicious **liquid nitrogen ice cream** with toppings served in beakers, volumetric glassware, and Erlenmeyer flasks. On Friday evening attendees visited the fabulous **North Carolina Museum of Natural Sciences** for the **SERMACS Awards Reception (sponsored by Eastman Chemical)** where the **ACS Stanley C. Israel Southeastern Regional Award** for Advancing Diversity in the Chemical Sciences was presented to Christine Grant from NC State University, and the **E. Ann Nalley Southeastern Regional Award** for Volunteer Service to the ACS was presented to Chris Bannochie from the Savannah River National Laboratory. The museum event also featured a **plenary address by Joseph DeSimone** from UNC Chapel Hill and NCSU. On Saturday,

### Photos from the Awards Ceremonies by James Chao





two luncheons celebrated the **Undergraduate Oral and Poster Presentation Award Winners** and the **ACS CHED High School Teacher Award** winner Susan Dana from Blacksburg High School in Virginia. The HS Teacher Award luncheon ended with a **keynote address by Brian Thomas from RTI International**.

**ACTIVITIES AND TRAVEL** SERMACS 2012 attendees enjoyed Raleigh's vibrant downtown restaurants, museums, music venues, sports events, and other diverse cultural attractions, many within walking distance or on the free downtown R-line bus route.

The SERMACS 2012 organizers thank **all the fantastic volunteers who made the meeting run smoothly** and **all the generous sponsors whose support was critical to the meeting success**. We are grateful for the warm welcome and cooperation from the Raleigh Convention Center, the Marriott City Center Hotel, the NC Museum of Natural Sciences, and *visitRaleigh*. We thank the ACS Regional Meetings staff for their constant guidance and organizational help. Finally, NC-ACS sends a big **"THANK YOU!!!"** to all the **SERMACS 2012 Planning Committee members for their tremendous efforts**.

### SERMACS 2012 Planning Committee

General Meeting Chair	Charles A. Goss, GlaxoSmithKline
Treasurer	Sol Levine, NCSU, Retired & Nature's Images by Sol
General Program Chair	Marc ter Horst, UNC Chapel Hill
Symposia	Kenneth B. Tomer (Chair), NIEHS
	Richard A. Palmer, Duke University
	Shri Kulkarni, KulTech Incorporated
SEMRC Conference	Alex Nevzorov (Chair), NCSU
	Irina Nesmelova, UNC Charlotte
	Tatyana Smirnova, NCSU
	Alex Smirnov, NCSU
UNC SERC/EFRC Conference	Thomas J. Meyer, UNC-EFRC
	Catherine Heyer, UNC-EFRC
	Will Thauer, formerly of UNC-EFRC
Vendor Exposition	John W. Hines (Chair), RTI International
	Reshan Fernando, RTI International
Sponsorships	RKM Jayanty, RTI International
	Rachelle Bienstock, NIEHS, retired
	Pauline Ondachi, RTI International
Workshops	Catherine R. Brennan UNC Chapel Hill
Poster Sessions	Yaroslava (Yara) Yingling, NCSU
Undergraduate Program	Dan Shin, Campbell University
	Dan Barber, LORD Corporation
	W. Lin Coker III, Campbell University
	Jeremiah Feducia, NCSU
	Phil Brown, NCSU
	Kassy Mies, Meredith College
High School Program	Marc ter Horst, UNC Chapel Hill
Project SEED	Alan Tonelli, NCSU
Awards	Jim Chao, IBM, retired
Graduate School Fair	Ana Muresan, USPTO
Program Book	Danna Mattocks, GlaxoSmithKline
Registration and Program Book	Bill Gutknecht, RTI International, Scientist Emeritus

AV	David Elam, Summa Consultants, Inc.
Signage, Internet and Social Media	Anderson Cox, RTI International
Webmaster	Dustin Wheeler, NCSU
Communications	William L. Switzer, NCSU
Chemistry Demos	Sol Levine, NCSU Retired, and Nature's Images by Sol
	Kenneth S. Lyle, Duke University
	Melinda Box, Wake Tech Community College
Site Planning	Sol Levine, NCSU, Retired & Nature's Images by Sol
	Keith Dawes, NCSU
	John Hines, RTI International
Communications	William L. Switzer, NCSU
ACS Office of Regional Meetings	Michelle Stevenson, ACS

## NC-ACS and the National Society of Science Writers

by Sol Levine

Sponsored by the North Carolina Section of the ACS North Carolina State University, the National Society of Science Writers were both educated and amused by a presentation on the States of Matter at a luncheon during their national meeting at the Raleigh Convention Center on October 29th.

