



Welcome to the American Board of Applied Toxicology's 2017 Spring Newsletter

Your source for the latest
ABAT news and member updates

President's Note from Dr. Mark Winter

It was great seeing all of my toxicology friends in Boston. I was glad to see that, as a group, we continue to avoid the seven scary words in any field, toxicology included, "We have always done it that way." We continue to do research to help advance the treatment of a poisoned patient.

ABAT is growing as a group. We are changing, I believe, for the better. Over the past 2 years I have been watching and learning how to steer this austere group from my position of President-Elect. We had some of our group sail off into retirement but we have increased our numbers by the newest that have achieved the DABAT status. I was able to meet our newest candidates, watch them while proctoring their exams, and congratulated those that passed our rigorous examination process. I am truly encouraged that ABAT will continue onward and upward. These new DABATs are young, smart, and hard working. They are also dedicated to ABAT as an organization and have been eager to become involved in ABAT committees and projects. I can see fellowship status within the AACT in their futures.

The ABAT board has been working hard as usual. Currently ABAT board is hard at work writing the exams for our next hopeful future DABAT's, trying to increase the word to CSPI's, PhD's, nurses, and clinical pharmacists about a future opportunities within the AACT and ABAT. If you have been involved in one of the ABAT committees, I'd like to say thank you for all your hard work. If you haven't, please let myself or one of our board members know if you are interested in serving on one of our committees. We are always in need of your help. Our board of directors has also spent much time working with AACT updating our website, putting together a wonderful symposium at the national meeting, and of course, writing the ABAT exam, which would challenge any of our best candidates on a good day.

How many of you have checked into the new website? Even newborn babies have a few wrinkles, but we are working together with the AACT to smooth out those wrinkles. I commend all of the hours and hours and hours that were put in by the AACT/ABAT team to update our electronic image. Like anything new, there is a learning curve, but with this group, learning should not be an issue. If you have not done so, check out the new digs at www.clintox.org.

We each come from different practices, have different ideas, but we all have a common purpose- to preserve ABAT and make this the best professional organization we can. Whenever I get frustrated with life and think "what is the point?" I look out at what my fellow toxicologists are doing. I am always amazed at what they are accomplishing and it humbles me to be a part of this group. When I look over this newsletter and see all the publications, presentations, and awards, I can only think I need to get off my butt and get back to work.

Keep pushing the research! Dust off the passports and we'll see you in Vancouver!

New ABAT Members:

Nena Bowman



Nena Bowman, PharmD, is a clinical toxicologist, a Diplomate of the American Board of Applied Toxicology (DABAT), and the Managing Director of the Tennessee Poison Center with Vanderbilt University Medical Center. Nena also serves as an assistant professor at Lipscomb University College of Pharmacy. She recently graduated from a two year toxicology fellowship with the Utah Poison Control Center at the University of Utah in Salt Lake City, Utah. Nena graduated from Middle Tennessee State University with her bachelor's degree in biochemistry in 2010 and Lipscomb University College of Pharmacy with a doctorate of pharmacy in 2014. Her clinical projects include naloxone distribution, opioid overdose death prevention, and public education. Her clinical practice at the Tennessee Poison Center includes bedside toxicology consults, public and healthcare provider education, toxicology research, and telephone management of hospital and home poison cases. On a more personal note, she lives with her husband of 8 years, Will, and their spoiled nine year old black Labrador, Little Miss, in Smyrna, Tennessee. Nena grew up an hour south of Nashville in Lewisburg, Tennessee with two younger sisters. A fun fact about Nena: She loves the Day of the Dead and much to the chagrin of her husband, has a vast and continually growing sugar skull collection.

