



WELCOME TO THE **2014 FALL ABAT NEWSLETTER**

- WITH ALL YOUR LATEST NEWS

President's Note:

Hard to believe another year has flown by, and my term as president is already coming to an end! After this meeting, I will be handing the gavel to Kristin Engebretsen, who will continue the fantastic work that ABAT is doing. I would also like to thank Cynthia Morris-Kukoski, who has been a great teacher, friend, and advisor throughout my term – you are much appreciated!! I am looking forward to seeing everyone at the upcoming NACCT meeting in New Orleans, LA from October 17-21st, 2014!

ABAT Board 2014 Election Results:

The first item is to congratulate the successful candidates for office from our recent election. In case you haven't read your e-mails, here are the results:

Board Members: *Sal Baeza and Howard McKinney* are our two new board members. We appreciate your service to ABAT!

I would like to thank all of those who volunteered to run for office, especially those that did not get elected. We appreciate your willingness to serve ABAT. Please remember that it is your responsibility to make sure that your e-mail address is up-to-date with both ABAT *and* the AACT office. The AACT office e-mail list is used to send out election information. You also need to make sure that you can receive surveys from survey monkey or give us an alternate email address that can take survey monkey so you can vote.

2014 NACCT meeting in NEW ORLEANS, LA:

ABAT Booth: WANTED-- BOOTH VOLUNTEERS!!!!

ABAT will again having a booth at the NACCT meeting this year right next to the AACT booth. If you are interested in working at our booth, please email me at: ABATpresident@clintox.org or spg4@cdc.gov.

The following dates need coverage:

Sunday 10/19 9:30am-10:30am – Ann and Jan

Monday 10/20 2:30pm – 3:30pm

Tuesday 10/21 10:00am – 11:00am

ABAT Examination:

We have 9 candidates that have verified that they will be sitting for the examination this year.

ABAT Essay Examination Part I Friday October 17, from 12:00 noon – 6:00pm (Esterwood).

ABAT Multiple-Choice Examination Part II Saturday October 18, from 8:00am – 1:00pm (Esterwood).

AACT Board Meeting 2014: Friday September 17, from 8:00 am to 5:00 pm (Nottoway)

ABAT has been asked to update AACT on all of the activities that we have been doing this year. We are all aware that ABAT is a standing committee of the American Academy Clinical Toxicology and not an independent not-for-profit organization. As such, we are honored that ABAT has been invited to present some of our accomplishments, short-term

and long-term goals at the upcoming AACT Board Meeting. I am looking forward to discussing our recent accomplishments and future direction.

ABAT Board Meeting 2014:

Due to the amount of work the board is reviewing and the number of examinations the board will be correcting, the board will again be meeting over a two day period again this year. I am looking forward to providing the membership with some updated information on all of the hard work the board and its committees have been up to this year at the ABAT Annual Business Meeting.

ABAT Board Meeting Part I Friday October 17, from 5:00pm to 9:00pm (Edgewood)

ABAT Board Meeting Part II Saturday October 18, from 8:00am to 4:00pm (Edgewood)

ABAT Symposium: Sunday, October 19, from 4:15pm to 5:15pm (Waterbury Ballroom)

Our Scientific Affairs committee (Co-Chaired by Mark Winter and Fred Aleguas) has organized the symposium titled, "Clinically Relevant Herb-Drug Interactions: Past, Present, Future". The symposium speaker is Bill Gurley, PhD, Professor of Pharmaceutical Sciences at the University of Arkansas for Medical Sciences, Little Rock, AR.

ABAT Business Meeting and 6th Annual Toxicology Residents/Fellows Reception:

Tuesday October 21, from 11:00am to 12:30pm [ABAT members only] & from 12:30-2pm at the ***New Orleans Pharmacy Museum, 514 Chartres St.*** I am encouraging all Diplomates who are attending this year's NACCT meeting to attend the ABAT business meeting. We will be handing out 2 new ABAT Candidate certificates at the 2014 business meeting: Patrick Aaronson and Stephanie Hon. Please join us in welcoming the toxicology residents/fellows immediately following the business meeting; assorted hors d'oeuvres and beverages will be served.

