



TOXTALK

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SOFT 2012 MEETING IN BOSTON

SOFT 2012
JULY 1ST-6TH 2012

Michael Wagner, Ph.D., Meeting Host

micawagn@iupui.edu

The SOFT 2012 Host Committee extends a warm welcome to all attending the Greater Boston area this July 1st – 6th. The 42nd Annual meeting conference hotel is the Marriott Copley Place located in the beautiful historic Back Bay area of Boston. As a result of a strong hotel reservation response, two overflow hotels (Sheraton and Fairmont) have been added to the conference housing resource. The Fairmont is the most recent addition to the hotel housing. We have included Fairmont's guest room block rates and reservation deadline. This information may also be found on SOFT 2012 Boston's website (www.soft2012.org).

The Host and Planning committee members are making final preparations for the program. Colleen Scarneo has worked with the Marriott food and beverage service personnel in bringing to life the taste of New England with a savory menu sure to entice the palate. Jennifer Limoges has coordinated a wonderful line up of workshops with international known guest speakers and lecturers. There are nine half-day and three full-day workshops scheduled for Monday and Tuesday. On Tuesday evening,



join us in the Exhibitor Hall for the Welcome Reception followed by the long standing "Elmer Gordon Open Forum" and finishing with the "13th Annual Nite Owl Event" sponsored by Cerilliant.

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WELCOME TO BOSTON! (CONTINUED)

On July 4th the conference has organized a unique schedule combining science with a celebration of our nation's birth. We will begin the day with our scientific session and guest plenary speaker Barbara Jean Magnani, PhD, MD Chair and Pathologist-in-Chief Department of Pathology and Laboratory Medicine Tufts Medical Center and Associate Chairman Department of Pathology Tufts University School of Medicine. After this will be the ERA presentations and then Marc LeBeau – SOFT President 2012 will end the morning session with an update on SWGTOX. July 4th Special Event – Museum of Science (MOS) and Fireworks on the Charles River will be the signature event of this year's meeting (and remembered for years to come). Attendees will have their afternoon free to enjoy ALL that Boston has to share - pace yourself! For a list of activities please visit the website (www.soft2012.org) or see the previous Tox Talk issue (March v.36 issue 1, 2012). Transportation of SOFT attendees via bus will embark for the MOS at 6:30 PM that evening. It will be important to be ready at the hotel by this depar-

ture time. However, if individuals choose, we will have a walking map available. At the Museum of Science you will enjoy an "All-American" cookout with music and a broadcast of the Pops Orchestra followed by one of the most spectacular displays of fireworks imaginable. Your spirit of independence will certainly be alive this evening. Bring your cameras and video cams because you will want to be sure to share this with your friends and colleagues not in attendance.

The Scientific Session continues on Thursday and will finish Friday afternoon. Loralie Langman and Albert Elian scientific session coordinators have been working diligently with their team of reviewers coordinating 47 platform speakers and over 75 posters. Poster sessions will be shared with exhibitor space over an expanded time frame, emphasizing interactions between vendor's innovative scientific products and attendees. Following our scientific sessions and business meeting is the annual presidential banquet, offering a unique dining experience as only Boston cuisine can do. Music and dancing rounds out the night's activities with entertainment provided by one of Boston's premier bands – BeanTown. This ten-piece band will be covering the styles of Classic Rock, R & B, Motown and contemporary tunes from the 60's - 90's.

Finally, I would like to take this opportunity to thank the host and planning committee for all the dedication and hard work they've done to make this a successful meeting. As everyone knows, this is not a one man show; it takes a team of committed (albeit crazy)

individuals working furiously while still balancing their daily obligations. That being said, I could name everyone on the committee but I'd like to highlight a few: Bonnie Fulmer whose steadiness and endless resource of meeting preparation knowledge is a must for anyone preparing to take on this task; Brad Hepler for his guidance, mentoring and financial insights; Julia Pearson and Pete Stout for their coordination of the exhibitors with just the right amount of push and pull; Jennifer Limoges for her detailed efforts in coordinating one of SOFT's most important training events - the workshops; Loralie Langman and Albert Elian for their dedication to the organization and reviewing (and coordinating reviews) of the abstracts and posters submissions; Frank Wallace for the AV work he does every year on-site; and Colleen Scarneo (co-host) for her creative ideas, attention to detail (coordinating pre-site visits) and support. Finally, I would like to thank P (my wife) for her support and understanding during this very time consuming task. You are my angel....





PRESIDENT'S MESSAGE

Submitted by *Marc LeBeau, Ph.D., DABFT*

"Neither a wise man nor a brave man lies down on the tracks of history to wait for the train of the future to run him over" – Dwight Eisenhower

One of my favorite quotes comes from former U.S. President and Five-Star General, Dwight Eisenhower. "Ike" felt that "neither a wise man nor a brave man lies down on the tracks of history to wait for the train of the future to run him over." This quote is of particular interest for SOFT these days because significant changes in the forensic sciences are a reality of our immediate future. Therefore, it is imperative that we don't lie down on the tracks, but instead stand up and ensure that those tracks are leading us in the right direction. And this is where the Scientific Working Group for Forensic Toxicology (SWGTOX) plays a key role.

SWGTOX was established by the Forensic Toxicology Council (FTC) in 2010 as a body to help guide the field of forensic toxicology in the right direction. Scientific working groups are not new. In fact, they have been in existence for more than 15 years for most of the other forensic disciplines. Why was the toxicology train late to leave the station and form a SWG? Well this was primarily because of similar efforts already in place within SOFT and our sister organizations. For example, most are familiar with the *SOFT/AAFS Forensic Toxicology Laboratory Guidelines* that serve as a roadmap for our laboratories to operate. The guidelines help ensure some consistency within our laboratories, yet they were not developed or vetted in a manner that

was as thorough as the ways in which the SWGs operate. That is not a suggestion that the guidelines are inadequate or inferior. However, as Eisenhower stated, they are the "tracks of history" and we need to ensure that we continue to improve our field for the future. And SWGTOX is trying to do just that.

The mission of SWGTOX is to develop and disseminate consensus standards for the field of forensic toxicology. This includes creation of minimum standards in our practices, education and training requirements, as well as accreditation and certification. The group has also identified areas where research and development should be focused. Further, the standards that SWGTOX is drafting are meant to apply to both the traditional areas of forensic toxicology, as well as areas that seem to be ignored at times – such as breath alcohol testing and court-mandated testing. Simply put, SWGTOX is laying track over new terrain that will ensure the train of the future leads to our field's success.

You should know that the membership of SWGTOX is well aware of the influence that the standards will have on our field. Therefore, operating bylaws were developed that ensure that you all have a voice in establishing these standards, regardless if you are a current SWGTOX member or not. Part of the process to move a standard to its "approved" phase is to send

the draft document out to the members of SOFT and other related professional organizations for a 60-day comment period. This is your opportunity to voice your suggestions, comments, and opinions before a standard is finalized. In fact, as this issue of ToxTalk is released, there are a number of SWGTOX documents in this phase, waiting for SOFT members to take advantage of the opportunity to be part of the process and comment on draft documents. Keep in mind that every persuasive comment received during the 60-day comment period must be taken into consideration before a standard is finalized.

To date, there has been just one SWGTOX document that has made it through this thorough, demanding process – the *SWGTOX Standard for Developing a Guide and Code of Professional Conduct in Forensic Toxicology*. This document requires a professional forensic toxicology organization, such as SOFT, to establish a Code of Professional Conduct, have procedures to enforce the code, and ensure its members understand the code and the procedures of enforcement. That is why we published the *SOFT Code of Ethics* and the *Guiding Principles of Professional Responsibility* in the March 2012 issue of ToxTalk and why you will find *SOFT's Ethics Procedures* later in this issue.

I know that Robert Middleberg, the SWGTOX Chairman, will be

PRESIDENT'S MESSAGE (CONTINUED)

more than happy to discuss any questions or concerns you have about SWGTOX. You can also read his update on SWGTOX activities later in this issue of ToxTalk. I hope it is obvious that SOFT fully supports SWGTOX and its mission. I ask that you do, as well.

In closing, I would like to thank you for being a member of the Society of Forensic Toxicologists and I invite you to join us for the annual meeting in Boston this year. Michael Wagner and his team are doing a fabulous job of ensuring we all have a rewarding week. I am really looking forward to celebrating the July 4th holiday with so many friends, so I hope to see you there.

Marc LeBeau, Ph.D., DABFT

President



TREASURER'S REPORT

Submitted by Peter Stout, Ph.D., DABFT

The 2011 year for SOFT was a very successful year. This year we completed an external review of SOFT's finances by Osborn Parsons and Rosaker. This is part of an ongoing plan for regular reviews and audits of SOFT's finances. This review produced a report that indicated SOFT's finances are in good order with no significant issues. This report was provided to the audit committee.

I am also happy to report that the very successful 2011 SOFT Annual Meeting in San Francisco, CA. The meeting had a net of approximately \$290,000. This meeting was very well attended and we had substantial exhibitor support of the meeting. This net revenue has allowed the board and the 2012 Boston meeting planning committee to plan for several items affecting the 2012 budget. First, understanding that the Boston meeting is in a very expensive venue the meeting budget has a zero net revenue expectation. We also estimated a more conservative expectation of exhibitor support of the meeting. This also allowed for the exhibitor fees and the registration

fees to be reduced from original projections. The SOFT board voted to donate \$50,000 to the TIAFT emerging countries fund. The board has approved again that the Continuing Education Committee expenses as an expense of the Society and not a cost to be reimbursed to the society for regional meetings. This will help reduce the costs and barriers for regional continuing education events.

The ERA/YSMA awards are reduced this year, not because of a lack of funds but because we know already

that there were fewer submissions this year and a smaller number of awards for 2012. I would encourage members to submit ERA and YSMA nominations as we would like to fund more of the awards!

Another significant change in this year's budget is an increase in the SOFT office expenses because the board approved a well deserved raise for the SOFT office staff. Thank you Bonnie you are an indispensable part of SOFT.

Budgeted expenses for Professional Fees are reduced as we will

Account Name:	Balances
	04/12/2012
Operational Account	\$261,410
Reserve Account	\$100,400
ERA Account	\$187,316
Online Dues Account	\$72,457
Annual Meeting - Checking	\$194,890
Annual Meeting - Merchant	\$144,724
Leo DalCortivo Award Account	\$50,000
TOTALS:	\$1,011,197

Table 1 Account Balances as of April 12, 2012

TREASURER'S REPORT (CONTINUED)

not have an anticipated audit or review of the finances in this budget year.

This budget also includes an effort to make expected meeting expenses and revenues more transparent in the annual budget. As you can see the meetings are a significant financial undertaking. Also note that for 2011 we budgeted a \$21,000 operating deficit, which obviously was reversed by the significant net proceeds from the meeting. In 2012 we are again budgeting an operating shortfall (\$41,000), this is in part a reinvestment of the proceeds from the San Francisco meeting in the membership. Again by expecting zero net income from the meeting the planning committee was able to reduce the registration fees for the meeting in a very expensive city.

Table 1 provides a summary of the current account balances as of April 12, 2012. SOFT is financially secure. These accounts also include a new account for the gift from the Leo DalCortivo gift that President LeBeau has described. **Please keep in mind this is a snapshot of accounts which have a lot of activity with dues payments and meeting expenses.**

Finally, I would like to thank the membership for trusting the organization's finances to me this past year. It has been a very rewarding opportunity.

