

TRIAD CHEMICAL TIMES



Central North Carolina Section American Chemical Society

March Section Meeting

Speaker: Dr. Jianmei Yu: “The chemistry of enzyme-based methods to reduce allergen level in peanuts”

When: Thursday, March 19, 2015

Where: NC A&T New Science Building Room 200

Time: Social: 6:30 to 7:00 pm Meeting: 7:00 pm

Upcoming Events

March 19, 2015 March Section Meeting at NCA&T Dr. Yianmei Yu: The chemistry of enzyme-based methods to reduce allergen level in peanuts”

March 27-28, 2015 North Carolina Academy of Sciences Annual Meeting, Winston-Salem (not an ACS event)

April 7, 2015 Silver Circle Meeting (see local section news for details)

April 14, 2015 15th Annual Poster Vendor Night, 3-7 pm, Syngenta Auditorium

Saturday April 18, 2015 9am to 12 noon Adopt A Stream Cleanup (see pg. XX for details)

April 30, 2015 April Section Meeting (at Wake Forest University)

May 14, 2015 May Section Meeting (at Stonefield Cellars Winery)

May 21, 2015 Triangle Chromatography Group Symposium, NC State



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March Speaker Bio and Abstract

Dr. Jianmei Yu received her BS in Chemical Engineering from Yunnan Institute of Technology (1986, China), MS in Food Engineering from South China University of Technology (1991, China), and Ph.D. in Food Science from Louisiana State University (1998).

Dr. Jianmei Yu worked as a postdoctoral fellow in University of Guelph, Canada from 1998 to 2000, as a food technologist in Guelph Food Research Center, Agricultural and Agri-Food Canada from 2001 to 2003. Dr. Yu joined North Carolina Agricultural and Technical State University in April 2003. She served as a Research Associate from 2003-2010, and has been a Research Scientist since 2010 in Food Science and Nutrition.

Dr. Yu's research interests include but not limited to food allergen reduction by post-harvest technologies, value added utilization of agricultural products, bioactive compounds and functional foods for human health and wellbeing, particularly, in obesity prevention.

Dr. Jianmei Yu is a well established and well-known research scientist. She has authored and co-authored 14 grant proposals and 12 of them were funded total 3.91 million dollars. She has published 22 peer reviewed articles in diverse and high impact journals and 5 book chapters since 2003. Her publications were highly cited by other researchers in food science and nutrition. Her research results were reported and covered by many news media including national and local televisions, web video, blogs, newspapers and featured magazines.

Her research in peanuts allergen reduction resulted in a US patent which is now successfully licensed to Alrgn Bio, Inc. This company will commercialize the hypoallergenic technology. This will bring hypoallergenic peanuts to the market soon.

Dr. Yu has strong skills in extraction, purification and separation technology. She is also good at many analytical techniques including chromatography, spectrometry, electrophoresis, immunoassay, PCR and wet chemistry analysis.

Dr. Yu is a member of several professional organizations. She also serves as an editor for International Journal of Agricultural and Biological Engineering, a member of grant proposal review panel for USDA-NIFA, and a technical reviewer of many scientific journals. She also served as a judge in student research competitions and community science fairs.

She has taught 3 food science courses (Food Chemistry, Food Analysis and Sensory Evaluation of Foods) in the Department of Family and Consumer Sciences, North Carolina A&T State University, served as an advisor and co-advisor of several graduate students, supervised 2 postdoctoral scholars, many undergraduate research assistants to conduct research. Her students presented their research results in many professional conferences.



Local Section News

Earth Day, April 18, 2015

As part of Earth Day, the CNC-ACS will be participating in the City of Greensboro's Great American Cleanup. Local section volunteers will be cleaning a section of stream from 9am to noon near the downtown Greensboro area. If you are interested in volunteering, please contact TJ Mayer at TJ.mayer@syngenta.com or 336-632-6079. The CNC-ACS stream is located between W. Smith Street and Guilford Avenue in downtown Greensboro. Parking can be found behind Westerwood Tavern- 508 Guilford Ave, Greensboro, NC 27401.