Jami Johnson



Dr. Jami Johnson is the newly appointed assistant director of the Oklahoma Center for Poison and Drug Information. She completed undergraduate coursework at the University of Oklahoma in Norman prior to completing the Doctorate of Pharmacy Program at the University of Oklahoma Health Sciences Center in Oklahoma City. Dr. Johnson worked as a Poison Information Provider at the Oklahoma Poison Center while completing her PharmD, which initially sparked her interest in toxicology. After completion of the PharmD program at OU, she moved to Jacksonville, FL in June of 2014 to complete the Clinical Toxicology and Emergency Medicine Fellowship Program at UFHealth-Jacksonville and the Florida Poison Information Center-Jacksonville. Upon completion of her fellowship, she relocated back to Oklahoma City to join the staff of the Oklahoma Center for Poison and Drug information as a Senior Specialist in Poison Information. Upon certification as a Diplomate of the American Board of Applied Toxicology, she was promoted to assistant director. She is also looking forward to teaching Clinical Toxicology at her alma mater as an adjunct assistant professor. She can be contacted @ jami-johnson@ouhsc.edu. BOOMER SOONER!

Update: We are pleased to announce that Jami is back at work and as full of life as ever after a health scare while running.

Kristin Bohnenberger



Kristin is originally from New Jersey and attended pharmacy school at Wilkes University. She completed a PGY-1 Pharmacy Practice Residency at UPMC Presbyterian-Shadyside in Pittsburgh, Pennsylvania. Thereafter she completed a Clinical Toxicology/Emergency Medicine Fellowship at the Florida Poison Information Center - Jacksonville at UF Health Jacksonville. She is currently an emergency medicine clinical pharmacist at Kingsbrook Jewish Medical Center in Brooklyn, New York. As a fun fact, Kristin was a gymnast for 15 years.

Matthew Stanton



Matt grew up in the Manitowoc, Wisconsin and went to UW-Madison for undergrad where he received a degree in Microbiology. He completed pharmacy school at Midwestern University in Glendale, Arizona where he was exposed to the world of toxicology by Richard Thomas, who taught their toxicology elective. From then on he knew he wanted to pursue the ABAT. As great as the weather was, he went back to Wisconsin to complete a PGY1 residency at Froedtert Hospital in Milwaukee. Matt stayed on as staff working in critical care for a couple years before he moved to the ER. Shortly after the ER, he started working at the Wisconsin Poison Center as a SPI where he met Doug Borys. In addition to answering the phones at the poison center, Matt is also a preceptor for pharmacy residents and students and tries to teach as much toxicology as possible. He's a contributing author on the Academic Life in EM University's Capsules series. With the few days a month he's not in the ER or poison center, he enjoys hunting, fishing, and Wisconsin sport teams (Go Badgers!). Matt dabbles in winemaking and guitar. He also has a greyhound named Neko.

Sara Lookabill



Sara was raised on a family farm in Scottsbluff, Nebraska. She graduated with her Doctor of Pharmacy at the University of Wyoming in 2012. She then completed a PGY1 Pharmacy Practice Residency at Detroit Receiving Hospital in Detroit, Michigan in 2013 and PGY2 Emergency Medicine Pharmacy Residency at CaroMont Regional Medical Center in Gastonia, North Carolina in 2014. In 2016, she finished my 2-year Clinical Toxicology Fellowship with the Carolinas Poison Center and the University of North Carolina Eshelman School of Pharmacy in Charlotte, North Carolina. Sara is currently the Emergency Medicine Research Fellow at Carolinas Medical Center in Charlotte, North Carolina. Her professional interests include the study of direct-acting cardiovascular toxins and antidotal therapy. Sara and her husband love going on "culinary adventures." She also enjoys the opportunity to try something new and just relaxing at home with their dog. She also enjoys participating in outdoor competitive sports with her brother and spending time with her family and friends.

Jamie Rosini



Jamie graduated from Philadelphia College of Pharmacy with her PharmD. She then completed PGY1 residency training at Christiana Care Health System in Newark, Delaware followed by specialized PGY2 residency training in critical care at Barnes Jewish Hospital in St. Louis, Missouri. She achieved board certification in pharmacotherapy and critical care pharmacy. Jamie is currently practicing as a clinical pharmacy specialist in emergency medicine at Christiana Care and serving as residency program director for the PGY2 critical care pharmacy residency program.