Peter Stout, Ph.D., DABFT

Treasurer

	2,011		2,012
INCOME	ACTUAL	BUDGET	PLANNED
SOFT Application Fees	4,380	2,000	3,000
SOFT Membership Dues	56,401	59,000	58,000
Late Fees (Dues)	260	250	250
ERA Donations	1,526	1,000	1,000
Annual Meeting Income	1,498,058	35,000	900,000
Mugs/Shirts/Memorabilia Sales	1,988	1,700	1,700
Silent Auction Proceeds	5,673	3,500	4,000
Interest Earned - ERA Account	625	900	700
Interest Earned - Reserve Account	338	500	400
INCOME TOTALS	1,569,248	103,850	969,050

	2,011		2,012
EXPENSES	ACTUAL	BUDGET	PLANNED
AAFS Midyear BOD Meeting Expenses	965	1,900	1,500
Bank and Credit Card Service Fees	2,747	6,000	3,800
Appreciation Gifts	1,221	1,000	1,200
CFSO Membership	10,000	15,000	10,000
Contract Labor		200	200
ERA/YSMA Awards	12,000	14,000	6,000
Internet Account Maintenance	587	900	900
Insurance	2,087	2,100	2,100
JAT Meeting Issue Expenses	6,847	8,000	7,000
Lease: SOFT Office Space	4,815	4,625	4,800
2011 Meeting expense	1,203,447	5,100	
2012 Meeting Expenses			900,000
2013 Meeting expenses			4,000
2014 Meeting expenses			1,000
SOFT Office Equipment	238	500	500
SOFT Office Supplies	1,899	5,000	3,000
Payroll Expenses	27,165	30,000	35,000
Postage/Shipping Expenses	2,814	2,000	3,000
Professional Fees: Accounting and legal	6,603	8,000	4,200
QuickBooks Online	588	600	600
SOFT Directory Printing	3,539	2,600	3,500
SOFT Logo Item Expenses	949	500	1,100
SOFT Officer/Committee Expenses	4,136	4,000	4,000
SOFT CONED committee expenses	0	5,000	5,000
Young Toxicologists Committee/SSEP	5,639	5,000	5,600
Software/Website Programing	4,350	1,500	4,000
State of DE: Incorporation Expenses	25	25	25
Survey Monkey	200	200	200
SWGTOX support	0	0	250
Telephone/Internet	1,170	900	1,800
ToxTalk	1,070	0	500
Website Hosting Expenses	476	500	500
EXPENSE TOTALS	1,305,575	125,150	1,010,275
NET INCOME	263,673	(21,300)	(41,225)



NOMINATING COMMITTEE OFFERS 2013 SLATE OF OFFICERS

Mission Statement:

The Nominating Committee shall provide a slate of officers and members-at-large of the Board of Directors to the Full Membership of SOFT at least thirty (30) days prior to the start of the Annual Meeting.

The President and Vice President serve one year terms, while the Secretary and Treasurer serve two year terms which expire in alternate years. Five additional Directors are elected for three year terms. If a Director cannot serve his/her entire term, an interim Director shall be named by the Board to serve the remaining term.

The 2012 SOFT Nominating Committee, comprised of Sarah Kerrigan, PhD (Chair), Graham Jones, PhD., DABFT, Christine Moore, PhD., DABCC respectfully submitted the following slate of Officer Nominations for consideration by the SOFT membership:

President

Dan Anderson, MS, FTSABFT

Vice President

Peter Stout, PhD, DABFT

Treasurer

Jennifer Limoges, MS, DABC

Director (3 year)

**Madeline Montgomery, BS,
FTSABFT**

Director (1 year)

William Anderson, PhD



**Dan Anderson
MS, FTSABFT, DABC
President
(one year term)**

A Toxicologist for over 21 years, Dan is currently the Supervising Criminalist/Toxicologist in the Forensic Science Laboratories of the Los Angeles County Department of Coroner in Los Angeles, CA. He has held a position as an adjunct professor at California State University-Los Angeles (2001-2005) where he taught the subject of Forensic Toxicology to students obtaining their Master's Degree, served as an instructor at the California Criminalistics Institute-Sacramento, CA (2002 & 2010) and at the Midwest Forensics Resource Center in Ames, IA (2008). Dan received a BS Degree from Colorado State University in Fort Collins, CO in 1988 and a MS in Forensic Science from the University of New Haven in West Haven, CT in 1990.

Dan has held affiliations with several professional organizations including the California Association of Toxicologists (CAT), American Academy of Forensic Sciences (AAFS), California Association of Criminalists (CAC), and Society of Forensic Toxicologists (SOFT). He has been very active in the organizations which includes being the SOFT Meeting Workshop Coordinator (Phoenix, 2008), SOFT Board of Directors (2008-2009), SOFT Secretary and Membership Chair (2010-

2011), Vice President (2012), SOFT ToxTalk Associate Editor (2001-present), SOFT Budget, Finance and Audit committee, SOFT Membership Committee, hosting seminars for CAT (2000 & 2006-2x) and CAC (2002), CAC Toxicology Study group Chair (1995-1997), CAT Quality Assurance Coordinator (2000-2007), CAT New Drugs Chair (2002-present), and CAT President (2005-2006). Dan is a Diplomat of the American Board of Criminalistics (1998), is certified as a Forensic Toxicology Specialist with the American Board of Forensic Toxicology (2007), and was the 2011 recipient of the American Academy of Forensic Sciences Toxicology Section Ray Abernethy Award for being an outstanding Forensic Toxicology Practitioner.

Dan has given many platform presentations, posters, and published articles in forensic toxicology whose topics include Bupropion, Fentanyl (Duragesic® Patch), Flecainide, GHB, Oxycontin®, Mirtazapine, Paroxetine, Quetiapine, Duloxetine, and Zaleplon. He has peer reviewed articles for the Forensic Science International, Journal of Analytical Toxicology (JAT), and Journal of Forensic Sciences (JFS). Lastly, Dan is on the JAT Editorial Advisory Board and served as the 2008 Special Editor of JAT.

As a firm believer of becoming involved and promoting research within the laboratory, Dan has mentored four members of his scientific staff who were awarded the SOFT Young Scientist Meeting

NOMINATING COMMITTEE (CONTINUED)

Award (2004, 2006, 2007, 2009) and two members who were awarded the AAFS Regional Award (2001 & 2005).



Peter Stout
PhD, DABFT
Vice President
(one year term)

Peter Stout, Ph.D. is a Senior Research Forensic Scientist in the Center for Forensic Sciences at RTI International (RTI), has more than 15 years of experience in forensic urine drug testing, postmortem toxicology, and human performance testing laboratories. He is a licensed Laboratory Director for New York and Tennessee. He has served as a Responsible Person of a federally certified urine drug-testing laboratory and as Director of a U.S. Navy Drug Screening Laboratory.

Dr. Stout is an active member of the Society of Forensic Toxicologists (SOFT) and is currently the treasurer, he is an American Academy of Forensic Sciences (AAFS) Fellow, and he is the past Chair of the Toxicology Section of AAFS. He has represented SOFT to the Consortium of Forensic Science Organizations (CFSO). Currently he is on the North Carolina Forensic Science Advisory Board. He also serves as a laboratory inspector for the National Laboratory Certification Program (NLCP) (Substance Abuse and Mental Health Services Administration [SAMHSA]) and for the American Board of Forensic Toxicology (ABFT).

At RTI, he has served as the Project Leader for the Pilot Oral Fluid Performance Testing Program

(SAMHSA) and as key personnel for the NLCP. He is currently the Principal Investigator (PI) for a National Institute of Justice (NIJ) grant to develop a spectral, cheminformatic database for compounds of forensic interest. He also serves as Co-PI on several forensic science projects, including Technology Transfer Strategies of Forensic Science Research and Development to the Practitioner End User (NIJ) and for other projects that assess technology transfer strategies and Web-based educational materials for forensic scientists. Dr. Stout is also senior key staff in the Forensic Technology Center of Excellence.



Jennifer Limoges
MS, DABC
Treasurer
(two year term)

Jennifer Limoges received her B.S. in Chemistry from Clarkson University and her M.S. in Forensic Science from the University of New Haven. She began working for the New York State Police as a Forensic Scientist in 1994. Currently, she is the Supervisor of Forensic Services for the Toxicology and Breath Testing departments of the NYSP Forensic Laboratory System. Ms. Limoges is an active member of the Society of Forensic Toxicologists (SOFT) and the American Academy of Forensic Sciences (AAFS). She currently serves as a Director on the SOFT Board, is the current Chair of the SOFT/AAFS Drugs & Driving Committee, and has been an active member (and past chair) of the SOFT Continuing Education Committee. She is a member and Past President of the Northeastern Association of Forensic Scientists

(NEAFS), a member of the International Association for Chemical Testing (IACT), and a Diplomate of the American Board of Criminalistics (ABC). Ms. Limoges sits on the National Safety Council's Committee on Alcohol and Other Drugs, and currently serves on their Executive Committee. She is also a member of the Scientific Working Group for Forensic Toxicology (SWG-Tox), an inspector for the American Society of Crime Laboratory Directors/Laboratory Accreditation Board (ASCLD/LAB), and an Associate Adjunct Professor for the Chemistry Department at the University at Albany. She served as the Guest Editor for the 2009 SOFT Special Issue of the Journal of Analytical Toxicology. Ms. Limoges' primary area of interest is in impaired driving issues, and she is a strong proponent of continuing education. She has hosted numerous workshops over the years at both the local and national level, providing training to toxicologists, law enforcement officers, and attorneys.



Madeline Montgomery
BS, FTSABFT
Director
(three year term)

Madeline Montgomery is currently the Toxicology Supervisor at the FBI Laboratory where she has the pleasure of leading a team of 5 other chemists and toxicologists. She has worked for the FBI Laboratory since 1995, when she started her FBI career as an intern. Madeline continues to perform toxicology casework in her supervisory position, analyzing evidence

NOMINATING COMMITTEE OFFERS 2013 SLATE OF OFFICERS (CONTINUED)

in suspected homicides, driving under the influence cases, kidnappings, sexual assaults, and death investigations across the US. Her analytical interests center around LC/MS and exact mass measurement.

Madeline is an active member of SOFT where she serves on the DFSA (Drug-Facilitated Sexual Assault) Committee. She heads the education and outreach group of the DFSA Committee, and in that capacity, coordinated a continuing education workshop on DFSA this spring in Oklahoma. She also frequently provides training on the topic of DFSA to audiences including toxicologists, nurses, investigators, lawyers and judges.

Madeline is also an active member of TIAFT (The International Association of Forensic Toxicologists), where she serves on the Young Scientists (YS) Committee. As a YS, Madeline reviews and evaluates oral and poster presentations given by toxicologists in the 40 and under crowd at the annual TIAFT meeting. The group awards the best presentation in each category, as well as the best published manuscript of the year.

Madeline is the Executive Secretary of SWGTOX (The Scientific Working Group for Forensic Toxicology) and an assessor for ASCLD/LAB (The American Society of Crime Laboratory Directors Laboratory Accreditation Board) in

the areas of toxicology and drug chemistry. She holds a BS in chemistry from The George Washington University in Washington, DC, and is a Forensic Toxicology Specialist with ABFT (The American Board of Forensic Toxicology).



William Anderson,
PhD
Director
(one year term)

Dr. Anderson is currently the Chief Toxicologist for the Forensic Science Division of the Washoe County Sheriff's Office in Reno, Nevada. His current duties include toxicological investigations of law enforcement and Medical Examiner/Coroner cases.

He has previously served as Chief Toxicologist for the State of North Carolina Office of the Chief Medical Examiner, Chief Toxicologist for Sierra Nevada Laboratories, Inc., Reno, NV, Deputy Chief Toxicologist for the State of Oklahoma Office of the Chief Medical Examiner, and the Chief Toxicologist for the Tennessee State Crime Laboratory.

He has held academic positions as an Assistant Professor of Clinical

Laboratory Sciences at the University of Tennessee Center of the Health Sciences, Assistant Clinical Professor of Clinical Laboratory Sciences at the Oklahoma School of Medicine, and Assistant professor of Pathology at the School of Medicine at the University of Nevada, Reno, and at the University of North Carolina School of Medicine.

He received his B.S. and M.S. degrees in chemistry from Tennessee Technological University and his Ph.D. degree in Pathology/Toxicology from the University of Tennessee Center for the Health Sciences. His research interests include analytical methodology and the study of postmortem redistribution of drugs.

The Biographies provided above were submitted by the Nominees.