Later in the afternoon (1pm to 5 pm), Earth Day Celebrations sponsored by the City of Greensboro will continue at the Kathleen Clay Edwards Family Branch Library at 1420 Price Park Road in Greensboro. See the CNC-ACS local section website (<http://cnc-acssites.acs.org/>) for more details.

Silver Circle Meeting Minutes - 5 February 2015

Attending: Gail Webster, Rich Honeycutt, Ed Jaynes, Jr., Wid Painter, Cliff Bell, Debbie Pritchard, Eileen Kennedy, Doug Tsao, Bruce McKillican, Carol McKillican, Cynthia Williard, & Robert A. Yokley

Location: Syngenta (Room L-1094), 6:30 PM

The group dined on numerous tasty dishes prior to the start of the business portion of the meeting. The following meeting dates and activities were selected for the remainder of 2015:

April 7 (Tuesday) – Potluck dinner at Winston-Salem State University followed by a presentation by the Fulbright Scholar working in Prof. Maria Ngu-Schwemlein's laboratory (topic TBD).

June 19 (Friday) – The SC group will participate with the annual CNC-ACS picnic and bring lots of desserts.

August 16 (Sunday) – Cook-out at the home of Robert and Phyllis Yokley in Belews Creek. The menu will be decided at a later date but the focus of the meeting will be to start preparations for National Chemistry Week (NCW).

October 13 (Tuesday) – Potluck dinner at Syngenta followed by finalization of plans for NCW on October 25.

Other items discussed include:

Meetings in 2016 will commence in January and follow the "every two months" format.

Debbie Pritchard will perform chemistry demonstrations for a school near Pilot Mountain on 27 March. Bruce and Carol McKillican volunteered to assist.

Perform mentoring and tutoring with HS juniors and seniors (Debbie).

Solicit matching grants from industry to help students pay for their ACS memberships (Cynthia).

Conduct some type of activity to engage active ACS student members (Cliff)

Gail gave a short presentation to the group on how to establish and use a Tweeter account.

From: Allyn Howlett

Sent: Tuesday, December 02, 2014 10:09 AM

Subject: NC Academy of Science meeting March 28 2015 at Biotech Place WS NC

I have taken on the responsibilities to host the North Carolina Academy of Sciences Annual Meeting, to be held in Winston-Salem, North Carolina, March 27-28, 2015. The meeting will be at Wake Forest Biotech Place, which is at the Innovation Quarter, www.wakeforestinnovationquarter.com/ . I am contacting you because Our Local Arrangements Committee recommended that we reach out to SYNGENTA to provide an agricultural science and commercialization angle to the sessions. In addition, we are particularly interested in showcasing how chemistry can be utilized in the agri-business enterprise. The annual meeting is comprised of a series of one-hour "workshops" and lectures in the early (2:00-3:00) and late (4:30-5:30) afternoon Saturday March 28th. Your talk would be one of four concurrent sessions. The registrants would select which session they want to attend as they register, so we would be able to tell you the size of the audience as registration continues. Would you be willing and able to dedicate some time toward this during the afternoon of March 28th 2015?

DETAILS: The North Carolina Academy of Science meeting has a theme, determined by the host, and this year it is Innovation in Research. The membership is predominantly academic: faculty in most of the teaching-mission state institutions as well as the private colleges and universities throughout the state. The attendees at the meeting include faculty in the sciences and undergraduate students who will be presenting some of their undergraduate work. Attached is a synopsis of last year's meeting, to give you a flavor of the meeting. Because this would be at the level of general faculty and advanced undergraduate science majors who have done some research, this audience would be coming from all ends of the state, and you would be showcasing not only your company goals and accomplishments, but also the opportunities that a science major in the state might have in the workforce in this area.