Alberto Augsten



Dr. Alberto Augsten, PharmD, BCPP, DABAT was born and raised in Miami, Florida. He completed his Doctor of Pharmacy at NOVA Southeastern University and his post-graduate training in psychopharmacology at Touro University under the mentorship of Paul Perry, PhD. Currently, Dr. Augsten is the Pharmacy Clinical Coordinator for Emergency Services and Behavioral Health at Memorial Regional Hospital in Hollywood, Florida. He is also the manager of the Long-Acting Therapy (LAT) Clinic, and the co-director of the Maternal Addiction Treatment (MAT) Program for Memorial Healthcare System. He's applied his toxicology expertise to develop innovative, pharmacy-driven programs focused on optimizing patient care through integrated approaches to treatment. He loves to share his expertise with the public, and is frequently interviewed by the local news on toxicology related matters. When he isn't working, he dedicates his time to his wife and children (usually in the amazing beaches of South Florida) and lives to play soccer with his two boys, Andres and Daniel.

William Eggleston



William (Willie) Eggleston is a Clinical Toxicologist at the Upstate New York Poison Center and an Assistant Professor at SUNY Upstate Medical University in the Department of Emergency Medicine in Syracuse, New York. He earned his PharmD from the Wilkes University Nesbitt College of Pharmacy and completed a two-year fellowship in Clinical Toxicology and Emergency Medicine at SUNY Upstate Medical University and the Upstate New York Poison Center. He is an avid triathlete, perpetual optimist, and connoisseur of fine chocolate milks. He will be starting as an assistant professor with the Binghamton University School of Pharmacy and Pharmaceutical Sciences in the fall.

Robert Seabury



Hi, my name is Rob and I was born and raised in a small town outside of Syracuse, New York. I work as an emergency department and intensive care unit pharmacist at Upstate University Hospital. Research is my primary professional passion and I have had the opportunity to be involved in a number of unique projects. I love Greek yogurt, exercise and wandering around random places. My grammar is not always the best but I try. Nice to meet everyone and hope you have a pleasant day!!!

Erin Pallasch



I am a Chicago native and received my PharmD from Midwestern University, Chicago College of Pharmacy. I have worked for the Illinois Poison Center for eons. When not working I enjoy relaxing and binge watching home improvement and culinary shows with my husband. I love spending time with family, riling up my nieces and nephews and then leaving them with their parents while I go home and sleep. I also like a change of scenery and will hop on a plane to just about anywhere in the world at a moment's notice- even though I have a dreadful fear of flying.

Lindsay Schaack



Lindsay grew up a beach bum on Tybee Island, GA. Although she loves going to the beach, she made the move up to a landlocked city for college. Lindsay attended the University of Georgia for both her undergraduate work and pharmacy school (Go Dawgs!). Upon completion of her PharmD degree, Lindsay moved to another landlocked city for residency, Atlanta, GA (the traffic isn't really that bad...). She completed a PGY1 at Grady Health System and then completed her toxicology fellowship with the Georgia Poison Center. Now, after many long, sleepless, emotionally draining days and nights, she can call herself a DABAT! Lindsay currently works as a clinical pharmacy specialist in an emergency department outside of Atlanta while also staying involved at the Georgia Poison Center. Aside from her love for toxicology and emergency medicine pharmacy, Lindsay also enjoys cooking, kickboxing, competing in runs, binge watching Netflix, and playing with her two dogs. During the fall and winter she loves watching football and hosting viewing parties. "It's been nice to have a little extra free time lately!"

Member Updates

Natalija Farrell was the recipient of the Emergency Department Most Valuable Consultant Award at Rhode Island Hospital. She has since changed jobs and is the Pharmacy Clinical Specialist Lead - Emergency Medicine & Toxicology and PGY2 Emergency Medicine Residency Program Director at Boston Medical Center.

Rick Spiller is still playing soccer - won two tournaments and lost two (hoping for a better year in 2017). He is also very interested in mercury recently. If you have any cases, please give him a call. As always, Rick is sporting an impressive list of publications (number 2 has five other ABAT diplomates co-authoring! Go ABAT).