There are many opportunities and a great need for **volunteers** to assist with the 2012 SOFT Meeting. Those interested may contact volunteer coordinators:

Colleen Scarneo colleen.scarneo@dos.nh.gov or Deborah Denson ddenson1@nc.rr.com



SOFT 2012 ANNUAL MEETING

Boston, Massachusetts

July 1 – 6, 2012

Host: Michael Wagner, Ph.D.

micawagn@iupui.edu



PRELIMINARY PROGRAM

Sunday, July 1, 2012

- ▶ Registration Opens (9am-6pm)
- ▶ NSC-CAOD Meeting (8:30am-12pm)
- ▶ NLCP Inspector Training (2pm-6pm)
- ▶ FTCB Meeting (4pm-6pm)
- ▶ Young For. Tox. Meeting (5pm-9pm)
- ▶ Dinner on your own

Monday, July 2, 2012

- ▶ Continental Breakfast (7am-8:30am)
- ▶ Registration (7am-6pm)
- ▶ ABFT Exam Committee (7am-12pm)
- ▶ SOFT Workshops (8am-5:30pm)
- ▶ SOFT Student Enrichment Program (8am-5pm)
- ▶ FTCB Examinations (9am-12pm)
- ▶ Lunch On Your Own
- ▶ FTCB Board Meeting (2pm-6pm)
- ▶ SOFT-AAFS Drugs and Driving (5:30pm-7pm)
- ▶ Dinner on your own

Tuesday, July 3, 2012

- ▶ Continental Breakfast (7am-8:30am)
- ▶ Registration (7am-6pm)
- ▶ SOFT Board Meeting (7am-12pm)
- ▶ SOFT Workshops (8am-5:30pm)
- ▶ ABFT Exam (8am-12pm)
- ▶ ABFT Accreditation Comm. (8am-12pm)
- ▶ ABFT Board Meeting (12pm-6pm)
- ▶ Exhibits Setup (12pm-5pm)
- ▶ Lunch On Your Own
- ▶ Welcome Recep. w/Exhibitors (6:30pm-8pm)
- ▶ Sunshine/Rieders Silent Auction Opens 6:30pm
- ▶ Elmer Gordon Forum (8pm-9:30pm)
- ▶ Night Owl Event (10pm-12am)

Wednesday, July 4, 2012

- ▶ Continental Breakfast (7:30am-9am)
- ▶ Registration (7:30am-1pm)
- ▶ Exhibits open (7:30am-1pm)
- ▶ Sunshine/Rieders Silent Auction (7:30am-1pm)

Wednesday, July 4, 2012 (continued)

- ▶ Opening Ceremony Plenary Session (8am-9am)
- ▶ Scientific Session #1 - ERA/YSMA (9am-10am)
- ▶ Poster Session #1 (10:15am-11:30am)
- ▶ Lunch with Exhibitors (11:30am-1pm)
- ▶ SOFT "on the town" July 4th (1pm-6:30pm)
- ▶ Bus Transport to "Museum of Science" (7pm)
- ▶ MOS – Interactive Exhibits / Music / BBQ / Dessert Stations (7:30pm-10pm)
- ▶ To outdoor Pavilion to experience "Firework Extravaganza" on Charles River (10pm-11pm)
- ▶ Bus Transport back to Marriott (11:30pm)

Thursday, July 5, 2012

- ▶ SOFT Karla Moore Fun Run/Walk (6:30am-8am)
- ▶ Continental Breakfast (7:30am-9am)
- ▶ Registration (7:30am-5pm)
- ▶ Exhibits open (7:30am-1:30pm)
- ▶ Silent Auction Last Day (7:30am-12:30pm)
- ▶ Exhibitor Feedback Meeting (8am-9:30am)
- ▶ Scientific Session #2 (8am-9:45am)
- ▶ Poster Session #2 (9:45am-10:30am)
- ▶ Scientific Session #3 (10:30am-12pm)
- ▶ Lunch with Exhibitors (12pm-1pm)
- ▶ DFSA Committee (12-1pm)
- ▶ Exhibits breakdown (1:30pm-4pm)
- ▶ Scientific Session #4 (1pm-3:45pm)
- ▶ SOFT Business Meeting (4pm-5:30pm)
- ▶ ABFT Certificat Recep. (5:30pm-6:30pm)
- ▶ President's Cocktail Hr & Banquet (6pm-12am)

Friday, July 6, 2012

- ▶ Continental Breakfast (7:30am-9am)
- ▶ Scientific Session #5 (8am-9:45pm)
- ▶ AAFS Steering Committee (9am-11am)
- ▶ Scientific Session #6 (10:30am-12pm)
- ▶ Lunch (12pm-1pm)
- ▶ Scientific Session #7 (1pm-2:30pm)
- ▶ Scientific Session #8 (3pm-4pm)



SOFT 2012 ANNUAL MEETING WORKSHEET
 The Boston Marriott Copley Place
 Boston, Massachusetts, USA
 July 1-July 6, 2012



REGISTRATION WORKSHEET
 Registrations will be available online after March 9, 2012
Go to www.SOFT2012.org TO REGISTER!

Name _____ Degree _____
 Title _____ Agency _____
 Address _____
 City _____ State _____ Zip _____ Country _____
 Telephone _____ Email _____
 Shirt Size Preferred - Men: _____ Women: _____ Special Dietary Needs? Yes / No Describe _____
 Accompanying Person (s) _____
 Shirt Size Preferred - Men: _____ Women: _____ Special Dietary Needs? Yes / No Describe _____
 I plan to attend the (free) Sunday Young Forensic Toxicologists Forum (5pm-9pm). Yes / No Attendees must be 40 years old or younger.

		<i>SOFT Mem</i>	<i>Accom. Person</i>	<i>Non Mem</i>	<i>Student</i>	<i>Daily</i>
MARCH 9 - MAY 1, 2012 (EARLY REGISTRATION)	Full Meeting - includes: ► Welcome Reception Tuesday eve. ► Entrance to Scientific Sessions W, Th, F ► Daily Breakfasts, Break (am/pm) Refreshments, Lunches ► Wednesday, 4 th of July "Museum of Science" tour, outdoor BBQ and "Firework Extravaganza" ► Thursday "President's Banquet" ► SOFT 2012 Meeting Program / Abstract Book ► JAT (Journal of Analytical Tox.) Spec. Issue ► SOFT 2012 Meeting Bag / Shirt	\$499	(family = 16 and older) \$399 Addtl. person younger than 16 is FREE	\$675	picture ID from Univ. required \$175	Does NOT include special event tickets for Wed / Thurs. eve. \$275
May 1 - June 24	As Above	\$699	\$599	\$875	\$375	\$275
After June 24, 2012 (ON-SITE REG)	Depending upon supply, on-site registrants may not receive "meeting give-aways" (bag, program, JAT)	\$799	\$699	\$975	\$475	\$275
Individual Event Ticket	► Wed., 4 th of July "Mus. of Science" Event (16+)	\$118	\$118	\$118	\$118	\$118
Individual Event Ticket	► Thurs., "President's Banquet" (16+) Can be purchased from Registration Desk	\$110	\$110	\$110	\$110	\$110

Workshop Selection (subject to capacity limitations) Details of each are posted at website (www.soft2012.org)				<i>SOFT Mem</i>	<i>Non- Mem</i>
WS #1	Mon	Full Day 8a-5:30p	Opioid Drugs: 21 st Century Killers	\$200	\$250
WS #2	Mon	Half 8a-noon	Laboratory Management for Dummies . . . and Smarties too!	\$150	\$200
WS #3	Mon	Half 8a-noon	Drug Screening Using Liquid Chromatography (LC-TOF/MS)	\$150	\$200
WS #4	Mon	Half 8a-noon	Approaches to Anabolic Androgenic Steroids Analysis in Oral Fluids and Urine	\$150	\$200
WS #5	Mon	Half 1:30p-5:30p	Great Toxic Catastrophes	\$150	\$200
WS #6	Mon	Half 1:30p-5:30p	LC/MS/MS Method Development & Validation for For. Tox.	\$150	\$200
WS #7	Tues	Full Day 8a-5:30p	Issues in Drunk Driving & Driving Under Effects of Drugs	\$200	\$250
WS #8	Tues	Full Day 8a-5:30p	Polypharmacy & Human Performance in Antipsychotic Cases	\$200	\$250
WS #9	Tues	Half 8a-noon	Strategies for Expanding DUID Testing: Is Oral Fluid the Way?	\$150	\$200
WS #10	Tues	Half 8a-noon	Advances & Interpretation Challenges in Hair Testing	\$150	\$200
WS #11	Tues	Half 1:30p-5:30p	Strategies for Detection & Control of Alcohol Consumption In Clinical & Forensic Cases	\$150	\$200
WS #12	Tues	Half 1:30p-5:30p	Uncertainty of Measurement - Reporting for Forensics	\$150	\$200

WEARING NAME BADGE IS MANDATORY AND REQUIRED FOR ALL MEETING FUNCTIONS.
IMPORTANT REFUND POLICY: Refunds for a completed registration of an individual will be honored if written request is received prior to 5-1-12 minus a \$100 USD administrative fee. No refunds offered after 5-1-12.
REGISTRATION DESK will be open Sunday - Friday. Delegates are advised to pick-up badge & materials upon arrival.

SOFT 2012 ANNUAL MEETING
Boston, Massachusetts
July 1 – 6, 2012
2012 SOFT WORKSHOPS

Monday July 2, 2012

- W1 Opioid Drugs: 21st Century Killers
Co-Chairs: Ann Marie Gordon, MS & Christine Moore, PhD
- W2 Laboratory Management For Dummies...and Smarties, Too! It's A Generational Thing!
*****Registration limit has a maximum attendance of 75*****
Co-Chairs: Marc LeBeau, PhD & Dan Anderson, MS
- W3 Drug Screening Using Liquid Chromatography Time-of-Flight Mass Spectrometry
Co-Chairs: Stephanie J. Marin, PhD & John M. Hughes, PhD
- W4 Approaches to Anabolic Androgenic Steroids Analysis in Oral Fluid and Urine
Co-Chairs: Erica A. Guice, MS & Veronica I. Luzzi, PhD
- W5 Great Toxic Catastrophes
Co-Chairs: Maria A. Martinez, PhD & David M. Benjamin, PhD
- W6 LC/MS/MS Method Development and Validation for Forensic Toxicology Applications
Co-Chairs: Jarrad R. Wagner, PhD & Bart L. Gray, BS

Tuesday July 3, 2012

- W7 Contemporary Issues in Drunk Driving and Driving Under the Effects of Drugs
Co-Chairs: David M. Benjamin, PhD & Teri L. Stockham, PhD
- W8 Polypharmacy & Human Performance in Antipsychotic Cases: Interpretation of Impairment or Impaired Interpretations?
Co-Chairs: Michelle A. Spirk, MS & Jarrad R. Wagner, PhD
- W9 Strategies for Expanding DUID Testing: Is Oral Fluid the Way Ahead?
Co-Chairs: Christine Moore, PhD & Barry K. Logan, PhD
- W10 Advances & Interpretation Challenges in Hair Testing
Co-Chairs: Gail A. A. Cooper, PhD & Pascal Kintz, PhD
- W11 Strategies for Detection & Control of Alcohol Consumption in Clinical and Forensic Cases
Co-Chairs: Alberto Salomone, PhD & Christine Moore, PhD
- W12 Uncertainty of Measurement—Reporting for the Forensic Community
Co-Chairs: Carrie A. Kirkton, MS & Melissa S. Kennedy, MS

2012 Workshop Program Chair:
Jen Limoges (518-457-9612)
jennifer.limoges@troopers.ny.gov

SOFT 2012 ANNUAL MEETING

Submitted by Michael Wagner, Ph.D., Meeting Host

micawagn@iupui.edu

SOFT 2012 at the Boston Marriott Copley Place - July 1, 2012 thru July 6, 2012

Meeting Registration Costs:

Members	\$499.00
Non-Members	\$675.00
Students	\$175.00
Daily	\$275.00
Additional Person (16 +)	\$399.00
Additional Person (< 16)	Free
Exhibitor	\$499.00

Workshop Cost:

Members ½ Day	\$150.00
Full Day	\$200.00
Non-Members ½ Day	\$200.00
Full Day	\$250.00

*****Registration Deadline*****

May 1st is the last day to register for SOFT 2012 –Boston without a late fee

Individual Event Ticket(s) may be purchased from the Registration Desk for the following events:

Wed., July 4th, 2012
“Museum of Science” Event
(16+) - \$118

Thurs., July 5th, 2012
“President’s Banquet”
(16+) - \$110

Hotel Registration

Boston Marriott Copley Place
110 Huntington Avenue
Boston, MA 02116 USA

**Phone Reservations
(available now):**
1-800-266-9432 (toll-free) and
1-506-474-2009 (Int'l)

Rate: \$183/night
(not including tax)

Online Reservations (available):
[Reserve Rooms at the Marriot
Copley Place Online](#)

Overflow rooms are available at:
Sheraton Boston Hotel
39 Dalton Street
Boston , MA 02199

617.236.2000

RATES not including tax and fees:

Singles & Doubles	\$189.00
Triples	\$229.00
Quads	\$269.00

[Reserve Rooms at the Sheraton
Online](#)

Additional overflow rooms:

Fairmont Copley Plaza
(June 30, 2012 – July 6th 2012)
138 St. James Avenue
Boston, MA 02116

617-267-5300
boston@fairmont.com

Guest room/Suite Block Dates and number of rooms available

Sat	6/30/12	10 rooms
Sun	7/01/12	30 rooms
Mon	7/02/12	40 rooms
Tue	7/03/12	50 rooms
Wed	7/04/12	50 rooms
Thurs	7/05/12	40 rooms
Fri	7/06/12	Departure

RATES not including tax and fees:

Single—Deluxe	\$216.00
Double	\$216.00

Note: Ask about additional rooms/suites types and rates

We're on the Web!

www.soft-tox.org

SOFT 2012

www.soft2012.org

NOTE: It is imperative to only reserve the true number of nights needed at the hotel, as opposed to simply reserving the whole week. Booking extra nights puts SOFT at financial risk as well as eliminates rooms from our discounted room block that are needed by other participating attendees.

