

Announcements and Events

Please check back often for the most recent happenings from the Alabama Local Section.

May 2016 Local Section Meeting -- Awards Banquet

The AACS awards banquet will be held on May 12th, 6pm at Nabeel's in Homewood. Dinner is \$15/pp for members and guests. Please reserve your seats by May 9th through the doodle

poll: <http://doodle.com/poll/bsz99f43avq8rtfz>

Venue: Nabeel's of Homewood.

Address: 1706 Oxmoor Rd, Homewood, AL 35209

Time: 6:00 pm dinner followed by recognition of High Chemistry Teacher of the year and ten (10) Chemistry Olympiad finalists and a speaker from Blondin Bioscience

The following are the 10 Chemistry Olympiad finalists and their respective high schools

Student	High School
Gabrielle Orr	Cullman HS
Katie Harbin	Cullman HS
Megha Tippur	Auburn HS
Rei Zhang	Auburn HS
Davis Tyler-Dudley	Indian Springs
Matthew Hamrick	Altamont School
Vivek Sasse	Altamont School
Andy Kong	Hoover HS
Wendy Jiang	Vestavia Hills HS
Sarah Zhao	Vestavia Hills HS

Local Section News

UAB SAACS is hosting Mad Scientist Day on May 17th. More information can be found at <https://www.uab.edu/news/student-experience/item/4657-uab-to-host-mad-scientist-day>

Our local section is now has a Facebook group page! Join the group by going to and request to join: <https://www.facebook.com/groups/1580462052282574/>

Spring Local Section Newsletter

The [spring Alabama Section Newsletter](#) is now available and contains a lot of information on happenings within our section. It also provides detailed information on our April 21st local section meeting.

April 2016 Local Section Meeting

The April 2016 Local Section Meeting will be an Earth Day event with Nelson Brooke, [Black Warrior Riverkeeper](#). He will talk about the impact of pollution on our lakes and rivers. So, mark your calendar for an April 21st evening meeting beginning at 6:00 pm in 130 Stephens Science Center, Birmingham-Southern

College. This is a FREE event and [Silver Coin](#) will provide us with some Indian cuisine. Please RSVP by 4/19 at:<http://doodle.com/poll/22tgqqqegb3t7ran>. If you need a map of the Birmingham-Southern College campus, [here is one](#).

2016 ACS Spring National Meeting Councilor's Report

The Councilor's report from the 2016 ACS Spring National Meeting in San Diego is now [available](#).

February 2016 Local Section Meeting

Our first meeting of 2016 will be on Tuesday, February 16th at 6 pm in Propst Hall, Room 314, at Samford University. Dr. Susan Pedigo, professor of chemistry from the University of Mississippi, will give a talk and demonstration on the chemistry of food. Dr. Pedigo will lead a discussion and demonstrations on the chemistry of French macaroons, croissants, and sourdough bread. She will also demonstrate how to make chocolate mousse in a blender! Sandwiches for dinner will be catered by [Newks](#), while baked goods to sample will be provided by the [Continental Bakery](#).

The event is FREE, but you need to RSVP by 2/12 at <http://doodle.com/poll/9b7nvzdrv225gyem>

See the [Newsletter](#) for details and Dr. Pedigo biographic information. A map of Samford's campus can be found [here](#).

To reach Propst Hall, enter the main gate of Samford from Lakeshore Drive. Turn right on Montague Drive. Propst Hall will be the first building on the right. Parking is available in a lot just past Propst Hall on the right or in the two-story parking deck at the top of the hill.

Alabama Local Section New Newsletter

We have a new quarterly Newsletter and you should have received it as an email attachment on February 3, 2016. A copy is available [here](#). Try your hand at suggesting a name for this Newsletter. Details are given in the [Newsletter](#).

Archived 2015 Alabama Local Section Announcements

October 2015 Local Section Meeting Discussion Details

"Climate Science – More than just a weather report!"

Dr. Tracy P. Hamilton

UAB Chemistry Building Room 101

Tuesday 6:30 pm PIZZA

7:00 pm Presentation and Discussion

QUESTIONS

What is the planet with the hottest average surface temperature?

Why is winter colder than summer?

Greenhouse gases are those which change dipole moment during a vibration. Why are oxygen and nitrogen not greenhouse gases?

What is the greenhouse gas that warms the earth the most?

In what ways has the greenhouse effect been directly observed?