In spite of Hurricane Sandy, there were about 275 people in attendance, about half of who sat in an area where they could watch the demonstrations; many told event coordinator Sol Levine that they were amused and amazed at some of the things we could do with a mobile stage show. The stage show was a hit with the attendees, with many who whooped and jumped each time there was a loud noise or display.

## 2012 NCACS Volunteer "Thank You" Dinner



The dinner will be January 11th, Assembling at 6:30,  
Dinner at 7:30

If you would like to attend and have not already made  
your RSVP, please contact  
Keith Levine at: 919-541-8886 or [levine@rti.org](mailto:levine@rti.org)

The Mez Restaurant  
5410 Page Road  
Research Triangle Park (Durham), NC 27703  
Telephone: 919 941 IMEZ (1630)  
Email: <http://www.mezdurham.com/>



## CALL FOR 2013 NC ACS UNDERGRADUATE SCHOLARSHIP APPLICATIONS

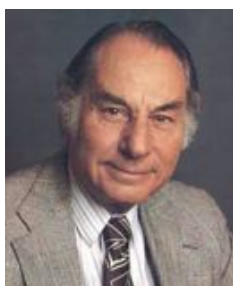
The North Carolina Section of the ACS (NC-ACS) is pleased to announce its annual call for undergraduate scholarship applications. Up to four scholarships of \$4,000 each may be awarded to undergraduate students who will actively be conducting research in the chemical sciences. The decision to award one or more scholarships, and the amount(s) of these scholarships, are within the sole discretion of the Executive Committee of the NC-ACS. Three of the scholarships will be named in honor of distinguished NC-ACS members Dr. Ernest Eliel, Mr. Howie James, and Dr. F. Ivy Carroll (see below).

### How to Apply:

- To be considered for a scholarship, the student must be an undergraduate attending and conducting research at a university within the Local Section. **Applications from outside of the NC-ACS geographical area will not be considered.**
- Applications must be submitted online:  
[http://www.ncsu.edu/ncsu/chemistry/outreach/ACSnc/application\\_scholarship.html](http://www.ncsu.edu/ncsu/chemistry/outreach/ACSnc/application_scholarship.html)
- In addition to the application, a letter of recommendation from the student's research advisor must be sent as an e-mail attachment to the scholarship committee chair: [jfeduci@ncsu.edu](mailto:jfeduci@ncsu.edu).
- To be considered, applications must be submitted by **April 9, 2013**.
- Applicants are *not* required to be ACS members.
- All applicants will be notified by e-mail about the status of their application by May 6, 2013. The NC-ACS will begin distributing awards on May 13, 2013.

### Award Details and Requirements:

- Award recipients will be required to present their research findings at a local, regional or national ACS meeting, TCDG Conference, or similar venue.
- Award funds will be distributed in two payments. The first payment (\$3,500) will be sent to the academic department where the student is conducting research. These funds can only be used by the student or the student's advisor to pay for reagents, instrument components or labware, copies, books, software, student travel costs for presentation of scholarship-funded research results, and the student's research salary.
- The second payment (\$500) will be presented directly to the student upon completion of a presentation of research findings at one of the above described venues.
- The F. Ivy Carroll Scholarship will preferentially be awarded to the highest scoring application from an institution with an enrollment of less than 10,000 students.



Dr. Ernest Eliel was a W. R. Kenan, Jr. Professor of Chemistry at the University of North Carolina, Chapel Hill and was a central figure in the field of stereochemistry. Some of his many awards, accomplishments, and recognitions include being a member of the National Academy of Sciences, a Guggenheim Fellow, and receiving the Lavoisier Medal of the Chemical Society of France. He served as President of the American Chemical Society, and received its highest recognition, the Priestley Medal, in 1995.