If you have any issues that you would like brought up at the ABAT business meeting, please let us know. It has been my honor and privilege to serve as the current ABAT President. Under the direction of our very active board members, I feel confident that ABAT will continue to move forward with its educational and recruitment efforts.

Susan E. Gorman, PharmD, MS, DABAT, FAACT
President, ABAT

ABATpresident@clintox.org or spg4@cdc.gov

ABAT New Accomplishment Updates:

- Bryan Hayes was awarded FAACT status this last year. Congratulations and we look forward to seeing you at the FAACT celebration at NACCT in New Orleans this year.
- Kristin Engebretsen was promoted from Clinical Associate Professor to Clinical Professor at the University of Minnesota College of Pharmacy.
- Cynthia Morris-Kukoski was the recipient of the 2014 Laboratory Division Annual Award of Excellence for her hair/ cocaine research.
- Ed Krenzeloek was awarded Fellow in the EAPCCT. Way to go Ed for being recognized as an internationally leading Toxicologist! Something for all of us to strive towards.
- Dawn Sollee gave a lecture on Synthetic Drugs of Abuse at the FSHP Annual Meeting in Orlando, FL on August 9th, 2014.
 - From our fellowship: Dr. Jessica Rivera graduated and is now employed as an ER Pharmacist in Nashville, TN. The new first year fellow is Dr. Jami Johnson. She graduated with her Doctor of Pharmacy from the University of Oklahoma.
 - Past graduate, Dr. Rachel Schult (2013) will be giving a lecture on Treating Illicit Drug Intoxications in the ED at ACCP on Monday, October 13th, 2014.

ABATs working double duty in AACT:

- Christine Stork – was re-elected for second term on AACT Board of Trustees
- Maria Mercurio-Zappala -was re-elected as AACT Secretary
- Ruddy Rose – was re-elected as AACT Treasurer
- Rob Palmer – elected AACT President-elect, beginning at NACCT 2014 in NOLA
- Karen Simone – will move from AACT President-elect to AACT President at NACCT 2014 in NOLA

This is fantastic! Not only does it say what a wonderful job our ABATs have done (as they were re-elected) but that we have a very strong ABAT presence in AACT both now and upcoming in the future. Thank you so much for your extra time and work!!!

ABAT Publications (June 2014-Sept 2014)



Other ABATs may be listed on the publication but the person who reported the publication gets the credit. Greatly appreciate those who responded to the request for information –otherwise I'd have nothing to report!

Lee Cantrell:

- Thornton SL, Darracq M, Lo J, Cantrell FL. Castor Bean Seed Ingestions: A State-wide Poison Control System's Experience. Clin Toxicol (Phila). 2014 Mar 2. [Epub ahead of print]
- Cantrell FL, Lucas J. Suicide by Non-Pharmaceutical Poisons in San Diego County. Clin Toxicol (Phila). 2014 Mar;52(3):171-5.
- Darracq MA, Toy JM, Chen T, Mo C, Cantrell FL. A Retrospective review of isolated gliptin-exposure cases reported to a state poison control system. Clin Toxicol (Phila). 2014 Mar;52(3):226-30.
- Cantrell FL, Ogera P, Mallett P, McIntyre, IM. Fatal Oral Methylphenidate Fatality with Postmortem Concentrations. J Forensic Sci. 2014 May;59(3):847-9.
- O'Connell CW, Schneir AB, Hwang JQ, Cantrell FL. Phenibut, the appearance of another potentially dangerous product in the United States. Am J Med. 2014 Aug;127(8):e3-4.
- Stevenson JW, Minns AB, Smollin C, Albertson TE, Cantrell FL, Tomaszewski CA, Clark RF. An Observational Case Series of Dabigatran and Rivaroxiban Exposures Reported to a Poison Control System. Am J Emerg Med. 2014 Apr 30. [Epub ahead of print]
- Cantrell FL, Clark RF. More on Nicotine Poisoning in Infants. N Engl J Med. 2014 Aug 28;371(9):880.