RESEARCH OPPORTUNITIES IN FORENSIC SCIENCE

*Submitted by
Larry D. Bowers, Ph.D.*

How do you detect intravenous dosing of recombinant erythropoietin? Is there a marker for autologous blood transfusion? What biomarkers exist for endocrine manipulation using growth hormone? Are there long-term health consequences of drugs like EPO or dietary supplements? What is the best analytical technique for detecting designer anabolic steroids? Could dried blood spots result in a larger number of tests being done? Can this approach support analysis of the entire Prohibited List?

Many of the biological fluids and testing approaches used in anti-doping science overlap with those in forensic toxicology. Numerous potential research opportunities exist in anti-doping. The Partner-

ship for Clean Competition (PCC) was formed in early 2008. Its focus is to support high-quality scientific research that advances effective detection and deterrence of the use of performance-enhancing drugs in sport. In addition to traditional grants, there are collaborative research efforts such as working groups focused on solving well-defined problems.

The PCC reviews grant submissions three times each year with pre-applications due March 1, July 1, and November 1. Applicants whose pre-applications align with PCC objectives and show potential will then be asked to submit full grant applications. Grants will be evaluated on the basis of their innovation, likelihood of success, research team qualifications and resources,

and impact on anti-doping.

The PCC also supports a two year post-doctoral Fellowship that involves research opportunities for at least a portion of the time at one of the two US-based WADA accredited laboratories: the Olympic Analytical Laboratory at UCLA and the Sports Medicine Research & Testing Laboratory in Salt Lake City. The application deadline for the 2013 Fellowship will be October 1, 2012.

For information about the Fellowship and research funding priorities of the PCC, visit the web site: www.cleancompetition.org. For more information about working groups, call Larry Bowers, Chairperson of the PCC Scientific Advisory Board at (719) 785-2003.

2012 SOFT MEETING AV TEAM

The SOFT Audio-Visual support staff are tasked with making sure all the workshop and scientific presentations run smoothly. Attendees and presenters expect to focus on the information provided in the presentations, not on making the computers and projectors run properly.

SOFT members Frank Wallace, Dale Hart, and Carl Horn will be working at the meeting to make sure all the workshop and scientific presentations, and other AV functions come together to provide the high-quality workshop experience meeting attendees

have come to expect.

The laptops used in the workshop will have Microsoft Office 2007 installed (backward compatible with older versions). Presentations will be loaded onto the workshop laptops ahead of time and tested to make sure they run properly. The presentations will be hyperlinked from agenda slides providing a seamless flow between presentations. All files will be backed up and can be re-loaded quickly if a problem occurs.

The SOFT Audio-Visual support staff would like presenters to begin sending in their presentations as soon as

possible. There are two primary ways to send in presentations:

1. Email to Frank.Wallace.2@gmail.com
2. Upload to <http://www.soft-workshops.org/uploadfile.asp>.

If presentation files are too large to send by email, multimedia files are needed, or mail server issues arise, the upload page is available if email doesn't work.

The deadline for Submissions is June 29, 2012.



DRUGS IN THE NEWS

Send interesting “*Drugs In The News*” articles
to Section Editor

Dwain Fuller, B.S., D-FTCB, TC-NRCC

Dwain.Fuller@va.gov

Drugs in the News: The Drug Report

Submitted by Section Editor, Dwain C. Fuller

In case you didn't catch the somewhat weak pun, the title of this edition is a play off of the popular news aggregator site, “The Drudge Report”, by Matt Drudge. “Okay, so why?” you ask. Well, you probably are unaware of it, but due to scheduling constraints in getting another edition of ToxTalk out before the July meeting in Boston, the deadline for article submissions for this edition comes right on the heels of last edition's deadline. So, quite simply, many of your section editors are struggling for content. So instead of my regular editorial-style contribution, perhaps mercifully, this edition of Drugs in the News will be a news aggregate. Here are a few headlines. Hope you find something of interest to you:

DEA Extends Emergency Regulation on Spice and K2 Ingredients.

Five of the main synthetic cannabinoids (JWH-018, JWH-073, JWH-200, CP-47,497, and cannabicyclohexanol) have been put under extended emergency scheduling authority by the DEA. This scheduling prohibits the possession or sale of both the chemicals and products that contain them. This will extend by six months the emergency action taken by the DEA a year ago. The action has been taken while legislation to



permanently schedule these compounds is being crafted. These compounds have been placed under Schedule 1 classification, meaning they have no accepted medical use.

www.medicalnewstoday.com/articles/242386.php
www.justice.gov/dea/pubs/pressrel/pr022912.html

Phenazepam Found in Herbal Smoking Blends

The Health Ministry in New Zealand is recalling two brands of herbal smoking blends, “Kronic Pineapple Express” and “Juicy Puff Super Strength”, due to the finding of the



benzodiazepine, phenazepam, in the mix. Associate Health Minister, Peter Dunne stated, “The people in this industry are generally not trustworthy or reliable. They are fast-buck merchants who, on the one hand claim to be offering a legal and safe alternative to illicit drugs, then throw their hands in the air and say they do not know what is in their products when testing catches them out. They cannot have it both ways. This has happened twice in the last week.” In further statements, he referred to impending restrictions that will curb the advertising and marketing of synthetic cannabinoids. “In the longer term, the solution we are looking at is reversing the onus of proof and making the manufacturers and suppliers prove their products are safe before they get anywhere near the market. That way they will not be able to just change an ingredient or two and put a new variant of the same bad products on the market.” Currently, authorities have to prove such products are unsafe before they can be taken off the market.

http://www.nzherald.co.nz/news/article.cfm?c_id=1&objectid=10735444

http://media.newswire.com/release_1154841.html

Drugs in the News: The Drug Report (Continued)

Meta-Analysis Finds Cannabis Use Nearly Doubles Risk of Vehicle Crash Causing Injury or Death

In a recent article published in the



British Medical Journal, entitled *Acute Cannabis Consumption and Motor Vehicle Collision Risk: Systematic Review of Observational Studies and Meta-analysis* (BMJ, 2012; 344) authors, Asbridge, Hayden, and Cartwright performed meta-analysis of nine studies with a total sample of 49,411 people. The findings were that those drivers with self-reports of the use of cannabis within three hours of driving or those with active THC in their blood, had nearly doubled the risk of being involved in a vehicle collision resulting in serious injury or death.

<http://www.sciencedaily.com/releases/2012/02/120210111254.htm>
www.bmj.com/content/344/bmj.e536

Some People May Be More Susceptible to Alcohol-Induce Fragmentary Blackouts than Others

Alcohol's effect on memory ranges

from mild deficits to alcohol-induced blackouts. In a study to be published in the June 2012 issue of *Alcoholism: Clinical and Experimental Research*, the authors found evidence to suggest that "some people are more likely to experience alcohol-induced blackouts than others due to the way alcohol affects the brain activity in areas involved in self-monitoring, attention, and working memory." The study found that "unique patterns of blood flow and neural activity seen in persons prone to experience those amnesic phenom-



ena emerged only after they became intoxicated." Additionally, alcohol appears to affect a person's ability to multitask, and also affects some people's ability to engage brain areas required for encoding and remembering previous experiences. Bryan Hartzler, one of the researchers, observed, "Not fully recalling one's life experiences, particularly those that occur while one is intoxicated, creates a state of vulnerability where the chances increase for the individual to incur all kinds of problems."

<http://www.medicalnewstoday.com/releases/243010.php>

Opana, New Scourge of Rural America



The prescription drug, Opana (oxycodone), is taking root in rural America as a replacement for Oxycontin (oxycodone), which, due to reformulation, has become harder to abuse. Oxycodone is more potent than oxycodone and currently Opana can be easily crushed into a powder for snorting or dissolved for injection, making it easier to abuse. In December however, Endo Pharmaceuticals, the producer of Opana, announced that it would reformulate Opana to make it difficult to crush and it will turn viscous or "gooey" if an abuser tries to add liquid to it. Opana goes by the street names, "stop signs", "the O bomb", and "new blues".

<http://www.reuters.com/article/2012/03/27/drugs-abuse-opana-idUSL2E8EQJOQ20120327>

2012 SOFT MEETING VOLUNTEERS NEEDED

The SOFT 2012 Boston Host Committee would like the membership to be aware of the many opportunities and a great need for volunteers to assist with the 2012 SOFT Meeting.

Those interested may contact volunteer coordinators:

Colleen Scarneo colleen.scarneo@dos.nh.gov and/or Deborah Denson ddenson1@nc.rr.com.



NEW DRUGS AND TECHNOLOGY TIDBITS
 Send interesting "New Drugs and Tech-IN Tidbit" articles to
 Section Editor *Dan Anderson, M.S., FTS-ABFT, D-ABC*
DAnderson@coroner.lacounty.gov

NEW DRUGS and TECH-IN Tidbits: Save the Trees

Submitted by

Szabolcs Sofalvi, MSChE ssofalvi@cuyahogacounty.us

Cuyahoga County Regional Forensic Science Laboratory & Medical Examiner's Office
 11001 Cedar Avenue, Cleveland, OH 44106

Agilent is a common GC/MS instrument in many forensic labs. If you have an Agilent GC/MS and have quantified analytes using ChemStation E.02.00 software, there is a Cover Page that prints out which seems unnecessary. In order to stop this page from printing, two existing macros in ChemStation can be modified. These macros are **qr.mac** and **qrsetup.mac** which are located in c:\msdchem\Msexec.

Before you modify these files, copy and rename them to qrOLD.mac and qrsetupOLD.mac and leave these intact so that you can always go back to the original version. Below are the two portions of the files that need to be changed. Find these sections and add the bold red parts where indicated. Including an exclamation mark causes the computer to ignore the subsequent line of code.

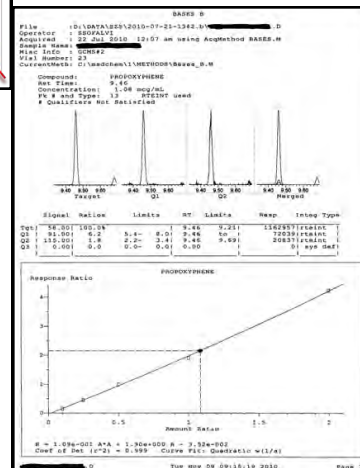
!-----qr.mac-----

```
NAME ProcessReport
PARAMETER stage$ DEFAULT ""
IF lcv = 1
  IF LEN(stage$) = 0
    IF CAL_PK_FOUND > 0
      IF DEFSAMPAMT > 0
        amt_units$ = "%"
        cal_pk_amt = cal_pk_amt/defsampamt * 100
      ENDIF
      IF MULTIPLIER <> 1
        cal_pk_amt = cal_pk_amt * multiplier
      ENDIF
    ENDIF
  ENDIF
  IF QUANT_DETAILED = 0
    PCpdLine
  ELSE
    IF LEN(stage$) = 0
      PDetailPage ! This prints quant page with calib curve
    ELSE
      !PTimeRefLine
    ENDIF
  ENDIF
ENDIF
```

Cover Page



Quant Page



NEW DRUGS and TECH-IN Tidbits: Save the Trees *(Continued)*

```

ELSE
  IF (QUANT_DETAILED = 0)
    PEndReport
  ELSE
    IF (LEN(stage$) <> 0)
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        !DoFooter
      ENDIF
    -----
    !-----qrsetup.mac-----
    pdfname$=_datapath$+_datafile$+"\Quant_"+_quantresfile$[2:len(_quantresfile$)-3]+".pdf"
    else
      pdfname$=""
    endif
    pdf_STARTJOB "quant"+_datafile$,pdfname$
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!PrintTopHeader 1
rownum = 1
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    !PrintQuantHeader
    IF QUANT_PRINTER = 1
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      !PrintNumOfCpds
      !CheckEndPage
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    ENDIF
    !PrintTRefHeader
  ELSE
    !PrintQuantHeader
    !PrintColHeader
  ENDIF
  lcv = 1
  count = 0
  IF QUANT_DETAILED > 0

```



!-----

NEW DRUG: Milnacipran (Savella®)

Submitted by Justin O. Brower Ph.D., justin.brower@dhhs.nc.gov and

Doug L. Smith, M.S., FTS-ABFT douq.smith@dhhs.nc.gov



Milnacipran, a serotonin-norepinephrine reuptake inhibitor (SNRI), is marketed nearly worldwide for the treatment of major depressive episodes. Until recently it had not been approved for use in the United States. In January 2009 the FDA approved milnacipran for the management of fibromyalgia and is sold under the brand name Savella®. This marked the third drug to be approved for the management of fibromyalgia, following pregabalin (Lyrica®) and duloxetine (Cymbalta®). While not approved for use in depression, doctors are able to prescribe it off-label. Indications for which milnacipran has been prescribed include depression, anxiety, pain, ADHD, reduction of hot flashes, and obsessive compulsive disorder. Though Savella® is by no means a best seller, its use in a multitude of indications and increasing polypharmacy could have unforeseen consequences.