If you would be willing to join us for the afternoon of Saturday March 28th, 2015, I would be very grateful. If you would like to discuss this with me, we could chat by phone to answer any queries you may have. Thank you for considering this invitation. For more information contact Allyn at: ahowlett@wakehealth.edu

Chemistry Olympiad is Coming



American Chemical Society

Central North Carolina Section
A Bakarr Kanu, PhD
Chair, Chemistry Olympiad Committee

January 11th 2015

THE 2015 NATIONAL CHEMISTRY OLYMPIAD

Dear Colleague,

As Chairman of the Olympiad Committee of the Central North Carolina Section of the American Chemical Society (ACS), I am pleased to announce that we will be participating in the 2015 U.S. National Chemistry Olympiad (USNCO). The primary goals of this program are to stimulate interest and achievement in chemistry among high school students throughout the United States and to provide recognition of outstanding young chemistry students, teachers, and schools.

Students competing in the USNCO are eligible to be selected as members of the United States team for the International Chemistry Olympiad (IChO). For the past thirty one years, the United States has sent a team of four students to compete with nations around the world at the IChO. The students participate in both theoretical and laboratory examinations over several days. Gold, silver, and bronze medals are awarded to the best performers, and the IChO provides students the opportunity to interact with their peers from other countries. This year the international event will be held in Baku, Azerbaijan, July 20-28, 2015.

My immediate task is to encourage you and your students to participate in this program. The identification of the four member U.S. team begins at the local school system level. It is the responsibility of the Central North Carolina local ACS section to nominate students from this area to take the USNCO national examination. In order to identify these students, we will conduct a preliminary screening of students with a special multiple choice examination prepared by the ACS committee. This examination will be administered on Thursday, March 26, 2015 at 9:30 a.m. at two sites this year: Winston-Salem State University (W.B. Atkinson Science Building) and Southwest Guilford High School, High Point and will last for two hours. Applicants can choose a center closer to their location to take local screening exam. The national exam will only be administered at Winston-Salem State University. Each school will be allowed to send 2 AP Chemistry students to take the exam. If there are spots available (for example, if some schools do not send students to take the exam), 2 additional students will be allowed to participate. Please submit 4 names, with the last 2 listed as alternates. There is no fee for taking the exam, but you must confirm by email and/or return the registration form by March 13, 2015. If you cannot participate or need to update your contact information, please complete the application form with your details and send to me.

I encourage your school to participate in this academic Olympiad. All students who participate will be recognized and presented with a certificate; some students receive recognition for outstanding performance in certain categories. We hope this recognition will serve to stimulate interest in chemistry and to promote a positive attitude toward chemistry.

Students who are chosen from the local level will also compete for the national spots by taking a lab practical and an additional, Advanced Placement type test (multiple choice and essay). This competition will be held at the end of April and more details will be announced later to those who are chosen to participate.

Thank you for helping us to promote chemical education in our beloved country.

Sincerely,

Dr. A Bakarr Kanu
Assistant Professor of Analytical/Forensic/Environmental Chemistry
+1 (336) 750-3199
kanuabb@wssu.edu

Keep Current on Local Section Events

Depending on your preference, you can keep up with local section events by the following:

Twitter:

The CNC-ACS is running two Twitter accounts. The first is @CNC_ACS and our name is Central NC ACS and is being moderated by Gail Webster. The second account is named PosterVendorNight, @PosterVendor_15 ; it is being moderated by Kathryn Gause.

Newsletter:

You can request to receive an electronic copy of the newsletter by contacting the editor, Bill Eberle at bill.eberle@syngenta.com

Website:

The local section website is at <http://cnc-acssites.acs.org/>.

Directions to NC A&T

From Winston-Salem: (40 East / North 85 Business)

Travel on Interstate 40 East to Greensboro. Once in Greensboro, continue on Business 85 North to Old Exit #127 , now exit 39 (Highway 29 North, Reidsville Exit). Take Exit 39 onto HWY 29 North. Remain on HWY 29 North for approx. four miles. Take the West Market Street / N.C. A&T University Exit. Once you exit, yield to the right on Market Street. At the second stoplight, turn right on Benbow Road. Proceed through one stoplight and campus (0.2 miles), turn left onto Sullivan Street (Aggie Stadium is on the right). The New Science Building (includes Dept. of Chemistry) is @300 feet before first stoplight on left of Sullivan Street.