Bryan Hayes:

- Grover B, Hayesy, BD, Watson K. Feedback in clinical pharmacy education. Am J Health Syst Pharm 2014; 71(18): 1592-6.

Cynthia Morris-Kukoski:

- Morris-Kukoski, CL, Montgomery, MA, Hammer RL: Analysis of Extensively Washed Hair from Cocaine Users and Drug Chemists to Establish New Reporting Criteria. *Journal of Analytical Toxicology* Epub 6 Aug 2014.

Ed Krenzelok:

- Cobaugh DJ, Gainor C, Gaston CL, Kwong TC, Magnani B, McPherson ML, Painter JT, Krenzelok EP. The Opioid Abuse and Misuse Epidemic: Implications for Pharmacists in Hospitals and Health Systems. *Am J Health-Syst Pharm*. 2014;71:e82-97. (early online)
- Krenzelok EP, Reynolds KM, Dart RC, Green JL. A model to improve the accuracy of US poison center data collection. *Clin Toxicol*. 2014;52:DOI: 10.3109/15563650.2014.953169. (early online)
- Bohnenberger KA, Krenzelok EP. Retrospective Review of Trend in Modafinil Overexposures Reported to American Poison Information Centers. *Asia Pacific J Med Toxicol*. 2014;3:50-54.

Henry Spiller:

- **Spiller HA**. A case of fatal ingestion of a 10% benzalkonium chloride solution. *J Forens Toxicol Pharmacol* 2014 Accepted Jan 2014;3;1 [http://dx. doi: 10.4172/2325-9841.1000113](http://dx.doi.org/10.4172/2325-9841.1000113)
- Hayes H, **Spiller HA**. Toxicity of fluoropolymer resins. *Clin Toxicol* 2014;52 (accepted – in press)
- Smith MD, **Spiller HA**, Casavant MC, Chounthirath T, Brophy T, Xiang H. Out-of-Hospital Medication Errors Among Children Younger than Six Years of Age in the United States, 2002-2012 *Pediatr* 2014 (accepted – in press)
- Brophy T, **Spiller HA**, Casavant MC, Chounthirath T, Smith MD, Xiang H. Medication Errors reported to US poison Control Centers, 2000-2012, *Clin Toxicol* 2014 (accepted – in press)
- Wiles DA, **Spiller HA**, Casavant MJ, Russell J. Toxicity of anti-diarrheals: a retrospective study of loperimide toxicity 2000-2011. *J Pharmacol Toxicol Sci* 2014 (accepted – in press)
- Valdez AL, Casavant MJ, **Spiller HA**, Chounthirath T Xiang H, Smith GA. Pediatric Exposures to Laundry Detergent Pods. *Pediatr* 2014 (Accepted – in press)
- Russell JL, Wiles DA, Kenny B, **Spiller HA**. Significant chemical burns associated with dermal exposure to laundry pod detergent. *J Med Toxicol* 2014 (Accepted – in press)
- Russell JL, Casavant MC, **Spiller HA**, Mercurio-Zappala M. Clinical Effects of exposure to DPP-4 inhibitors as reported to National Poison Data System *J Med Toxicol* 2014;10:152-155 DOI 10.107/s13181-014-0383-6
- Wiles DA, Yee J, Castillo UF, Russell J, **Spiller HA**, Casavant MJ. A lethal case of DEET toxicity due to intentional ingestion. *J Anal Toxicol* 2014 (accepted – in press)
- **Spiller HA**, Russell JL, Casavant MJ, Ho RY, Gerona RR. Identification of N-Hydroxy-para-aminobenzoic acid in a cyanotic patient after benzocaine exposure. *Clin Toxicol* 2014 (accepted – in press)