Milnacipran blocks the reuptake of serotonin and norepinephrine

in a ratio of 1:1.6. For comparison, other common SNRIs such as venlafaxine (Effexor®) and duloxetine (Cymbalta®) have ratios of 1:30 and 1:9, respectively.¹ By blocking the reuptake of serotonin, there is the real possibility of acquiring serotonin toxicity (ST). Simply put, ST is toxicity due to increased concentrations of intra-synaptic serotonin, and has been associated with numerous drugs, either alone or in combination with others. These drugs are typically those that increase serotonin release (amphetamines, cathinones, and cocaine) or block the reuptake of serotonin (paroxetine, citalopram, and fluoxetine). The clinical features of ST include fever, tachycardia, tremors, rigidity, agitation, and confusion. The presentation of ST can range from mild to fatal.²

In one case, a 76-year old male that had been on paroxetine for five years was prescribed milnacipran. Eight days later he was found lethargic with incomprehensible speech and was brought to the emergency room. He had a temperature of 102°C and a heart rate near 120 beats per minute. He was diagnosed with ST and after supportive care returned to normal after 48 hours.³ The milnacipran

concentration was not reported.

Milnacipran is absorbed rapidly after oral administration. Plasma levels are approximately 0.1 mg/L after a 50 mg dose. It has a volume of distribution of 5.3 L/kg which is the same range as many SSRIs.⁴ The typical recommended dosage is 100 mg/day (50 mg twice daily).

In a fatal case, a 42-year old woman was found dead in the back of her car. A bottle containing a white liquid was found along with many other prescription drug packages. Analysis of the liquid showed it to contain milnacipran and sertraline. Her central and peripheral milnacipran concentrations were 21 and 21.5 mg/L respectively, which is approximately 20-times that of therapeutic.⁵

It is important for the forensic toxicologist to be aware of most drugs and any potential drug-drug interactions, and milnacipran is no exception. Presented here is GC/MS, GC/NPD, LC/MS/MS and LC/MS-ion trap (ms² and ms³) data for milnacipran at 0.25 and 0.10 mg/L, respectively.

(Milnacipran is a racemic mixture of two enantiomers. Stereochemistry is not shown for clarity.)

General Information

IUPAC name: (±)-[1RS,2SR]-2-(aminomethyl)-N,N-diethyl-1-phenylcyclopropanecarboxamide hydrochloride

Common name: Milnacipran

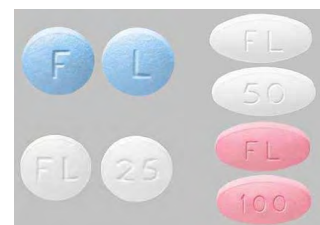
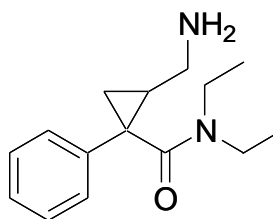
Brand name: Savella® (Forest Pharmaceuticals)

Molecular formula: C₁₅H₂₂N₂O·HCl (C₁₅H₂₂N₂O, free base)

Molecular weight: 282.15 g/mol (246.17 g/mol, free base)

CAS number: 92623-85-3

Rx dosage: 12.5, 25, 50, 100 mg

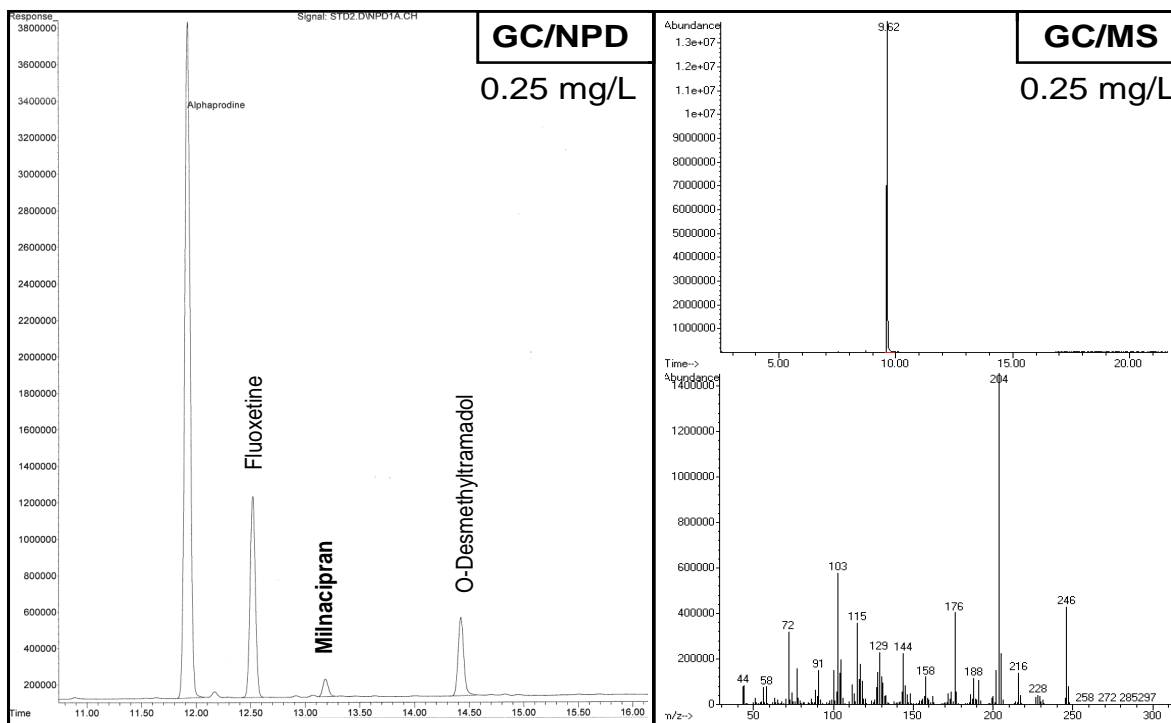


NEW DRUG: Milnacipran (Savella®) (Continued)

Availability: Cerilliant: Milnacipran HCl, 1 mg/mL in methanol (as free base)
 Toronto Research Chemicals: Milnacipran HCl, 25 and 250 mg, Milnacipran-d10 HCl, 1 and 10 mg

Toxicology – GC/NPD, GC/MS

Extraction: *n*-butyl chloride LLE with acid back extraction
 Concentration: 0.25 mg/L from 2 mL blood
 Ions: 204, 103, 176, 246
 Elution order: Alphaprodine (IS 1.0 mg/L), Fluoxetine, **MILNACIPRAN**, O-desmethytramadol (0.25 mg/L)
 Columns: GC/NPD: Agilent J&W DB-5, GC/MS: Agilent J&W DB-5ms



Toxicology – LC/MS/MS, LC/MS-ion trap

Extraction: protein precipitation with methanol
 Concentration: 0.10 mg/L from 0.1 mL blood
 Conditions: H₂O/MeCN with 0.1% formic acid, 0.6 mL/min, 5-95% MeCN/4 min
 Columns: LC/MS/MS: Thermo Hypersil ODS 100 x 2.1 mm, 3 μm
 LC/MS-ion trap: Thermo Hypersil PFP 100 x 2.1 mm, 3 μm

LC/MS/MS

Milnacipran: Parent ion 247.2, Quant ion 230.2, Qualifying ions 128.1, 100.1

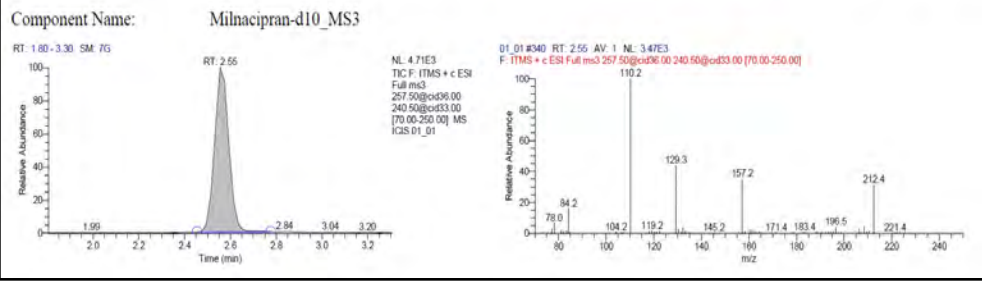
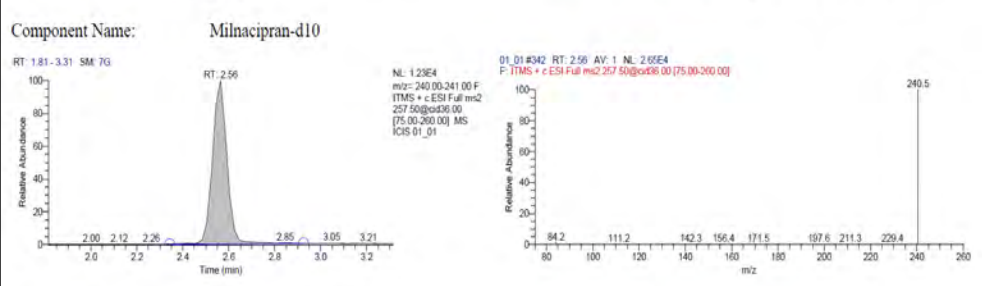
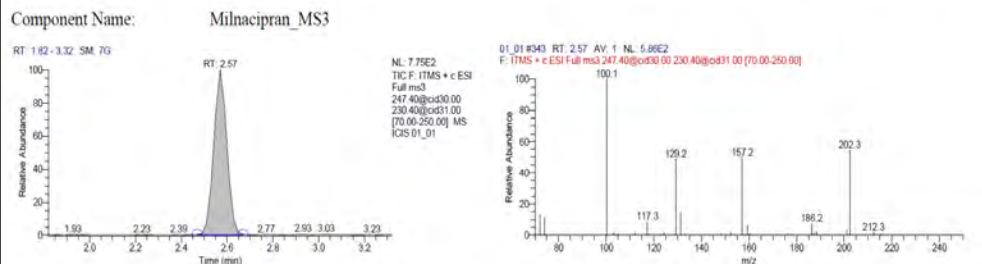
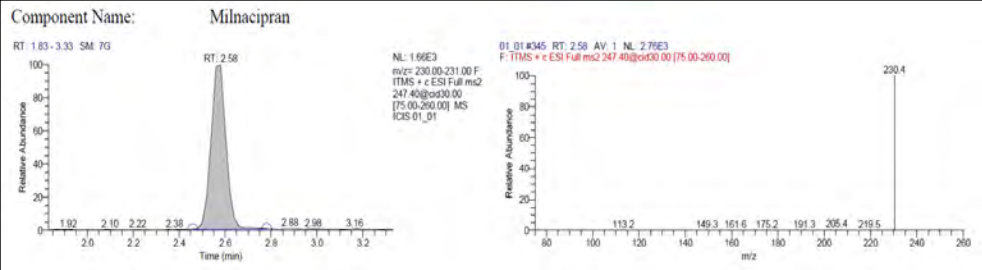
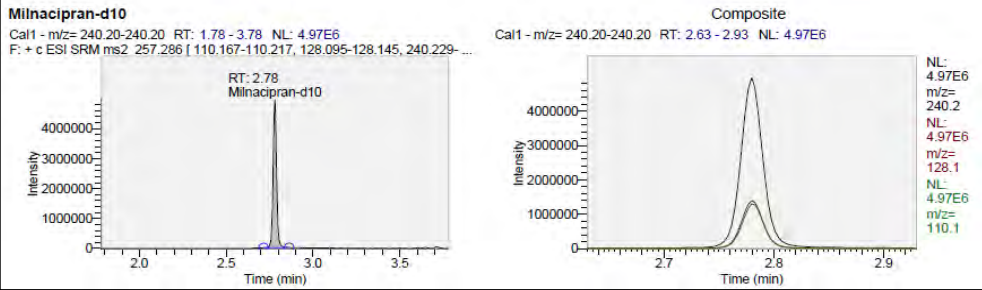
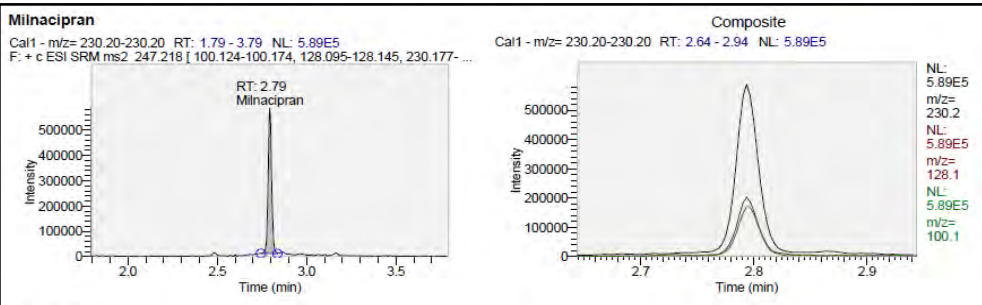
Milnacipran-d10: Parent ion 257.2, Quant ion 240.2, Qualifying ions 128.1, 100.1

