



SAT Newsletter

News of the Southwestern Association of Toxicologists

Volume 22 , Number 2

Fall 2000

Oklahoma City, Oklahoma



You are cordially invited to attend and participate in the 2000 Fall Meeting of the Southwestern Association of Toxicologists. The meeting will be held November 2-4, at the Westin Hotel in Oklahoma City close to the historic Bricktown area.

Plan to arrive early Thursday for a tour of the Oklahoma City National Memorial. We will climb aboard the Trolley at 4 p.m to travel to the Memorial site.



Join old friends and meet new ones at the President's Reception Thursday evening from 6:30 p.m. to 8:30 p.m.

The theme of our fall meeting will focus on the regulation of Drug Testing Labs, Medical Examiner's labs, Forensic (criminal) Labs, and Horse Testing Labs. The culmination of this subject will be a round table on Saturday morning. Bring your questions and dilemma's to address to the round table participants on any aspect of Regulation, On-Site Inspections, Proficiency Testing, etc.

Friday afternoon Gary Murphy from Agilent Technologies will be presenting a workshop on GC/MS Maintenance and Troubleshooting.



Friday evening we will travel by trolley to the historic Bricktown district to eat at Bricktown Brewery. Our keynote speaker will be Herman Jones Ph.D. speaking on Inhalant Abuse.

Hotel Information

Our Fall Meeting of the Southwest Association of Toxicologists will be held in downtown Oklahoma City at the Westin Hotel, One North Broadway, Oklahoma City, Oklahoma 73102 (1-800-285-2780).

Rooms are available to meeting attendees at a special rate of \$69.00 (9.375% tax not included) per night single or double occupancy. Reservations must be made no later than October 1, 2000. When making reservations, you must identify yourself as an attendee of the meeting of the Southwestern Association of Toxicologists.

Travel Information

Oklahoma City is located at the junction of I-35 and I-40 if you're traveling by car.

Will Rogers airport is a major airline hub.

Amtrak offers a \$48.00 round trip fee from Fort Worth to Oklahoma City. Call (1-800-872-7245.)

Questions?: Please contact Nancy Gowen Kropp or Mike Fowler at 405-272-6951 or 6545, or email at krop@qns.com.

**SOUTHWESTERN ASSOCIATION OF TOXICOLOGISTS
2000 Fall Meeting
November 2-4, 2000**

**The Westin Hotel
Oklahoma City, Oklahoma**

TENTATIVE MEETING SCHEDULE

Thursday, November 2, 2000

3:00 p.m. – 6:00 p.m.	Registration
4:00 p.m.	Tour of the OKC Bombing Memorial
6:30 p.m. – 8:30 p.m.	President's Reception
8:30 p.m.	Dinner & Entertainment on your own

Friday, November 3, 2000

8:00 a.m.	General Business Meeting
9:00 a.m. – 2:30 p.m.	Scientific Sessions
3:00 p.m. – 5:00 p.m.	GC/MS Workshop
7:00 p.m.	Meal in Bricktown
	keynote speaker = Herman Jones Ph.D. on Inhalant Abuse

Saturday, November 4, 2000

8:30 a.m. – 10:00 a.m.	Scientific Sessions
10:30 a.m. – 12:00 p.m.	Round Table

SOUTHWESTERN ASSOCIATION OF TOXICOLOGISTS

2000 Fall Meeting

November 2-4, 2000

The Westin Hotel

Oklahoma City, Oklahoma

REGISTRATION FORM

Name (As it will appear on badge) _____

Phone: _____ FAX: _____ Email: _____

Title: _____

Agency: _____

Address: _____

SAT Member: _____ Non-Member: _____

MEETING REGISTRATION:

Please register by October 1, 2000 to avoid late fees! Registration includes admission to all scientific sessions, workshops, exhibits, and the President's Reception.

	Member	Non-member	Student	Total
Prior to Oct. 1st:	\$40.00	\$45.00	\$15.00	_____
After Oct 1st:	\$45.00	\$55.00	\$ 25.00	_____
Extra Meal Tickets	\$15.00			

TOTAL ENCLOSED: _____

Note: Registration fee will be waived for paper presenters.

I plan to attend the Tour of the OKC Memorial Yes []
No []

Please make payment by check or money order, payable to SAT, and mail to:

**Valorie Rawlings
University Hospitals
P.O. Box 26307
Room EB 400
Oklahoma City, OK 73126**

HOTEL INFORMATION:

**The Westin Hotel
One North Broadway
Oklahoma City, Oklahoma 73102
1-800-285-2780**

**SOUTHWESTERN ASSOCIATION OF TOXICOLOGISTS
2000 Fall Meeting
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Oklahoma City, Oklahoma**

CALL FOR PAPERS

Please complete the following form and submit along with a copy of your abstract (200 words or less). Please submit form and abstracts prior to October 7, 2000.