Poster presentations at NACCT

- **Spiller HA**, Gerona R, Casavant MJ, Wiles D, Russell J, Ho RY. Identification and Quantification of the reactive metabolite n-hydroxy-para-amino-benzoic acid in a cyanotic patient after benzocaine exposure.
- Strauch J, **Spiller HA**, Huffman RM. Retrospective review of Oxcarbazepine toxicity.
- Wiles DA, Yee J, Castillo UF, Russell J, **Spiller HA**, Casavant MJ. A lethal case of DEET toxicity due to intentional ingestion.
- Wiles D, **Spiller HA**, Hayes H, Russell J. Toxicity of and trends in use of tiagabine: 2000 to 2013
- Goetz R, Casavant MJ, **Spiller HA**, Behrman A. Survey of US Poison Center Surge Capacity Planning
- Russell JL, Wiles, DA, **Spiller HA**, Casavant MJ, Ryan ML, Webb A, Buehler M, Lintner C, Anderson K, Weber J. Effects of Amiodarone ingestion as reported to seven regional poison centers.
- **Spiller HA**, Casavant MJ, Ryan ML, Mowry JB, Lintner C, Benitez JG, Weber J, Nolte TW. Changing trends in call routing to 8 regional poison centers

ABAT Committee Updates:

Education Committee:

The ABAT Education Committee is now chaired *by Bryan Hayes* and will oversee the following subcommittees

- ABAT Education Module subcommittee:

The ABAT Education Modules are headed and overseen by Adam Wood and are making great progress. Currently 24 of the 31 modules are done or under review. Our first module expected to be released is opioids. AACT is currently reviewing these modules and how they will be best served. We hope to have a good outline of their use in the near future.

Currently the education/module committee is still developing and reviewing modules for eventual release. If interested, we still need willing volunteers to author the following modules: NSAIDs, pesticides, and anti-infectives. Also, if you are willing to review any modules including such exciting topics as toxic alcohols, heavy metals, and psychotropics please let Adam know at AdamWoodRx@gmail.com.

- Life-Long Learning subcommittee:

The committee has already seen great accomplishments. Michelle Kanter is in charge of overseeing the Webinars. Our 5th ABAT/AACT Journal club webinar was held on September 15th and had a fantastic turnout with 81 participants. Dr. Paloucek and Dr. Awad gave not only a very interesting but very relevant review of the literature on Treatment of Withdrawal, Then and Now, with the Emphasis on Phenobarbital.



Stephanie Hon and Patrick Aaronson are already working hard and have selected 3 articles and developed questions for LLSA articles for ABAT. Thank you!!! If you are interested in helping on the Life-Long Learning Committee or in presenting for an upcoming Webinar, please contact Michele Kanter at mkanter@cookcountyhhs.org. Recorded journal club webinars are available for viewing at www.clintox.org and enduring continuing education credit is available. Pharmacists can earn up to a maximum of 1.0 continuing education credit hours from this program. Physicians can earn up to a maximum of one (1) AMA PRA Category 1 Credit. Sharon Ternullo is in charge of CE for the Journal clubs. If you have any questions on CE, please don't hesitate to contact her at ternullo@findlay.edu

- ABAT Study Guide subcommittee:

Ilene Anderson is chairing the study guide committee. The committee has amazing enthusiasm and energy and is progressing rapidly in its endeavors. The study guide committee completed the updated guide and it was approved by the ABAT Board. Future objectives include getting the updated study

guide posted on the website sometime in the near future. AACT now has a website over-site committee who will be helping to get this accomplished.

- Annual Toxicology Residents/Fellows Reception:

The Annual Toxicology Residents/Fellows Reception will be a grand event this year due to the hard work from Susan Skolly and Bryan Hayes.

The ABAT Business Meeting and Fellows Reception at the New Orleans Pharmacy Museum.

- ✓ When: Tuesday, October 21, 2014.
- ✓ Where: New Orleans Pharmacy Museum, 514 Chartres Street (www.pharmacymuseum.org).
- ✓ Time:

ABAT Business Meeting: 11:00 AM to 12:30 PM

ABAT Fellows Reception: 12:30 PM to 2:00 PM

ABAT invites members and guests to attend the annual Business Meeting and ABAT Fellow's Reception. This year we secured an off-site location for our meeting and reception at the New Orleans Pharmacy Museum. Step back into a time in pharmacy history before the mnemonics FDA, NDA, PDR and REMS were common jargon. Enter an era when a pharmacist's armamentarium included leeches, homeopathics and narcotics.