Is there a pause in the rise of global temperature, or is it a Faux Pause?

etc. on to more advanced questions.

I hope to get groups of freshman to discuss these with more experienced science students and scientists to come up with the correct answers.

October 2015 Local Section Meeting

UAB Chemistry Building

Room 101

Oct 20, 2015

6:30 pm pizza

7:00 pm presentation and discussion

The theme for Chemists Celebrate Earth Day was "Climate Science – More Than Just a Weather Report!" Since we did not have a meeting on this issue, Tracy P. Hamilton will lead a discussion of the basics of climate science 7:00 pm on Oct 20 in the Chemistry Building at UAB, Room 101. There will be pizza and soft drinks at 6:30 pm. The format will be to pair ACS members with groups of undergraduates (upper division chemistry majors, graduate students, and general chemistry students). Questions will be asked, and groups will be asked to discuss, and then respond via electronic clickers which the undergraduates will be asked to bring.

COUNCILOR REPORT

The Councilor Report for the 250th National Meeting of the American Chemical Society (Fall 2015 in Boston, MA) has been [posted](#) to the website.

OFFICERS NEEDED

We need volunteers to run for office this fall. We have two volunteers who have stepped up for Secretary and Treasurer. Our Chair-Elect, Bob Galemmo at Southern Research, unfortunately had to move back to San Francisco. We wish him the best of luck, and are sorry that he has to leave us. Therefore we need someone to run for Chair-Elect and Councilor. Nominations can be made at the October meeting, by communicating with Morgan Ponder (mcponder at samford dot edu), or completing/submitting the online [Election Nomination Form](#).

Councilor's Report

The councilor's report from the Fall 2015 National Meeting in Boston is [now available](#).

Officer Nominations are Needed

We need volunteers to run for offices this fall! Please send names of candidates for Secretary, Treasurer, Chair-Elect and Councilor (don't be bashful, nominate yourself) to Morgan Ponder (mcponder@samford.edu). You can go to the [Election Nomination Page](#) and also submit nominees. We have a particular need for a Secretary and Treasurer to replace Corey Johnson and Brian Gregory, who have served for several years.

Chemists Celebrate Earth Day -- April 22, 2015

The theme for [Chemists Celebrate Earth Day](#) is "Climate Science – More Than Just a Weather Report!" [This flyer gives details](#) on a poem contest being sponsored by the Alabama Local Section. If you know of a K-12 teacher that would like to have their class participate, please let them know and give them the link to the flyer. There are \$50 prizes in four grade categories. The deadline for entries to be mailed is April 28.

May 2015 Local Section Meeting and Awards Banquet

May 12, 2015

Venue: Nabeel's of Homewood.

Address: 1706 Oxmoor Rd, Homewood, AL 35209

Time: 6:30 pm dinner followed by recognition of 50 year member (Jerry Lex Brown), High Chemistry Teacher of the year (Sybil Waters, Minor High School), and ten (10) [Chemistry Olympiad finalists](#), and a speaker.

Dinner Cost: \$15 for members who are not honorees or honorees' families. Please RSVP by noon, Friday, May 8th, using the [Doodle poll](#).

Speaker: Dr. James McClintock, world famous Antarctic Marine Biologist from UAB.

Short Bio:

McClintock received his Bachelor's degree from the University of California at Santa Cruz in 1978 and his Ph.D. from the University of South Florida in 1984. In 1987, after completing an NSF Fellowship at the University of California at Santa Cruz, he joined the faculty of the Department of Biology at the University of Alabama at Birmingham and is the Endowed University Professor of Polar and Marine Biology. McClintock discovered his professional passion while growing up along the Pacific Ocean in Santa Barbara, CA. His initial research focused on [echinoderm](#) (primarily sea star and sea urchin) nutrition, and reproduction in both the Pacific and Atlantic oceans. In 1982 he made his first scientific foray into the chilly Indian Ocean as a participant in the French Antarctic Research Program working at a research base on the sub-Antarctic island of [Kerguelen](#). The following two years, as a National Science Foundation Postdoctoral Fellow, McClintock continued his echinoderm studies in the freezing waters of Antarctica's Southern Ocean at the United States research station [McMurdo Station](#).