Please Print or Type:

Author(s): _____

Title: _____

Agency: _____

Address: _____

Telephone: _____ Fax: _____ E-mail: _____

AV Equipment Required: _____ 35 mm Slide Projector
 _____ Overhead Projector
 _____ LCD Projector (Power Point PC Presentation)
 _____ Other (please specify)

Time slots will be 20 minutes unless otherwise requested.

Please return completed form and abstracts to:

Nancy Gowen Kropp M.T. (ASCP)
St. Anthony's Hospital
Toxicology Lab
1000 North Lee, Box 205
Oklahoma City, Oklahoma 73102

405-272-6951 or 6545
405-231-3702 (FAX)
email = krop@qns.com

Meeting Grants Application

The SAT Meeting Grant (\$300.00 plus meeting registration) may be awarded to two individuals per meeting (at the approval of the board). It may be applied toward the current meeting or one of the next two meetings.

Guidelines for Meeting Grant:

SAT Member in good standing.

Presenting paper at meeting.

Non-supervisory position.

Sponsoring letter from laboratory or section manager.

Application for the SAT Meeting Grant should be forwarded to:

Lorie A. Flores
9302 Antworpe Cove
Houston, TX 77070

Phone: (281) 374-6063.

email Loriaflores@yahoo.com

Applicant's

Name: _____

Position: _____

MailingAddress: _____

Phone: _____

Sponsor: _____ Title: _____

NOTE: Title and abstract must be received by program chair prior to application.

Applicant Signature: _____

Date: _____

Date Application received: _____

SAT member verified: _____

Recommendation of committee: _____ Approve _____ Disapprove

Action of Board: _____ Fund _____ Do Not Fund

Date: _____

Southwestern Association of Toxicologists
Board of Directors:

President:
2000-2001

Michael Carlo, Ph. D.
124 Kilt Road
San Angelo, TX 76901-9512
(915) 942-0263

President-Elect:
2000-2001

Lori A, Flores
9302 Antwerp Cove
Houston, TX 77070
(281) 374-6063

Past President:
1999-2000

Robert Rodriguez
Bexar Co. Forensic Sciences Center
7337 Louis Pasteur Dr.
San Antonio, TX 78229
210-335-4033

Secretary:
1999-2001

Sheryl Peyton
TX Department of Public Safety
P.O. Box 4143
Austin, TX 78765
512-424-2105

Treasurer:
2000-2002

Robert G. Schoenfeld, Ph.D.
7204 Aztec Road, N.E.
Albuquerque NM 87110
505-884-4997

Counselor:
2000-2002

Mike Frontz
Bexar County Forensic Sciences Center
73337 Louis Pasteur Dr.
San Antonio, TX 78229
210-335-4031

Counselor:
2000-2001

Chris Heartsill
Dallas Co. Inst. Of Forensic Sciences
5230 Medical Center Drive
Dallas, TX 75235
214-920-5810

Membership Chair:

Brenda Snodgrass
519 Fleetwood Dr.
Norman, OK, 73072
Wk 405-360-6103 hm. (405) 521-3864

Past President's Message

I will remember presiding as President of SAT with fondness. It is not to often a bench chemist gets that opportunity. It is a true distinction of our organization in allowing all levels in our field to share in the leadership of SAT. Time flies when you're having fun; and being your president was fun as well as an honor and a privilege. I would like to thank the members of the Board, the membership, and all parties who have made my presidency an enjoyable experience.

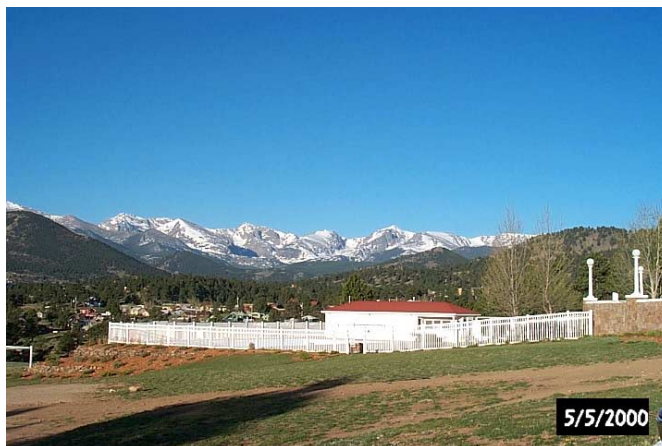
Speaking of experiences, our Spring Meeting in Estes Park, Colorado was great!!! I realize we did have a smaller than usual turnout. But the format presented was typical in style and quality so characteristic of all SAT Meetings. Our sincere thanks to Petra Hartman, Marcia Loveless, and Lisa Mullen for providing us with a great program, An Immunalysis Workshop plus several scientific papers covering topics in SPE, Toxicology, Analysis Techniques, and Case Reports were topped off with the great scenery of the Rocky Mountains.