The Pharmacy Museum, located in the alluring Vieux Carré (French Quarter), houses the largest and most diverse pharmaceutical collection in a single location in the United States, containing old patent medicines, books, and pharmaceutical equipment dating back as far as the early 1800s.

Following the Business meeting, guests will have an opportunity to view the intriguing exhibits, which include peculiar homeopathic remedies, antiquated dental and surgical instruments, 19th century trade cards, pharmacopoeias, prescription files, daily journals and much, much more!

A light lunch and refreshments will be served in the Museum's enchanting courtyard, which contains a garden of herbs used for medicinal purposes in earlier years. Feel free to relax in the courtyard with ABAT colleagues and enjoy the afternoon. *Please RVSP for this entertaining event to Bryan Hayes, PharmD, FAACT if you have not done so already. See you there!*



This year's Toxicology Residency and Fellowships include:

Program	Program Director	Fellow	Completion Date	Email
Florida/USVI Poison Information Center	Dawn Sollee, PharmD, DABAT	Kristin Bohnenberger	6/30/2015	bohnenberger@poison.ufl.edu
		Jami Johnson	6/30/2016	jjohnson@poison.ufl.edu
		Jessica Rivera	6/30/2014	rivera@poison.ufl.edu
Georgia Poison Center	Gaylord Lopez, PharmD, DABAT	Lindsay Schaack	6/30/2016	lkschaack@gmh.edu
		Natalija Farrell		natalija.mead.farrell@gmail.com
The Maryland Poison Center	Wendy Klein-Schwartz, PharmD, MPH	Gina Stassinis	6/30/2016	gstassinis@rx.umaryland.edu
		Mingzohn Ellen Tsay	6/20/2014	tsay.ellen@gmail.com
Upstate Poison Control Center	Christine M. Stork, PharmD	William Eggleston	6/30/2016	egglestw@upstate.edu
		Robert Seabury	7/11/2014	seaburyr@upstate.edu
Utah Poison Control Center- University of Utah	Barbara Crouch, PharmD, MSPH	Amberly Johnson	6/30/2015	amberly.johnson@hsc.utah.edu
		Nena Bowman	6/30/2016	nena.bowman@hsc.utah.edu
Carolinas Poison Center	Anna Dulaney, PharmD	Sara Lookabill	8/31/2016	sara.lookabill@outlook.com

Please be sure to say hello and congratulate these new and upcoming toxicologists at the Annual ABAT Fellows Reception!! Also a special thank you to Tom Kearney who was the brains and energy behind the Annual Fellows Reception- which has grown to be one of our favorite events each year.

Scientific Affairs Committee:

- Mark Winter is working hard with create yet another scintillating ABAT Symposium. ABAT Symposium is scheduled **on Sunday October 19th from 1615 to 1715** and will be on "Clinically Relevant Herb-Drug Interactions: Past, Present, Future" **by Bill Gurley, Ph.D.**
- Dr. Gurley is a nationally recognized expert on herbal products. Dr. Gurley sits on the USP Expert Committee on Dietary Supplements and the Advisory Board of the American Botanical Council and is known to be a very engaging speaker. We look forward to his lecture.

The ABAT Board would like to request suggestions for future topics for upcoming ABAT symposiums. In the past the following topics have been covered.