1. **Spiller HA**, Good TF, Spiller NE, Aleguas A. Vitamin D exposures reported to US poison Centers 2000-2014: Evaluation of temporal trends and outcomes. *Human Exper Toxicol* 2016;35:457-461 PMID: 26519481
2. **Spiller HA**, Mowry JB, Aleguas A, Griffith JRK, Goetz R, Ryan ML, Bangh S, Klein-Schwartz W, Schaeffer S, Casavant MJ. An observational study of the factor Xa inhibitors rivaroxaban and apixaban as reported to 8 Poison Centers. *Ann Emerg Med* 2016;67:189-195 PMID: 26298448
3. **Spiller HA**, Strauch J, Essing-Spiller SJ, Burns G. Thirteen years of Oxcarbazepine exposures reported to US Poison centers: 2000 to 2012. *Human Exper Toxicol* 2016;35:1055-1059. PMID: 26612556
4. **Spiller HA**, Wiles D, Russell JL, Casavant MJ. Review of toxicity and trends in use of Tiagabine as reported to US Poison centers 2000 to 2012. *Human Exper Toxicol* 2016;35:109-113 PMID: 25825412
5. Onders B, Casavant MJ, **Spiller HA**, Chounthirath T, Smith GA. Marijuana exposure among United States children younger than six years old. *Clin Pediatr* 2016;55:428-436 PMID: 26054783
6. Burns G, DeRienzo RT, Baker DD, Casavant MJ, **Spiller HA**. Could chest wall rigidity be a factor in rapid death from illicit fentanyl abuse? *Clin Toxicol* 2016;54:420-423 PMID: 26999038
7. Davis MG, Casavant MJ, **Spiller HA**, Chounthirath T, Smith GA. Pediatric Exposures to Laundry and Dishwasher Detergents in the United States: 2013-2014 *Pediatr* 2016;137: DOI: 10.1542/peds.2015-4529 PMID: 27244825
8. Kamboj A, **Spiller HA**, Casavant MJ, Chounthirath T, Smith GA. Pediatric exposure to e-cigarettes, nicotine and tobacco products in the United States. *Pediatr* 2016;137(6):e20160041 DOI: 10.1542/peds.2016-0041 PMID: 27244861
9. Burns G, **Spiller HA**, Pruchnicki S, Siegel E, Casavant MJ. (2016) Acute renal failure and death after misuse of concentrated anhydrous caffeine as a pre-work out supplement by athletes. *J Clin Case Studies*. 1 (3) DOI <http://dx.doi.org/10.16966/2471-4925.114>
10. **Spiller HA**, Burns G, Casavant MJ. Reply to Using postmortem blood and urine norfentanyl/fentanyl ratios in the investigation of fentanyl-related deaths. *Clin Toxicol* 2016;54:894 <http://dx.doi.org/10.1080/15563650.2016.1199031>

Lee Cantrell has had several publications as well, the first 6 are journal articles and the last 6 are book chapters.