Since 1989 McClintock has led or co-directed annual scientific expeditions with the [United States Antarctic Program](#) (USAP) in which he and his research collaborators have become the world's authorities on Antarctic marine chemical ecology. This work, funded by NSF, has been conducted at the United States research facilities McMurdo Station (Ross Sea) and [Palmer Station](#) (Antarctic Peninsula). McClintock has published over 200 scientific publications, and co-edited and co-authored several books related to a multitude of aspects dealing with marine invertebrates. In 1998, the U.S. Geographic Board named [McClintock Point](#) on the north side of New Harbor, McMurdo Sound, Antarctica, in recognition of his contributions to Antarctic marine biology. In 1999 he became an elected Fellow in the American Association for the Advancement of Science.

Spring National ACS Meeting Councilor's Report

The Alabama Local Section's Councilor's Report from the Spring National AS Meeting is Denver is [now available](#).

March 2015 Meeting of the Local Section

[March 12, 2015](#)

Venue: Birmingham Southern College / [Building 9/ map](#) / in Executive Dining Room

Address: 900 Arkadelphia Road, Birmingham, AL 35254

Time: 6.15 PM to 7.00 PM social, followed by dinner and talk

Speaker: ACS tour speaker Dr. Mukund Chorghade.

Title: *Biomimiks™ as Chemosynthetic Livers: Predict, Prepare and Prove the Structure, Activity and Toxicity of Drug Metabolites*

If you plan to attend this event, please make dinner reservations by responding to the [Doodle poll](#)

Short Bio:

Dr. Mukund Chorghade is President of Chorghade Enterprises and Chief Scientific Officer, THINQ Pharma / THINQ Discovery, AGN Biofuels and Empiriko. He is also an adjunct research professor at Northeastern University and has appointments at Harvard and MIT. He provides synthetic chemistry and development expertise to pharmaceutical and biopharmaceutical companies. He also provides consultations on collaborations with academic, government and industrial laboratories. He advises technology based companies on process re-engineering and project management of technology transfer; establishes strategic partnerships and conducts cGLP/cGMP compliance training and implementation in chemical laboratories. He oversees projects in medicinal chemistry, chemical route selection, manufacturing and formulation of bulk actives to finished dosage forms.

Dr. Chorghade earned his B. Sc. and M. Sc. degrees from the University of Poona, and a Ph. D. in organic chemistry at Georgetown University. He completed postdoctoral appointments at the University of Virginia and Harvard University, visiting scientist appointments at University of British Columbia, College de France / Universite' Louis Pasteur, Cambridge and Caltech and directed research groups at Dow Chemicals, Abbott Laboratories, CytoMed and Genzyme. A recipient of three "Scientist of the Year Awards", he is an elected Fellow of the ACS, AAAS and RSC and has been a featured speaker in several national and international symposia. He is active in ACS, AAAS, RSC, was NESACS and Brazosport Section Chair and serves on numerous professional Scientific Advisory Boards and Committees.

Absract:

While biotechnological advances, genomics and high throughput screenings or combinatorial and asymmetric syntheses have opened new vistas in drug discovery, the industry is facing a serious innovation deficit. Critics suggest that “we have become high throughput in technology, yet have remained low throughput in thinking”, leading to a significant shift in favor of single to multi targeted drugs and affording greater respect to traditional knowledge. Knowledge and experiential database can provide new functional leads to reduce time, money and toxicity: Since safety of the materials is already established from traditional use track record, we undertake pharmaceutical development, safety validation and pharmacodynamic studies in parallel to controlled clinical studies.

Process Chemistry / Route Selection: The medicinal chemistry routes for synthesis are usually low yielding and are fraught with capricious reactions, tedious chromatography and problems in scale-up. Considerable research efforts have to be expended in developing novel, cost efficacious and scalable processes and seamlessly transferring these technologies to manufacturing operations. These principles will be exemplified by our process development efforts on a variety of pharmaceutical moieties such as anti-epileptic and an anti-asthma drug.

Several problems are currently associated with the use of biological systems in studying drug metabolism.

- In vitro studies produce very small quantities of the product. Primary metabolites are often hydrophilic and difficult to isolate.
- studies necessitate the sacrifice of animals and are extremely expensive to conduct. Liver slice preparations are of variable potency; it is difficult to quantitate the precise stoichiometry of the oxidant.

We present rare examples of porphyrin-mediated oxidations of sophisticated pharmaceutical entities. This approach affords an efficient method for the systematic preparation and identification of the entire spectrum of metabolites from a chosen drug.