- 1997: ACMT: Alternative Medicine Tox
AACT: Serotonin Syndrome
ABAT: Drugs of Abuse
- 1998: ACMT: Environmental Health Issues
AACT: Tox Terrors: HazMat
ABAT: Calcium Channel toxicity
- 1999: AACT: Forensic Toxicology
ACMT: Environmental Tox
ABAT: Bites, Stings, Plants

- 2000: ABAT: Evidence Based Medicine
AACT: Clinical Neurotox
ACMT: Medical Mistakes
- 2001: AACT: Occupational Pulmonary Toxic, Critical Care Tox, Tox Lab
ABAT: Mechanisms to Clinical Effects
- 2002: ACMT: Analeptic & Neuroleptics
AACT: Medicine Induced Syndromes
ABAT: Oximes in OP
- 2003: AACT: Cradle to Grave Issues
ACMT: Law & Order
ABAT: Gap between Science and Practice
- 2004: ACMT: Toxicology on Liver
AACT: Induced Liver Disease
ABAT: Ipecac
- 2005: AACT Radiation
ACMT: Dark side of Pharmacology
ABAT: Calcium antagonist OD
- 2006: AACT: Substance Abuse and Addiction
ACMT: Integration and Interaction of Medical Toxicology and other Specialties
ABAT: That's not MY drug screen and cleaning up of the 21st century love canal
- 2007: AACT: Remedies from Around the World
ACMT: Resolving Global Controversies in Medical Toxicology
ABAT: Voodoo in the 21st Century-RADIATION: Mechanisms, Detection and Treatment
- 2008: ABAT: Cutting Edge Medication Safety Update: Do Poison Centers and Clinical Toxicologists Have a Role?
- 2009: AACT: Navigating the New Age of Adverse Drug Reactions
ACMT: Through the Looking Glass: The Media's Perception of Medicine and Toxicology
ABAT: Momma Don't Take My Cytochrome Away
- 2010: AACT: Building Bridges in Toxicology: From Bench to Bedside
ACMT: Euphoria and Dysphoria
ABAT: Don't Tread on Me
- 2011: AACT: Reducing the Harm Caused by Abused Drugs: Putting Science into Public Policy
ACMT: Inside the Beltway and Beyond: The Intersection of Medical Toxicology & the Federal Government
ABAT: Drugs of Tomorrow & Challenges of Today: Synthetic Congeners
- 2012: AACT: Advanced Antidotes
ACMT: Vanity and Vice: Toxicology in the Sin City
ABAT: Evidence Based Practice: The Treatment of Rhabdomyolysis
- 2013: AACT: Adverse Drug Events: From Public Health to Molecular Mechanisms
ACMT: CSI Atlanta: Toxicology, Law Enforcement and Crime Scene Investigation
ABAT: Forensic Toxicology: Applied Quantitative and Qualitative Testing

If you have any suggestions for upcoming ABAT symposiums, please contact Mark Winter at mlwinter07@comcast.net



Mark Winter adding crushed dinosaurs to the fuel tank for the #4 engine on the Lone Star Flight Museum's Boeing B-17. One of the many duties of a crew chief to keep Thunderbird flying since she burns 50 gallons of gas per engine per hour of flight. How about that for an IV drip rate calculation?

Recertification Committee:

- Just a reminder, if you are up for recertification this year, you should contact Dawn Sollee (if you have not already). If anyone is interested in joining the recertification committee, please don't hesitate to contact Dawn at sollee@poison.ufl.edu. DABATs undergoing their first recertification can obtain a copy of the recertification application (for an example of the type of information required for recertification documentation) by contacting Dawn Sollee.

Announcements/Requests:

- ✓ Rick Spiller and his colleagues are continuing to work on the pathophysiology pathway of benzocaine induced MetHb. They have established the reactive metabolite *in vivo*, (see above publication list) but are in need of more cases with blood samples in the minutes right after the MetHb appears. If anyone is interested in helping out or has cases please contact Henry (Rick) Spiller at haspiller5@gmail.com.
- ✓ ABAT is looking for members who are interested in being part of the ABAT Education Committee. We are looking to form a special subcommittee of those who are interested in tackling the project of bringing awareness and education to EM Clinical Pharmacists, CSPIs and other possible organizations and their possible opportunity to become involved in ABAT. If you are interested, please contact Bryan Hayes at bryanhayes13@gmail.com



Booth Volunteers in Action in 2013!!



Dr. Jay Schauben and 8 generations of fellows from the Florida-USVI Poison Information Center-Jacksonville!!

*****See you in New Orleans!*****