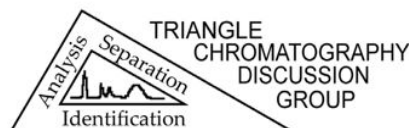
Mr. Howie James was an Executive Technical Sales Representative with the Waters Corporation and a long standing member of the Triangle Chromatography Discussion Group (TCDG). He was very active in planning and executing TCDG workshops, seminars, and the annual Triangle Symposium and Instrument Exhibit.



Dr. F. Ivy Carroll is a Distinguished Fellow in Medicinal Chemistry at RTI International. His many scientific achievements include the development of a diagnostic agent for Parkinson's disease and of other compounds as potential treatments for cocaine and nicotine addictions and other central nervous system disorders. In recognition of his work, Dr. Carroll was inducted into the American Chemical Society Medicinal Chemistry Hall of Fame in 2007.

Contributed by Jeremy Feducia

If you have any questions concerning the application instructions or requirements, please contact Jeremy Feducia (jfeduci@ncsu.edu).



## THIRTIETH TRIANGLE CHROMATOGRAPHY SYMPOSIUM AND INSTRUMENT EXHIBIT

**Save the Date!**

**Thursday, May 16, 2013**

at the

McKimmon Conference and Training Center  
North Carolina State University, Raleigh, North Carolina

- Selected Keynote speakers (from Academia and Industry)
  - Dr. Morteza Khaleli, North Carolina State University, title to be published on TCDG website.
  - Dr. Manon Villeneuve, GlaxoSmithKline, *Supercritical Fluid Chromatography (SFC)—from method development and preparative to CO<sub>2</sub> recycling*
  - Dr. Russ Grant, LabCorp, *Chromatography and Clinical Diagnostics; the Post-apocalyptic Rapture*
  - Another speaker and title to be published on the TCDG website.
- Over 30 Exhibitors representing National and Local Companies with expertise in Chromatography, lab supplies, chemicals, and instrumentation
- TCDG Grand Prize Drawing (Gift Check)
- Vendor Give-A-Ways
- On-site Lunch Included
- Student Poster Presentation and Awards

Sponsored by Triangle Chromatography Discussion Group of the North Carolina Section of the American Chemical Society  
[www.TCDG.org](http://www.TCDG.org)

## NC Biotech Biomanufacturing and Process Development Group Meetings

### Do you work in Bioprocess/Bioanalytical Development, Bioprocess Tech Transfer, Bioprocess Manufacturing/QC?

The NC Biotechnology Center sponsors the **Biomanufacturing and Process Development (BPD)** group which meets for seminars and other programs on the subject. Members of the ACS BIOT Division are especially encouraged to attend. Upcoming programs this spring will address Scale up/Scale down, Use of Disposables in Manufacturing and New Frontiers in Bioprocessing. Organizers are always on the lookout for speakers on future BPD topics.

**BPD Mission and Goals** BPD's mission is to provide a forum for process development scientists and engineers to discuss bioprocessing issues. The group meets approximately six to seven times a season/year with speakers from academia, industry, technology vendor experts, and regulatory experts.

**Attendee Guidelines** Faculty, students, post docs, and industry members with interest in BPD are welcome. For advance registration, students pay only a minimal, discounted admission (includes any food!).

**Meeting Format** Each event will host multiple speakers centered around the event theme, allow a time for networking among attendees, and optionally include a vendor show or poster presentations. Food is frequently served to encourage informal discussions between sessions.

**Program Schedule 2012 – 2013 Season** Most events run from 2 p.m. to 5:30 p.m. and are held at the North Carolina Biotechnology Center, unless otherwise noted. Registration is required for all seminars. Advance registration is \$25, and \$5 for graduate and post-doctorate students, unless otherwise noted. Admission is also available at the door.