From Charlotte (North 85 Business)

Travel on Interstate North 85 Business until you reach the city of Greensboro. Once in Greensboro, continue on I-85 North to Old Exit #127 , now exit 39 (Highway 29 North, Reidsville Exit). Take Exit 39 onto HWY 29 North. Remain on HWY 29 North for approx. four miles. Take the West Market Street / N.C. A&T University Exit. Once you exit, yield to the right on Market Street. At the second stoplight, turn right on Benbow Road. Proceed through one stoplight and campus (0.2 miles), turn left onto Sullivan Street (Aggie Stadium is on the right). The New Science Building (includes Dept. of Chemistry) is @300 feet before first stoplight on left of Sullivan Street.

From Durham (Business 85 S/40 W)

Travel on Business 85 South / 40 West to Greensboro. Once in Greensboro, take Old Exit #128 now exit 41 (Lee Street Exit). Bear right and continue on Lee Street approximately 2.7 miles. Turn right on Benbow Road. Proceed through one stoplight and campus (0.2 miles), turn left onto Sullivan Street (Aggie Stadium is on the right). The New Science Building (includes Dept. of Chemistry) is @300 feet before first stoplight on left of Sullivan Street.

For best parking

Proceed @ 300 feet past the New Science Building to the stop light (Lindsay Street), make a left onto Lindsay Street. Turn Left onto Laurel Street (the 1st street encountered). The first driveway on the left leads to the chemistry department parking lot. Once in the driveway, the chemistry parking spaces are located on the left as well as straight ahead and are reserved for general public use after 5:00 PM. The right side parking spaces of the driveway are reserved for Police dept. personnel. If necessary, look for the larger parking lot located on the right side of Laurel Street where original left turn was made.

15th Annual Poster Vendor Night

Poster Vendor Night (PVN) will be held on Tuesday, April 14th at Syngenta. PVN is a great opportunity to network and to showcase your research with other chemists in the Triad. Please contact Jill Tierney (tierney_j@bellsouth.net) or Kathryn Gause (Kathryn.gause@syngenta.com) for more information about presenting posters. We welcome all undergraduate, graduate, and industrial posters.

15th Annual Poster Vendor Night



Student poster awards \$\$\$

When: Tuesday, April 14th, 2015 from 3-7 p.m.

Where: Auditorium, Syngenta Crop Protection
410 Swing Road, Greensboro, NC

What: Posters (Academic + Industry), Vendors, Products

Door Prizes


Great Food

Networking

Trade Show

Please contact Jill Tierney (tierney_j@bellsouth.net, 336-430-8601) or Kathryn Gause (kathryn.gause@syngenta.com, 207-323-3704) for more information.

Additional info available at : <http://cnc-accsites.acs.org>

 Follow us on Twitter! @PosterVendor_15

Officer and Committee Head Contacts

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* National Chemistry Olympiad	Bakarr Kanu	kanuabb@wssu.edu	750-3199;
* Science Center Advisor	Jerry Walsh	jwalsh@uncg.edu	334-5672
* UNC-G High School Lab Day	Jerry Walsh	jwalsh@uncg.edu	334-5672
Earth Day	Bill Nell	williamnell@bellsouth.net	764-9322
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Membership	OPEN		
Minority Affairs	Julius Harp	harpj@ncat.edu	285-2239
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	Bill Eberle	bill.eberle@syngenta.com	632-7569
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* Poster Coordinator	Jill Tierney	tierney_j@bellsouth.net	430-8601
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Public Relations & Publicity	Doug Tsao	dtsao@maccordmason.com	
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Younger Chemists	OPEN		