UAB Student Chapter of ACS Host Meeting

The UAB Student Chapter of American Chemical Society is hosting an event known as *Chemistry on the Silver Screen* by Chemistry in a Box. This event will talk about how chemistry has influenced different aspects of entertainment such as *Breaking Bad*, *Battlestar Galactica*, *Gravity* and *Eureka*. The Event will be held at UAB in Room #507 of Ryals Public Health Building (RPHB) on February 24, 2015.

5pm will be the Networking

6 pm will be the Webinar

6:30 pm will be the Q&A session

Click to add text, images, and other content

February 2015 Local Section Meeting

The [Alabama Section of the American Chemical Society](#) would like to invite you to an evening with [Professor Elizabeth T. Papish](#). Dinner will be available (please [respond](#)).

Speaker: Professor Elizabeth T. Papish

Date: **February 12, 2015**

Venue: UAB Commons

900 South, 16th street, Birmingham, Al 35294

Time: **6:00-6:30 Social**

6:30 Dinner (dinner cost: Free for students and members)

7:15 Talk

Title: *Efforts to Split Water and Make New Anticancer Compounds*

Short Bio:

[Elizabeth T. Papish](#) was born and raised on Long Island in NY. She attended Cornell University, earning a BA degree in Chemistry in 1997, and thereafter she continued her education at Columbia University, earning a PhD degree in Chemistry in 2002. She has been a professor (teaching organic and inorganic chemistry) and has run a research group at Salisbury University, Drexel University, and since 2013 at the University of Alabama. Her research group studies bioinorganic and organometallic chemistry with an emphasis on designing new organic ligands for the use of transition metal complexes in energy related catalysis applications and for metal based therapies for health applications. She is the recipient of an NSF CAREER award and has been honored with the "Outstanding Research Mentor of the Year Award" at Salisbury University in 2007 and with the "College of Arts and Sciences Teaching Award" for excellence in teaching and mentorship from Drexel University in 2012. In 2013, Papish and her student received the "Division of Inorganic Chemistry Award for Undergraduate Research" from the American Chemical Society.

Abstract:

Organometallic compounds can be used for both water splitting for energy storage and for health related applications through the development of metal-based therapies. Both applications have relied heavily on the use of ligands that provide protic groups near the metal center. 6,6'-dihydroxybipyridine (6,6'-dhbp) is one such ligand that is used heavily in our group for these applications. Ruthenium, iridium and copper complexes of 6,6'-dhbp have been used for water oxidation, which is the challenging half reaction in water splitting. This talk will mostly focus on our recent work with copper, which shows that water splitting can be done with an abundant and cheap first row metal, but that the rates of water oxidation are slow when compared with iridium complexes. The same ligand, 6,6'-dhbp, also forms ruthenium complexes that have promising anticancer properties. These properties are modulated by pH, wherein the complex appears to more readily form the active drug species at lower pH as is typically found in cancer cells. Thus pH can impact the properties of 6,6'-dhbp complexes, and can lead to pH dependent changes in both water oxidation activity and anticancer properties.

There will be an element of trivia contest after the talk. Any group of four can participate

Please mark your calendar for our March Local Section meeting (March 12, 2015) with ACS tour speaker Dr. Mukund Chorghade.

If you plan to eat dinner at the meeting, please [respond](#). Select the table view tab, add your name to the list, and click the radio button to place a check by your name. If you prefer to cut and past the URL, please use: <http://doodle.com/xmgudqctigdi35z5#table>

September 2014 Local Section Meeting

When and Where: Wednesday, September 24, 2014 at 6 PM at Cahaba Brewing, 2616 3rd Ave. South, Birmingham, AL 35233

Our Speaker:

Bob Bates (Univ. Florida), Professor Emeritus, Food Science & Human Nutrition

"The Chemistry and Alchemy of Brewing"

Cost: \$5 Members, \$15 non-members, Students Free

Must be 21 to drink alcohol

BBQ dinner and 1 Beverage will be provided.

Please invite your students and any other people you think might be interested!

RSVP here <http://doodle.com/ue9c4pixykyq8xt4>

Councilor's Report from Fall 2014 National ACS Meeting

Our Councilor, Tracy Hamilton, has submitted his [report](#) from his attendance at the Fall 2014 National ACS Meeting in San Francisco

Archived Prior Newsletters

All prior Newsletters/Announcements for 2014 and 2013 are archived. These can be accessed on the [Newsletter Archives Page](#).

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