LC/MS-ion trap

Milnacipran: Parent ion 247.4, MS² 247.4 à 230.4, MS³ 230.4 à 100.1, 129.2, 157.2, 202.3

Milnacipran-d10: Parent ion 257.5, MS² 257.5 à 250.5, MS³ 250.5 à 110.2, 129.3, 157.2, 212.3

NEW DRUG: Milnacipran (Savella®) (Continued)



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CASE NOTES
 Send interesting "Case Notes" to Section Editor

Matthew Barnhill, Ph.D., DABFT
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FROM THE TOXICOLOGY LITERATURE

Submitted by Barry Levine, Ph.D., DABFT

Office of the Chief Medical Examiner, Baltimore, MD

Forensic Science International Vol. 214 Jan 2012

Hockenull et al reviewed data from 191 postmortem cases using blood β -hydroxybutyrate (BHB), blood acetone and vitreous humor glucose to differentiate between diabetic ketoacidosis [DKA- (elevated glucose; elevated acetone)], alcohol ketoacidosis [AKA- (increased acetone; normal glucose)] and hyperosmolar hyperglycemic state [HHS- (no acetone; elevated glucose)]. BHB concentrations were significantly higher in DKA cases than the other cases. Significant BHB concentrations were always associated with increased blood acetone concentrations (> 2mg/dL) and as a result, BHB analysis would only be required when an elevated acetone was found. A high vitreous humor glucose concentration and an elevated BHB can distinguish DKA from the other conditions. The authors recommended that vitreous humor glucose be measured in all unexplained deaths as it would be the only marker for HHS-caused deaths.

Journal of Forensic Sciences Vol 57 Jan 2012

Bertol et al reported a suicide by potassium chloride injection where heart and femoral blood potassium concentrations were measured using an ion specific electrode. The heart and femoral blood potassium concentrations were 160 and 87.3 mM respectively. In an attempt to interpret these results, the authors determined "normal" postmortem

blood potassium concentrations by analyzing 55 postmortem femoral blood concentrations from a variety of cases. Potassium concentrations ranged from 27.2 mM to 50.1 mM with median and mean concentrations of 35.3 and 36.2 mM, respectively. The authors propose the use of this normal range for the interpretation of postmortem blood potassium concentrations.

Journal of Analytical Toxicology Vol 36 Jan 2012

Jones et al compared the blood methadone concentrations in methadone-related deaths, non-drug deaths and DUID cases. In the 346 methadone related death cases, the mean and median femoral blood methadone concentrations were 0.53 and 0.40 mg/L, respectively. In non-drug deaths, the mean and median methadone concentrations were 0.46 and 0.30 mg/L, respectively. In 909 DUID cases, the mean and median methadone concentrations were 0.23 and 0.20 mg/L respectively. Although the median concentrations were significantly higher in death cases, there was significant overlap in the concentrations between living and deceased individuals.

Melo et al. examined the stability of four benzodiazepines in post-mortem blood, bile and vitreous humor at different temperatures over a six month period. Ketazolam was unstable in all samples and was undetectable in 1-2 weeks at room temperature and 8-12 weeks at refrigerated temperature. Keta-

zolam degradation was associated with an increase in diazepam concentration. Chlordiazepoxide was also unstable at room and refrigerated temperatures; both demoxepam and nordiazepam were detected as the chlordiazepoxide concentrations decreased. Lorazepam also showed instability, but not to the extent of ketazolam or chlordiazepoxide. Conversely, estazolam concentrations remained stable at refrigerated temperature.

American Journal of Forensic Medicine and Pathology 2012 Vol 33 March

Molina reviewed 43 cases over a 16 year period where hydroxychloroquine was detected in post-mortem specimens. In 32 of these cases, the cause of death was clearly not related to the use of the drug. In 30 of these cases, blood from different sites was quantitated for hydroxychloroquine. The median blood concentration was 9.5 mg/L with a range of 0.3-39 mg/L. The author recommends using a postmortem "cutoff" of 40 mg/L as an indication of a non-toxic concentration of the drug.

TOXICOLOGY-BITS & PIECES



Send interesting
"News and
Notes" to
Section Editor

J. Robert Zettl, MPA
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SOFT/AAFS DRUGS AND DRIVING COMMITTEE

Highlights of Special Session at AAFS Meeting In February 2012

Driving under the Influence of Drugs

Coordinated by *Ashraf Mozayani, Ph.D.*

The session started with keynote speaker Mr. William C. Head, a defense attorney in Georgia. Mr. Head was named the 2003-2004 "National DUI Lawyer of the Year" and was one of the original 12 Regents who created the National College for DUI Defense, Inc. (www.NCDD.com) in 1995. His presentation was titled "Seven Critical Forensic and Evidentiary Hurdles Affecting Prosecution of Driving under the Influence of Alcohol (or other Drugs) Case".

"Two Fatalities, Survival Driver, and Topiramate" was the next presentation by Michael Chen, PhD. The side effects of topiramate highlighted the dangers of prescription drug abuse and misuse, which can result in cognitive impairment when operating a motor vehicle.

Frank Dorman, PhD spoke about the importance of gas chromatography (GC) column chemistry in his

presentation "Development of a New Gas Chromatographic Column Set for the Analysis of Blood Alcohol Concentration". He described a procedure to optimize GC column dimensions and stationary phase chemistry to improve chromatographic resolution with shorter analysis times.

Fran Gengo, PharmD presented "Clinical Pharmacologic Factors in Interpretation of Serum Benzodiazepine or Opiate Concentrations in Automobile Drivers". The impairing effects produced by specific concentrations of opiates or benzodiazepines will vary depending on whether these medications are being used to treat chronic medical conditions, or acutely or recreationally used.

"Comparison of Ethanol Elimination Rate of Human Females and Body-Paired Males", Michael R. Corbett, PhD, discussed his research on the impact of gender

differences on ethanol elimination rates. The ethanol elimination rate is higher in human females than males when formulated in concentration per unit time, but no significant difference exists when it is expressed in concentration per body mass per unit time.

Jessica Westland, MPS followed with "Improved Blood Alcohol Concentration Analysis Utilizing Two Novel Chromatographic Stationary Phases" which described headspace gas chromatographic analysis of blood alcohol concentrations in a routine analysis carried out in forensic laboratories.

Brian M. Lutmer, BS completed the session with "New Criteria for Accepting Breath Alcohol Test Results Using Exhalation Profile Data". He examined exhalation data to determine irregularities with breath alcohol samples, and used that to develop a new set of criteria for acceptance of the breath alcohol test results.

SWGTOX UPDATE—PLEASE KEEP YOUR EYES OPEN

Submitted by *Robert Middleburg, Ph.D., DABFT*

The Scientific Working Group in Toxicology has made significant progress in the promulgation of standards of practice in forensic toxicology as practiced in the United States. The most recent meeting of the group was held in Charleston, SC. Despite some travel issues due to a change in responsible organizational parties, SWGTOX Members in attendance worked extremely hard for three

solid days resulting in the completion or near completion of several very significant documents:

- Method Validation
- Quality Assurance
- Research, Development, Testing and Evaluation
- Certification
- Accreditation

Please look for announcements of these documents over the next

several months. This will be your opportunity to review the documents and provide comment and feedback. The developed standards are not meant to set unattainable goals. They are based on realistic expectations balanced with sound scientific bases. Additionally, these documents are not static in nature and, based on SWGTOX by-laws, subject to relatively frequent review; since sci-

SWGTOX Update(Continued)

ence is dynamic, so are these standards.

As the above committees/subcommittees/task groups finish up their documents, new committees/subcommittees/task groups have taken up new areas to cover. For the most part, these newer assignments are focused on specific subject matter, e.g., Traceability and Uncertainty; Mass Spectrometry; etc. In that respect, subject matter experts have been, or will be, added to the SWGTOX membership. In this latter respect, I want to thank those Members of SWGTOX whose assignments have been completed. These individuals have sacrificed a significant

amount of time to the process and their efforts are not without note. In addition to these colleagues, many others continue with the process and, they too, deserve a great deal of thanks for all their continued efforts.

In another development, the SPPIWG (The Standards, Practices and Protocols Inter-Agency Working Group) has promulgated unified SWG by-laws to be followed by all active SWGs, for which there are approximately twenty in number. However, these by-laws have not been finalized. In preparation of these by-laws, SWGTOX has been reviewing its own by-laws for conformity purposes. One change that

has occurred within SWGTOX that does comport with the proposed by-laws is the appointment of a single Chair. The FTC appointed Rob Middleberg as Chair. This appointment also delineates a single contact point for other SWGs, IWGs and NIJ, our sponsoring federal agency. The Executive Committee of SWGTOX remains composed of Marc LeBeau, Bruce Goldberger, Laurel Farrell and Jeri Roper-Miller. The Secretary of SWGTOX is Madeline Montgomery.

The next meeting of SWGTOX is scheduled to occur in August, 2012.

AMERICAN BOARD OF FORENSIC TOXICOLOGY (ABFT) NEWS

Submitted by Marina Stajić, Ph.D., DABFT, President

ABFT has engaged services of an Executive Director to assist the Board with various administrative tasks related to laboratory accreditation and certification. We welcome Dr. Bradford Hepler to this newly created position and we look forward to working with him.

At the ABFT annual meeting in February 2012, the following Directors were elected to a three year term (July 1, 2012 – June 30, 2015):

Bruce Goldberger, Ph.D., D-ABFT
Graham Jones, Ph.D., D-ABFT
Brad Hall, Ph.D., D-ABFT
Susan Mills, M.S., FTS-ABFT
Jeri Roper-Miller, Ph.D., D-ABFT

The above re-elected and newly elected Directors join the following Directors currently serving their respective terms:

Yale Caplan, Ph.D., D-ABFT
Daniel Isenschmid, Ph.D., D-ABFT
Frederick W. Fochtman, Ph.D., D-ABFT
Loralie Langman, Ph.D., D-ABFT
Robert Middleberg, Ph.D., D-ABFT
Theodore F. Shults, J.D., M.S, Public member
Elizabeth Spratt, M.S., D-ABFT
Ruth Winecker, Ph.D., D-ABFT
Marina Stajić, Ph.D., D-ABFT

Director Logan will be leaving the Board on June 30, 2012, having indicated that he does not wish to be considered to serve another term. The Board joins me in expressing

our gratitude to Dr. Logan for many years of his dedicated service to the Board.

The Board officers elected in February 2012 to a one year term (July 1, 2012 – June 30, 2013) are:

President

Bruce Goldberger, Ph.D., D-ABFT

Vice President

Daniel Isenschmid, Ph.D., D-ABFT

Secretary

Jeri Roper-Miller, Ph.D., D-ABFT

Treasurer

Loralie Langman, Ph.D., D-ABFT

I would like to thank the Board for allowing me the honor of serving as its President for the past four years.

CONGRATULATIONS to our colleagues who have successfully met

ABFT NEWS (CONTINUED)

all the requirements and joined the ranks of ABFT Certificants:

Tara M. Catlin, B.S., FTS-ABFT
 Jenna M. Chin, M.S., FTS-ABFT
 Adam Negrusz, Ph.D., D-ABFT
 Brianna Peterson, Ph.D., D-ABFT
 Michael P. Stypa, M.S., FTS-ABFT
 Duncan W.S. Stephen, Ph.D., D-ABFT

Dr. Stephen of Royal Aberdeen Infirmary, Fosterhill, Aberdeen, United Kingdom is the first to achieve the Diplomate status since ABFT eliminated the USA/Canada residency requirement for certification. We hope to welcome many more international colleagues in the future.



CONGRATULATIONS to the staff of the following laboratories on successfully meeting all the ABFT requirements for laboratory accreditation:

Forensic Toxicology Laboratory
 Office of the Chief Medical Examiner, Washington, D.C.

Forensic Toxicology Laboratory
 Bio-Tox Laboratories
 Riverside, CA 92507

REMINDERS:

Effective January 1, 2011, all accredited laboratories are required to submit an annual accreditation fee of \$3500 regardless of whether it is a mid-cycle or on-site inspection year. A separate application

fee will no longer be required from accredited laboratories.