1. **Cantrell FL**, Nordt SP. In response to "A descriptive analysis of aspartate and alanine aminotransferase rise and fall following acetaminophen overdose". *Clin Toxicol (Phila)*. 2016 Jul;54(6):536.
2. **Cantrell FL**, Mallett P, Aldridge L, Verilhac K, McIntyre IM. A tapentadol related fatality: Case report with postmortem concentrations. *Forensic Sci Int*. 2016 Sep;266:e1-3.
3. **Cantrell FL**, Sherrard J, Andrade M, Schaber B, McIntyre IM. A pediatric fatality due to hydromorphone ingestion. *Clin Toxicol (Phila)*. 2016 Oct 24:1-3.
4. Chatham-Stephens K, Law R, Taylor E, Kieszak S, Melstrom P, Bunnell R, Wang B, Day H, Apelberg B, **Cantrell FL**, Foster H, Schier JG. Exposure Calls to U.S. Poison Centers Involving Electronic Cigarettes and Conventional Cigarettes — September 2010-December 2014. *J Med Toxicol*. 2016 Dec;12(4):350-357.
5. St-Onge M, Anseeuw K, **Cantrell L**, Gilchrist IC, Hantson P, Bailey B, Lavergne, V, Gosselin S, Kerns W 2nd R, Laliberté M, Lavonas EJ, Juurlink DN, Muscedere J, Yang CC, Sinuff T, Rieder MJ, Mégarbane B. Experts Consensus Recommendations for the Management of Calcium Channel Blocker Poisoning in Adults. *Crit Care Med*. 2016 Oct 3. [Epub ahead of print]
6. Lasoff DR, Koh CH, Corbett B, Minns AB, **Cantrell F**. Loperamide Trends in Abuse and Misuse Over 13 Years: 2002-2015. *Pharmacotherapy*. 2016 Dec 20. doi: 10.1002/phar.1885. [Epub ahead of print].
7. Cyproheptidine. FL Cantrell. *Poisoning and Drug Overdose, 7th Edition*, edited by K.R. Olson. New York, NY, McGraw-Hill Professional, 2016.
8. Folic Acid. FL Cantrell. *Poisoning and Drug Overdose, 7th Edition*, edited by K.R. Olson. New York, NY, McGraw-Hill Professional, 2016.
9. Thyroid. FL Cantrell. *Poisoning and Drug Overdose, 7th Edition*, edited by K.R. Olson. New York, NY, McGraw-Hill Professional, 2016.
10. Deferoxamine. FL Cantrell. *Poisoning and Drug Overdose, 7th Edition*, edited by K.R. Olson. New York, NY, McGraw-Hill Professional, 2016.
11. Deferoxamine as an Antidote. FL Cantrell. *Critical Care Toxicology: the Diagnosis and Management of the Critically Poisoned Patient*, 2nd Edition, edited by J. Brent. Elsevier Inc, Academic Press, 2016.
12. Thiosulfate as an Antidote. FL Cantrell. *Critical Care Toxicology: the Diagnosis and Management of the Critically Poisoned Patient*, 2nd Edition, edited by J. Brent. Elsevier Inc, Academic Press, 2016.

Kristin Engebretsen had a huge publication in Clinical Toxicology a few months back, one for which she is very proud. It is her passion. She had a PharmD help write it as her "thesis" paper and Kristin served as her mentor. The paper took a while to put together and also provided the opportunity to promote her interest in the field of toxicology.

Skoog CA, **Engebretsen KM**. Are vasopressors useful in toxin-induced cardiogenic shock? *Clin Toxicol*. 2017;55(4):285-304. PMID [28152638](https://pubmed.ncbi.nlm.nih.gov/28152638/)

She also had several grants:

2016 My Toxicology Fellow Ben Willenbring won the AACT Junior Investigator grant for his project "Identification of the mechanism of bupropion induced neurological and cardiovascular toxicity. I will be serving as his mentor on this project (as I am too old to get the grant myself :)

In addition to this grant, I received an additional grant to help provide more funding for Dr. Willenbring's study. This was funded through HealthPartners Institute for Research and Education and I serve as the Primary Investigator.

Finally I am proud to say that I brought a pharmacy student on board to work with Dr. Willenbring on his AACT research grant. She will be working as a co-investigator. She is interested in toxicology and was awarded a grant from the University of Minnesota College of Pharmacy which provided her with funding as a research assistant for this project. She was awarded the Melendy Scholarship for outstanding research application and leadership and I have the honor to serve as her mentor on this project. It is the first time I have been able to have my own paid research assistant for toxicology, but even more important, I was able to provide an opportunity to this student for funding to do toxicology research and the ability to work with a medical toxicology fellow to promote her interest in the field of toxicology.