For more information and a link to online event registration, visit: <http://www.ncbiotech.org/business-commercialization/connect-with-colleagues/intellectual-exchange-groups/BPD>

Submitted by  
Bradley E Kosiba, PhD, CPIP  
Principal  
BK Collaborative, LLC  
Chapel Hill, NC

## Volunteer Opportunity! Ask a Chemist!

Chair Person Melissa Pasquinelli received this note from Mikal Ankrah of ACS, and would like to share this information about a great volunteer opportunity with all NC-ACS members!

Dear Local Section Leader,

Do you remember being a student, and searching for an answer to a relatively simple question for a term paper, homework or maybe project of some sort? Rather than spending copious amounts of time perusing periodicals and journals, it would have been much easier to pose your question directly to someone who has expertise in the field, right? Well, there are many students now facing the same dilemma and we would like you – the expert – to lend them a helping hand.

The ACS is launching a new program called “Ask an ACS Chemist”. Our Publications Division technical support for ACS journals receives roughly 10-15 science-related inquiries each week, typically from high school and undergraduate students. The questions are usually along the lines of:

How does the microscopic method determine particle size?

Which enzyme is inhibited by zinc in Alzheimer’s?

What is chemical equilibrium?

Currently when we receive these questions, one of our staff members will direct them to a host of journals where the student may or may not find an answer. We would like to offer the students a more personal touch by funneling those questions to a collective of scientific professionals, such as yourself, and allowing you to share your expertise on the subject matter. We anticipate this initiative will require very little commitment on your end; you may contribute as often as you choose. The format will be a forum of threaded posts in an ACS Network group to which you would be invited to join. You would then begin receiving the notifications as new questions are posted and can log in to view and/or comment where you feel comfortable. All we would need from you to participate is to merely reply to this email letting us know you are interested and we will invite you to join the Network group. Just think how immensely such a modest connection between yourself and a student could impact their future in chemistry.

If you have any questions about this program, feel free to contact [outreach@acs.org](mailto:outreach@acs.org) at any time. We look forward to your participation.

Mikal C. Ankrah

Member Communities | Volunteer Support

1155 16th St., NW | Washington | DC 20036

T 202-872-6326 | F 202-872-4353 | 800-227-5558

[www.acs.org](http://www.acs.org)

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ACS Chemistry for Life  
American Chemical Society

## Call for Nominations: Marcus E. Hobbs and Distinguished Lecturer Awards

The Executive Committee invites all NC ACS members to nominate worthy individuals for the **Marcus E. Hobbs Service Award** and the **NC ACS Distinguished Lecturer Award**. Descriptions of these awards, which will be presented at the NC-ACS Local Section Conference this fall, are provided below.

Nomination packages should be forwarded to Keith Levine at the contact information listed at the end of this article. **The nomination deadline for both awards is March 15, 2013**

### Distinguished Lecturer Award:

The NC ACS Distinguished Lecturer award was established in 1982. The nomination package should include a nominating letter summarizing the nominee's research contributions, a CV, and up to two additional letters of support. Past award winners can be found: <http://ncacs.sites.acs.org/History/Distinguished%20Speakers%20Award/index.html>

### The Marcus E. Hobbs Service Award:

The Marcus E. Hobbs Service Award was established in 1988 to recognize members who have made significant, long-term contributions to the NC ACS. The award was named for Marcus E.

Hobbs, Department of Chemistry, Duke University, a model member who worked closely with the North Carolina Section since serving as Chair in 1945. The nomination package should include a nominating letter summarizing the nominee's contributions to the NC ACS and a CV. Past award winners can be found:

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

Completed applications should be submitted electronically no later than **March 15, 2013** to: [Keith Levine \(levine@rti.org\)](mailto:levine@rti.org).

## NCACS ListServers

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 listserves 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\_yc:** 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-volunteers:** For people interested in contributing and/or leading NC-ACS activities

**ncchemed:** Announcements about Chemical Education (K-12 and Community College)

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**

replacing "listname" with the name of the list and replacing "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. Meeting dates are: June 6, August 1, September 5, October 3, November 7, and December 5. Meetings are held at the Hamner Institute 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:**

The Hamner Institutes for Health Sciences  
6 Davis Drive  
PO Box 12138  
Research Triangle Park, NC 27709-2137