Effective January 1, 2010, all ABFT accredited laboratories will be required to subscribe to both the FTC (Toxicology) and the T-series proficiency tests of the College of American Pathologists (CAP). Laboratories will be required to complete all challenges for the FTC set for which the laboratory has established, validated methods. All of the laboratory's usual screening and confirmation tests will need to be completed for the T-series, plus those quantitative challenges for which the laboratory has routine methods. Results must be returned to CAP within the reporting period. In addition, laboratories must subscribe to the CAP AL1 Whole Blood Alcohol program or comparable program(s) with an equivalent number of challenges for ethanol and related volatiles. Laboratories are encouraged to continue participation in any other proficiency test programs to which they currently subscribe.

ABFT Board of Directors has restructured the certification application, re-certification application and continuing education fees. Effective January 1, 2009, a non-refundable fee of \$150 will be applied to all new applications, replacing the previous \$300 fee. The re-certification fee of \$300 is no longer required every five years. Instead, a fee of \$100 is required with the annual submission of continuing education credits. Certificants will still need to submit a re-certification application every five years in order to remain in good standing.

ABFT no longer has the USA/Canada residency requirement for certification. All other requirements remain the same. The examination is administered (in English only!) twice each year, at the American Academy of Forensic Sciences (AAFS) Annual Meeting and at the Society of Forensic Toxicologists (SOFT) Annual Meeting. Additionally, a candidate may request to have an examination administered at a different location under the direction of a member of the Board of Directors. We welcome and encourage our international colleagues to consider applying for ABFT certification. Please visit www.ABFT.org for more information.



HAVE YOU PAID YOUR SOFT ANNUAL DUES ?

The deadline date for the annual SOFT membership dues for 2012 was February 29. There are still many SOFT members with remaining unpaid dues. Those with unpaid dues or those who are unsure if their annual dues are paid should call the SOFT Office (toll free 888-866-7638) for a confirmation of how to proceed.

The annual Directory will soon be distributed by mail in a print format, using current contact information gleaned from the returned annual dues forms.

CONSORTIUM OF FORENSIC SCIENCE ORGANIZATIONS

MARCH, 2012

NRC Report plus 37 months

LEGISLATIVE UPDATE

Welcome to the first monthly newsletter of the Consortium of Forensic Science Organizations CFSO. We hope to provide you timely information on the budget and federal legislation as it pertains to State and Local forensic science. This issue will be dedicated to the President's Proposed FY13 budget. We hope you enjoy this and look forward to any thoughts or ideas you may have for us to include in upcoming editions.

NAMES OF CFSO REPRESENTATIVES

Pete Marone, Chair,
ASCLD/LAB Representative

J. C. (Jamie) Upshaw Downs,
Vice Chair, NAME Representative

Kenneth F. Martin, Treasurer,
IAI Representative

Jill Spriggs, Secretary,
ASCLD Representative

Robert E. Barsley, DDS, JD,
AAFS Representative

Laurel Farrell,
SOFT/ABFT Representative

Beth Lavach,
Legislative Liaison

THE FY13 DOJ BUDGET

The Department of Justice submitted the following budget for FY13:

- \$48m for NIJ Research
- \$430m for Byrne Justice Assistance Grants
- \$25m for Byrne Competitive Grants
- \$20 Byrne Criminal Justice Innovation Grants
- \$20m for Evidence-Based Competitive Discretionary Grant Program
- \$100m DNA Imitative
- \$0 Coverdell Forensic Science Grants

The CFSO continues to be concerned that the Department of Justice does not fund the Coverdell grants despite the many requests of the community. We will continue to work with Congress to educate the key decision-makers that there are numerous disciplines within forensics and that all are critical to serving the criminal justice system in a efficient and effective matter.

Of note, the Attorney General testified this week in the House and will testify in the Senate next week on this budget.

FORENSIC ADVANCEMENT

The discussion among policy-makers to advance forensic science continues and 2012 will see a great deal of activity on this issue. Here is the update:

Senate Judiciary Committee

Senate Leahy continues to work toward legislation that they can move through the Senate and has recently provided some conceptual edits to the existing bill to the CFSO. These edits are being incorporated into the legislation and are expected to be released in March. We will work with our Membership to gather your edits to those changes to move the legislation closer to the needs of the community.

Senate Science Committee

Senator Rockefeller continues to discuss the drafting of legislation and we are in discussions with the staff about the concerns of the forensic service provider community.

Stay tuned for hearing schedules

CONSORTIUM OF FORENSIC SCIENCE ORGANIZATIONS

MARCH, 2012

NRC Report plus 37 months

The budget process is often compared to sausage making and in some respects it is an accurate analogy. It is difficult for many to understand what the budget really is as it does have numerous stages of debate. In theory this is to ensure that it is the budget the people need and want for the country.

Below are those milestones as they are supposed to occur:

February:

- President submits budget request to Congress.

February/March:

- DOJ officials testify in front of Congress to support the budget request
- Appropriations Committees conduct hearings with outside witnesses to discuss budget request.

May:

- Budget Committees adopt a budget resolution.

June/July/August:

- House and Senate prepare and pass appropriations bills.

September:

- House and Senate reconcile differences and agree to a final appropriation bill.
President signs or vetoes final bills.

October

- Beginning of fiscal year.

SOFT and ABFT are members of CFSO. CFSO has introduced a monthly newsletter. This is reproduced at the request of the SOFT President and with permission of CFSO.

CONSORTIUM OF FORENSIC SCIENCE ORGANIZATIONS

APRIL, 2012

NAS plus 38 months

LEGISLATIVE UPDATE

CFSO BOARD MEMBERS

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Well as the saying goes, March came in like a lion and went out like a [very warm] lamb, but not in forensic science. Rather it stayed a lion. As congress moved toward a spring recess they left in their wake a sea of forensic science issues. This is not entirely unexpected though, as many things are up for reauthorization and it is appropriations season, so we have been very busy providing Congress with the positions of the forensics community on various pieces of legislation and advocating for funding to be added to the budget for the Paul Coverdell grant program as well as continuing our dialogue with the Senate and House Judiciary Committees on the S 132.

Appropriations

As you know, the Membership of the Consortium have all signed on to a letter of support to not only add funding to the budget for the

Paul Coverdell Act but also to request that a more transparent and process driven approach be taken toward developing the budgets for the forensic community. Your organization should have already sent you the letter with a request to send to your Member of Congress attached to a cover letter from you, outlining your own local concerns and need for this funding. It is important to know that this is 1) timely and must go to your Member of Congress soonest, 2) it cannot be mailed in the US Postal system as it will never get to the key person. Rather fax it or email it to the appropriate staff in the Member's office and 3) a copy of your cover letter should be sent back to the CFSO so that we can provide it to the key staff on the Appropriations Committee. We have received many of these letters already and thank you for all your efforts and moving so quickly.

Violence Against Women Act

This legislation when originally passed, as with all legislation, had

a timeframe attached to it. The timeframe is set to expire, so Congress is re-authorizing it for another 5 years and in the process of that, considering new amendments and components of the bill that may need improvement or may not have been included in the original bill. One of those amendments that are being discussed is the SAFER (Sexual Assault Forensic Registry Act) Act. The SAFER Act will provide a national registry for rape kits and create best practices for the processing of rape kits, both in the law enforcement agencies as well as the laboratories. We have been actively engaged with Senator Comyn's office discussing the goals of this Act and how best to implement them within the operational setting of the crime laboratory. While the discussion is primarily in the Senate right now it will move to the House soon. We will keep you apprised of the details and the progress of these discussions in the event that we need your assistance in providing your Member of Congress any talking points on how it will affect his/her crime lab or law enforcement agency.

Justice For All Act

Although this bill is not formally up for discussion right now it will

be up for re-authorization again and we are told that it will be brought up for discussion in the Senate soon after Spring recess. As such we are reviewing the previous bill and discussing with staff our concerns with Coverdell and other programs on in this bill. On a positive note, we have already been informed that the Senate will attempt to increase the amount for Coverdell funding in this re-authorization bill.

Senate Science Committee

As you know, the Senate Science Committee has also begun discussions on the matter of forensic science. In particular, they are interested in research and standards. Senator Rockefeller, the Chair of the Committee, is expected to release legislation shortly. We have had numerous discussions with the Majority and Minority of this Committee about the positions of the forensic community. We have provided our various organizations' original NAS position papers and responded to questions. The Ranking Member of the Committee requested a briefing from his Crime Lab last month and we were invited to attend. We were fortunate enough to have over an hour with Senator Boozman and provided him an

overview of our memberships' original positions on the NAS study and he is reviewing them and providing questions to us on a regular basis. We are working toward a visit to a Crime Lab, law enforcement agency and Medical Examiner's office for the Committee staff.

S132

We continue to meet with Senator Leahy's staff on his legislation and he continues to listen to our input. As you know, this legislation encompasses issues that affect all disciplines, laboratories, agency operations, and individual examiners. We expect to have the next draft for review shortly and are hopeful that we can help the Senator move it to markup if we are comfortable with the changes that he has made.

As always if you have questions or ideas and would like more detail about the legislation we have discussed please don't hesitate to call or email us.

Coming in May: Forensic FY13 budget preview

SOFT and ABFT are members of CFSO. CFSO has introduced a monthly newsletter. This is reproduced at the request of the SOFT President and with permission of CFSO.



SOCIETY OF FORENSIC TOXICOLOGISTS

ETHICS PROCEDURES

(APPROVED 6/24/2011)

1. It is the Society of Forensic Toxicologists, Inc. (SOFT) goal to have all complaints of an ethical nature resolved in a timely manner. The Ethics Committee shall recommend a course of action to the Board of Directors, who will make the final determination. Chapter II, Section 3.C of the SOFT By-Laws sets forth the responsibilities of the Ethics Committee related to Termination of Membership. Chapter V, Sections 3 A&B set forth the composition and duties of the Ethics Committee. As required in Chapter V, Section 3.B, the operating procedures of the Ethics Committee herein contained shall be approved by the Board of Directors. Warrants to ethical conduct and understanding of possible consequences related to substantiated unethical conduct are collected from Applicants for membership using the SOFT application form and annually from current members.

2. Ethics Committee

2.1. This committee shall comprise five Members in good standing of SOFT, to be appointed by the SOFT President with approval of the Board of Directors.

2.1.1. The members of this committee are limited to Full Members and Retired Members. The SOFT President serves as an ex officio member of the Ethics Committee.

2.1.2. The standard 3-year term of office for committee members shall be staggered to insure continuity. In the first year of this committee, two members shall be appointed for three years, one member for two years, and two members for one year terms. All terms will commence January 1 and conclude December 31.

2.1.3. There shall be no limit upon the number of terms, consecutive or otherwise, which a committee member may serve.

2.1.4. In accordance with the SOFT By-Laws, the Chair of the Ethics Com-

mittee shall be appointed by the SOFT President.

2.1.5. A member of the Ethics Committee may recuse themselves from a particular investigation should there be a conflict of interest.

2.2. The Ethics Committee shall be responsible for the following:

2.2.1. Reviewing and recommending changes to the Code of Ethics, Guiding Principles of Professional Responsibility, and Ethics Procedures.

2.2.2. Reviewing all complaints received which specify a violation of the Code of Ethics. Complaints will be considered by the Ethics Committee when conduct is alleged which violates the Code of Ethics. (Appendix 1)

2.2.3. Upon review of complaints, the Committee shall be responsible for recommending a course of action to the Board of Directors. The final decision on all Committee recommendations shall rest with the Board of Directors, as enumerated herein.

2.3. Communications pertaining to a complaint are handled as follows:

2.3.1. In order to facilitate the timely review of complaints, electronic communications and remote meetings between members of the Board of Directors and/or the Ethics Committee are permitted in accordance with Chapter IV, Section 4 (B) of the Bylaws unless specified otherwise in these Procedures.

2.3.2. A copy of all correspondence sent to the complainant, shall be sent by certified mail to the respondent on the same date to the member's address listed on file. No information in the correspondence shall be redacted.

3. Enforcement Procedures

3.1. In accordance with the By-Laws, an ethics complaint regarding a member of SOFT must be submitted in writing to the SOFT President. Once receipt is acknowledged and the next consecutive case number is assigned - the SOFT President (who maintains a photocopy) shall forward the original

complaint to the SOFT Administrative Assistant.

3.2. The SOFT Administrative Assistant shall acknowledge the receipt of the letter of complaint by Certified Mail to the complainant (that individual by whom a complaint has been made concerning professional conduct) within ten business days (SOFT Ethics Form 1). The respondent (a Member of SOFT against whom a complaint has been made) shall also be notified of the complaint by Certified Mail at the address on file for the respondent with the SOFT Administrative Office.