Publications: (Book Chapter)/abstract

Engebretsen, KM. *Euglycemic Insulin Therapy*. In: Critical Care Toxicology 2nd Edition 2016.

http://link.springer.com/referenceworkentry/10.1007/978-3-319-20790-2_178-1

We presented this research at the last ACMT mid-year scientific meeting. Dr. Katzung was my last medical toxicology fellow and we won first place for her research/oral presentation. We are working on the paper now and hope to have it for you soon. Katzung K, Stellpflug S, LeRoy J, Boley S, Holger J, Engebretsen KM. "Randomized Controlled Study Comparing High Dose Insulin (HDI) to Vasopressors or Combination Therapy in Refractory Toxin-Induced Cardiogenic Shock (TICS); Awarded both Oral presentation and Poster Presentation, 2016 ACMT Annual Scientific Meeting, Huntington Beach, CA March 17-20, 2016.

Bryan Hayes became the first pharmacist to receive a faculty appointment (Assistant Professor) in the Department of Emergency Medicine at Harvard Medical School. He was also awarded fellowship status in the American Society of Health-System Pharmacists (FASHP). Finally, his work with the AACT Lipid Emulsion Workgroup resulted in 6 papers, including first-author on the systematic review of clinical adverse events (PMID 27035513).

Please send any member updates you'd like to share to Bryan Hayes at bryanhayes13@gmail.com.

Fellow of the American Academy of Clinical Toxicology

The AACT Board of Trustees wishes to recognize Academy members whose contributions are important to the Academy and to the field of clinical toxicology. Consequently the Board has created the designation of Fellow of the American Academy of Clinical Toxicology (FAACT) to honor those members whose contributions have been of significant benefit to the Academy, and advanced the field of clinical toxicology. Applications for FAACT status are reviewed by the AACT Fellowship Committee.

Fellow designation criteria require a minimum of four years of professional involvement in clinical toxicology, as well as four years of AACT membership. Current Fellowship criteria allow the years enrolled in a toxicology fellowship training program to count toward the required four years of AACT membership (if the fellowship enrollee is a member of AACT), as well as years in toxicology practice. Additionally, service to AACT-related activities at NACCT meetings, and service to the journal Clinical Toxicology are considered as AACT core services.

Any questions, contact the current Chair, Christine Stork at storkc@upstate.edu

Applications are due by June 1, 2017

<http://www.clintox.org/members/awardsachievements-career-development/fellows>

Christine M. Stork, PharmD, DABAT, FAACT

Associate Professor; Emergency Medicine, Medicine and Pharmacology
Upstate Medical University
Clinical Director, Upstate New York Poison Center

Career Opportunities

I'm emailing the list to let everyone know about a terrific opportunity: we have a full time faculty position at the University of Maryland School of Pharmacy and the Maryland Poison Center (MPC). Wendy Klein-Schwartz retired from the MPC after 39 years of service at the MPC and University of Maryland School of Pharmacy. We are now recruiting for that open full time faculty position.

Quick note about the MPC: we are a service program of the University of Maryland School of Pharmacy and have been at UMSOP since 1972. The MPC is physically located on the campus of University of Maryland Baltimore, along with the other professional schools (e.g., medicine, nursing, law, dentistry, social work and the graduate school). We are part of the Pharmacy Practice and Science Department. There are currently two faculty positions associated with the MPC (I occupy the other faculty position). Candidates would be expected to help support the didactic teaching offered by the MPC, as well as other department teaching needs. The MPC offers experiential training opportunities for not only UMSOP pharmacy students, but also for pharmacy and physician residents and fellows (e.g., ED, pediatrics, etc.) and others. It is expected that the candidate would participate in that experiential training programs of the MPC. The MPC also offers a two year, post PharmD fellowship training program. The candidate would be expected to participate in that fellowship program as well.

This position is a bit unusual for a poison center: being in a poison center, in a leadership position, but where the main focus of the job is on teaching, research, and service AND where there isn't a requirement to deal with funding!

If you would like additional information about the position, please let me know.

If you are interested in applying for the position, please contact the chair of the search committee:

Leah Sera, PharmD

Chair – Faculty Search Committee

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Thanks!

Bruce Anderson