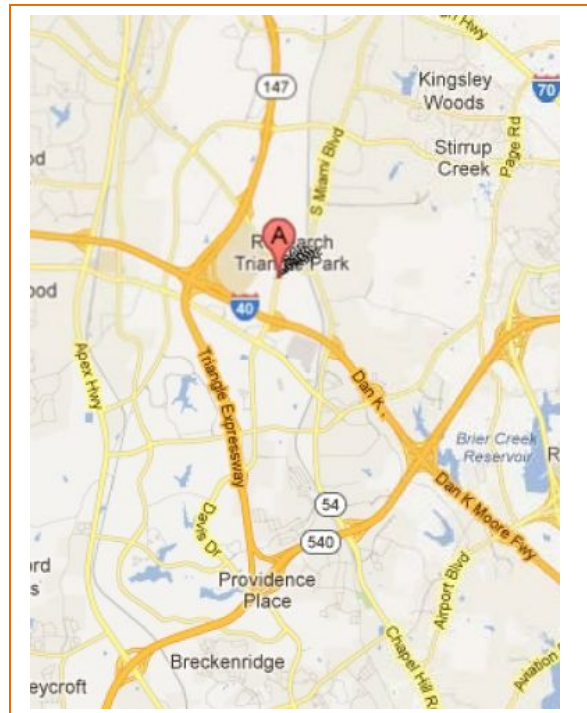
The next four meetings are scheduled:

Wednesday, Jan 2 at 4:30 PM - 6:00 PM

Wednesday, Feb 6 at 4:30 PM - 6:00 PM

Wednesday, Mar 6 at 4:30 PM - 6:00 PM

Wednesday, Apr 3 at 4:30 PM - 6:00 PM



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### NC-ACS Local Section Executive Committee – Winter 2013

Name	Affiliation	Office	Term	Phone
<b>Voting Members</b>				
Melissa Pasquinelli	NCSU	Chair	2013	919-515-9426
Paige Presler-Jur	RTI International	Chair-Elect	2013	919-541-6813
Sally Eckert-Tilotta	NIEHS	Secretary	2012-2014	919-541-1446
Joan T. Bursey	NCBA at EPA	Treasurer	2011-2013	919-5412253
Jamie Saunders	Saunders Graphics	<i>TarHelium</i> Editor	2012-	919-545-9581
Alvin L. Crumbliss	Duke University	Councilor	2013-2014	919-660-1540
Richard A. Palmer	Duke University	Councilor	2013-2014	919-672-7991
Sara Paisner	PN&S Consulting, LLC	Councilor	2011-2013	919-830-5275
Laura S. Sremaniak	NCSU	Councilor	2011-2013	919-515-2937
James Lee Chao	IBM (retired)	Councilor	2012-2014	919-481-2060
Dorian A. Canelas	Duke University	Alternate Councilor	2010-2013	919-660-1537
Alan E. Tonelli	NCSU	Alternate Councilor	2010-2012	919-515-6588
Suraj Dhungana	RTI International	Alternate Councilor	2011-2013	919-541-6601
Reshan Fernando	RTI International	Alternate Councilor	2011-2013	919-541-6730
Melissa Pasquinelli	NCSU	Alternate Councilor	2011-2013	919-515-9426
Keith Levine	RTI International	Past Chair 2012		919-541-8886
Kenneth Tomer	NIEHS	Past Chair 2011		919-541-1966
Marc ter Horst	UNC-CH	Past Chair 2010		919-843-5802
John Hines	RTI International	Past Chair 2009		919-541-6647
<b>Non-Voting Members</b>				
Melinda Box	Duke University	WebMaster		
Maurice M. Bursey	UNC-CH (retired)	<i>Ex Officio</i>		919-493-3025
Kenneth A. Cutler	NCCU	Project SEED, <i>Ex Officio</i>		919-530-6172
Stephen D. Cooper	RTI International	TCDG, <i>Ex Officio</i>		
Thomas M. O'Connell	UNC-CH	TMRDG, <i>Ex Officio</i>		919-483-1535
Michael C. Fitzgerald	Duke University	TAMS, <i>Ex Officio</i>		
Larry K. Krannich	Alabama Academy of Science	Director, District IV	2011-2013	