3.3. The SOFT Administrative Assistant shall also transmit the certified mail receipt and a copy of the respondent's file to the Ethics Committee Chair.

3.4. The Ethics Committee Chair evaluates the complaint as to:

3.4.1. A need for clarification of the complaint or for additional information.

3.4.1.1. If clarification or additional information is needed from the complainant, the Chair mails a copy of the Request for Additional Information letter (SOFT Ethics Form 2) by Certified Mail to the complainant.

3.4.1.2. If additional information is needed from any other SOFT Committee, the Ethics Committee Chair is to request this information from the appropriate Chair.

3.5. If the Ethics Committee Chair is satisfied there is sufficient written information to proceed, he/she notifies the complainant by Certified Mail using the Letter of Intent to Proceed (SOFT Ethics Form 3) and completes the appropriate information on the Report of Professional Misconduct form (SOFT Ethics Form 4). A copy of this communication shall also be sent to the respondent.

3.6. The Ethics Committee Chair mails copies of the letter of complaint, the respondent's file, the Report of Pro-

SOFT ETHICS PROCEDURES (CONTINUED)

Professional Misconduct form, and any other relevant information to the committee members.

4. Review and Investigation:

4.1. The Ethics Committee members evaluate the complaint to determine whether the Ethics Committee has jurisdiction to address the Complaint.

4.2. If the Ethics Committee determines it does not have jurisdiction over a particular complaint, the complainant shall be notified by the Ethics Committee Chair by Certified

Mail within thirty days from the date of such determination (SOFT Ethics Form 5). A copy of this correspondence is sent to the respondent by Certified Mail.

4.2.1. A copy of SOFT Ethics Form 5 and the certified mail receipt shall be transmitted to the SOFT Administrative Assistant for addition to the respondent's SOFT file.

4.2.2. The Ethics Committee Chair shall make a report of the recommended resolution of the complaint to the Board of Directors at the next scheduled meeting.

4.2.3. The Administrative Assistant will notify the complainant by Certified Mail using SOFT Ethics Form 6 of the Board of Directors' decision within ten business days of the meeting at which the complaint was considered. The respondent receives a copy of this communication by Certified Mail.

4.2.4. A copy of SOFT Ethics Form 6 and the Certified Mail receipt will be maintained by the SOFT Administrative Assistant in the respondent's file.

4.2.5. Disposition of records related to Ethics complaints shall be governed by section 7 *et seq.* of these Procedures.

4.2.6. If the Ethics Committee determines it does have jurisdiction, the next step taken is to determine whether the complaint has merit.

4.3. If the complaint is without merit:

4.3.1. If the Ethics Committee determines the complaint is without merit:

4.3.1.1. The complainant is notified by the Ethics Committee Chair by Cer-

tified Mail within thirty days of the Committee's determination that the complaint is without merit (SOFT Ethics Form 7).

4.3.1.2. The respondent shall be advised by the Ethics Committee Chair by Certified Mail of the complaint and of its proposed disposition (SOFT Ethics Form 8).

4.3.1.3. A copy of SOFT Ethics Form 8 and the certified mail receipt are mailed to the SOFT Administrative Assistant for addition to the respondent's file.

4.3.1.4. The Ethics Committee Chair will make a report to the Board of Directors of the recommended resolution of the complaint at the next scheduled meeting.

4.3.1.5. The Administrative Assistant



will notify the complainant and the respondent by Certified Mail using SOFT Ethics Form 6 of the Board of Directors' decision within ten business days of the meeting at which the complaint was considered.

4.3.1.6. A copy of SOFT Ethics Form 6 and the Certified Mail receipt will be maintained by the SOFT Administrative Assistant in the respondent's file.

4.3.1.7. The complaint record will be expunged 3 years after the date it is determined to be without merit.

4.4. If the complaint has merit:

4.4.1. If the Ethics Committee determines the complaint has merit:

4.4.1.1. the Ethics Committee Chair

will select a date and time for a meeting of the Ethics Committee at which the complaint will be considered.

4.4.1.2. Paragraphs 5 and 6 shall be followed when the Ethics Committee determines the complaint to have merit.

5. Ethics Committee Meeting.

5.1. Once the Ethics Committee determines that it has jurisdiction and that the complaint has merit, the complainant, respondent, and the President of the SOFT will be notified about the nature of the complaint, about the rights of the parties involved to submit written statements for consideration at this meeting, and about the date and time set for the Ethics Committee meeting (SOFT Ethics Form 9 and SOFT Ethics Form 10). The complainant and respondent shall be notified by Certified Mail.

5.2. This notification by the Ethics Committee Chair must occur at least 30 days prior to the meeting at which the complaint is to be discussed.

5.3. The complainant and the respondent shall be permitted to provide written submissions to the Committee in advance of the meeting, but shall not, unless expressly permitted by this Committee Chair, be permitted to attend this meeting in person or telephonically. All written submissions from the complainant and the respondent (or their representatives) must be received by the Ethics Committee Chair at least seven days prior to the meeting at which the complaint is to be addressed.

5.4. The Ethics Committee Chair shall provide a written report on the outcome of the meeting to the President within 30 days from the date of the Ethics Committee meeting at which the complaint was addressed.

5.5. The report shall present a concise summary of the facts for both parties, including the rule(s) on which the complaint is based.

5.6. The report and its contents shall be treated as confidential and not publicized.

5.7. This process may be suspended

SOFT ETHICS PROCEDURES (CONTINUED)

at any time in the discretion of the Ethics Committee Chair if it becomes known that the circumstances surrounding the complaint are subject to criminal or civil litigation or review by another competent body, pending final resolution. The complainant, the respondent (or their representatives), and the President of SOFT are to be notified of such action by Certified Mail (SOFT Ethics Form 11).

5.8. If the respondent relinquishes his/her SOFT Membership upon notification of the complaint by the Ethics Committee Chair, the Ethics Committee will still meet and issue a written report to the SOFT President and Board of Directors. If the respondent reapplies for Membership at some time in the future, then the respondent will be renotified of the complaint by the Ethics Committee Chair (upon notification of reapplication by the SOFT Administrative Assistant), and the process may resume at that point.

6. Board of Directors Hearing

6.1. Upon receipt of the report from the Ethics Committee, the President of SOFT shall schedule a hearing on the complaint in conjunction with the semi-annual SOFT Board of Directors meeting. A member of the Board of Directors may recuse themselves from

a particular investigation should there be a conflict of interest. This hearing will be held prior to the Board of Directors meeting when possible. If necessary, the President of SOFT may schedule a hearing on the complaint outside of the regularly scheduled semi-annual meetings.

6.1.1. The complainant, the respondent (or their representatives), the Ethics Committee members, and the Board of Directors of SOFT will be notified by Certified Mail by the President regarding the date, time, and place of the hearing; about their right to be present at the hearing; about their right to call witnesses on their behalf; and about the nature of the complaint. They will receive copies of the Ethics Committee report and a

copy of the SOFT Ethics Procedures, as outlined herein. The complainant, respondent, or their representative(s) shall be notified by Certified Mail.

6.1.2. This notification by the President shall be made at least 60 days prior to the hearing (SOFT Ethics Form 12). The respondent, the complainant (or their representatives), and any witnesses they wish to call, must give written notice by Certified Mail to the President at least 15 days prior to the hearing regarding whether they intend to appear in person before the Board of Directors; whether they intend to



be represented and, if so, the name of any persons who will be representing them; whether any witnesses are to be called and, if so, their names; and a copy of all of the documents on which a respondent, a complainant, their representatives, or any witnesses propose to rely at the hearing.

6.1.2.1. Any notification or documentation received less than 15 days prior to the hearing date may not be considered by the Board of Directors.

6.1.3. The SOFT President will preside over the hearing and shall ensure the orderly conduct of the hearing, the testimony of witnesses and receipt of evidence. The SOFT President may engage counsel for advice and guidance with approval of the Board of Directors.

6.1.3.1. The President is to appoint a clerk to keep confidential minutes of the hearing or to transcribe the hearing. Any member of the Board of Directors may ask questions of any witness giving evidence at the hearing. The President may suspend the pro-

ceedings at any time.

6.2. At the conclusion of the hearing, the Board of Directors shall deliberate in private until it has reached a decision. The decision will be by simple majority, with the President voting only in the event of a tie. The Board of Directors may confer with legal counsel at any point during their deliberations.

6.2.1. The outcome of the Board of Directors' deliberation will be one of the following:

6.2.1.1. The complaint is dismissed. No further action is to be taken.

6.2.1.2. The complaint is upheld but no action by the Board of Directors is required. The complaint has been dealt with in a constructive manner.

6.2.1.3. The complaint is upheld and specific action for resolution has been determined by the Board of Directors which may include:

6.2.1.3.1. A letter of reprimand;

6.2.1.3.2. Temporary suspension of Membership for a specified time period;

6.2.1.3.3. Revocation of Membership and bar from reapplying with SOFT for a specified time period; or

6.2.1.3.4. Revocation of Membership and permanent bar from reapplying for membership with SOFT.

6.2.1.4. The decision of the Board of Directors shall be final and there shall be no further appeals permitted. All records associated with the ethics complaint shall remain confidential unless release is required by Section 7.3.

6.2.2. The Administrative Assistant of SOFT will notify the respondent, the complainant (or their representatives), and Ethics Committee members by Certified Mail of the action taken by the Board of Directors regarding the complaint within ten (10) business days of its decision (SOFT Ethics Form 6). The complainant, respondent, or their representative(s) shall be notified by Certified Mail.

6.2.3. A copy of SOFT Ethics Form 6 and the certified mail receipt are maintained in the respondent's file.

7. Filing and Disposition of Records

SOFT ETHICS PROCEDURES (CONTINUED)

7.1. All documents related to Ethics complaints shall remain confidential upon completion of the administrative actions contained herein, but may be released if required by Section 7.3.
 7.2. Records related to Ethics complaints shall be maintained and subject to disposition in accordance with

normal record-keeping practices of SOFT.
 7.3. The release of records related to Ethics complaints shall be made only in cases of written request by a competent authority demonstrating a legitimate need to know the contents thereof. If such a request is received, the matter will be satisfied or resolved

by the Board of Directors with necessary support from the SOFT Administrative Assistant.
 7.4. A summary of activities related to records retention and review under this section will be provided by the Ethics Committee Chair as part of her/his normal periodic report to the Board of Directors.

Toxicology Crossword Puzzle

Across

- 1 Encrypted pain medication ?
- 5 The woman in the morning is poisonous
- 7 Hair product causes cohesion
- 9 Drug produced initially, by Ken's approximate appearance in the pit
- 12 Woodland home for computer giant ?
- 14 Oral fluid POC test manufacturer (one of many)
- 17 Yes, a backward medic cures pain using an oxidant

Down

- 1 The middle of this reference book is a joke
- 2 PhD goes off to the side for first attempt
- 3 Could describe "beating around the bush"
- 4 Lock-up spot for genetic material
- 6 Erik and Alrik's fake father
- 8 The electric version is in the Amazon
- 10 One description of hardest element (1,4)
- 11 39th most populous state, more potatoes than people
- 13 Untruth leads to security interest
- 14 Lizzie Borden's weapon of choice
- 15 Internet country code for vodka, coffee and cream ?
- 16 Famous Doctor
- 18 Rare symbol for Group 10 metal

1		2		3				4
5						6		
						7	8	
9			10		11			
					12			13
		14	15		16			
17					18			

This Toxicology Crossword Puzzle was submitted by
Christine Moore, Ph.D., DABCC



- Answers**
- 2. Draft
 - 1. Codeine
 - 3. Idiom
 - 4. Cell
 - 5. Amanita
 - 6. Agne
 - 7. Gel
 - 8. Ell
 - 9. Ketamine
 - 10. Arock
 - 11. ID
 - 12. Dell
 - 13. Lien
 - 14. Abon
 - 15. Bx
 - 16. No
 - 17. Oxycodone
 - 18. DS
 - 1. Clarke

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ToxTalk Deadlines for Contributions:

April 1 for June Issue

August 1 for September Issue

November 1 for December Issue

February 1 for March Issue



Future S.O.F.T. Meeting Destinations:

2012: Boston, MA.....July 1-6, 2012.....Michael Wagner/Colleen Scarneo

2013: Orlando, FL.....Oct. 26-Nov. 3, 2013..... Bruce Goldberger

2014: Grand Rapids, MI.....Oct. 18-25th, 2014.....Ben Kuslikis/Michael Smith

2015: Atlanta, GA.....Oct. 17-25th, 2015.....Robert Sears

2016: Dallas, TX.....Oct. 15-23rd, 2016.....Chris Heartsill/Erin Spargo

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