I would like to take this opportunity in letting the membership know that an increase in dues will go into effect after this fiscal year. Please do not think that this was due to our Colorado meeting!!! Our organization was created to attract scientists in Toxicology, Drug Testing, and related fields. In the past, students presenting papers or just attending our meetings were charged for registration. This practice will no longer be a part of SAT Meetings. We want to encourage these future scientists to join our organization. An open invitation is a great way to let them know what SAT is all about.

In addition, the registration fee and the charge for the Friday noon meal members presenting papers will be waived. This is to encourage members to present more papers at a meeting. Also, a room will be provided for host if he/she chooses to stay at the meeting site.

Our next meeting will be in Oklahoma City. It will be hosted by Nancy Gowen Kropp of St. Anthony's Hospital and Phil Kemp of the Oklahoma Medical Examiner's Office. These are two dedicated individuals in the field of Toxicology and Drug Testing. A round table discussion on Laboratory Certification is on the agenda plus a keynote speaker on Inhalant Abuse. Some time will be provide for those members wishing to visit the Oklahoma Bombing Memorial Oklahoma is a great state and an ideal place to host our next SAT Meeting. We hope to see a good turnout for this meeting!

Robert G. Rodriguez



President's Message

As your incoming President, I want to first thank you for giving me the opportunity to serve SAT as your President this year. It will be a privilege to do so.

The Spring meeting in Estes Park, Colorado was well-planned and well-run. Many thanks go to Petra Hartman and her co-workers for the work they did in putting together a truly good meeting in beautiful surroundings (I never did see any ghosts in the hallways!)

At the Estes Park meeting, the SAT Board of Directors voted to increase member dues from \$20.00/year to \$30.00/year beginning July 1, 2001. The reason for the dues increase is two-fold. One is to keep the meeting registration fees as low as possible so as many SAT members as possible can attend each bi-annual meeting even though the cost of each meeting is increasing. And two in order to continue providing two \$300.00 meeting grants at each meeting. Both, in the opinion of the Board of Directors, are necessary to encourage and make possible for as many SAT members as possible to attend each meeting.

Congratulations to Mike Frontz (Bexar County Medical Examiner's Office, San Antonio, TX) and Darrell Eubanks (Texas Tech University Lubbock, TX) who were recipients of the meeting grants at the Spring meeting. Also, a special congratulations to Darrell who success fully defended his Ph. D. dissertation this summer and is now Dr. Eubank!

My gratitude and thanks to Robert Rodriguez who did a truly outstanding job as President of SAT this past year. Many thanks, Robert!

Any Suggestions, comments, or complaints you have concerning any aspect of SAT, please do not hesitate to contact me (Phone: 877-626-6539; FAX: 915-942-0777, email: mcarlo@gte.net). I am looking forward to seeing you in Oklahoma City this fall!

Michael Carlo Ph.D.



TOXICOLOGY EXCHANGE

REGULATION

High Points and Low Points

As Administrators, Supervisors, and Bench Techs, we have all had to endure the “joys” of Proficiency Testing and On-Site Inspections.

As Supervisor or Responsible Person, we study the current regulations that apply to our laboratory, whether it be ASCLD, HHS, CAP, AAFS, or ABFT, to ensure that we meet compliance.

Putting on the cap of Technical Writer, we pour over each procedure and policy in the SOP (Standard Operating Procedure) Manual to: #1. Make sure that we have addressed said regulations, and #2. Make sure that everyone (from Responsible Person, to Supervisor, to Bench Tech, to Accessioning Person) knows the policies in the SOP and follow them to the letter.

Enduring the Stress of receiving a set of Proficiency Samples, we strive to treat them “exactly the same” as any typical sample in our lab. (Even when the instructions included with our PT samples ask that we confirm a Retest Sample for 6-Acetylmorphine when the Morphine reads less than 2,000 ng/ml and our policy manual specifically must state that such testing will not be done unless the Morphine is greater than 2,000 ng/ml!) We keep a cool head when asked to confirm a sample that has been spiked with another interfering drug at a level that is incompatible with life.

Acting as a congenial host, we have learned to smile and act as though we are thrilled to accommodate from 2-3 inspectors over a 2 to 3 day inspection period. We politely and efficiently answer all questions and retrieve all data and documentation requested of us. Then, when the inspection trauma is finished, at the exit interview, we thank them for coming!

In the end we are proud of having done a good job and of being able to put the name of our lab up there with the best of them!

I hope that at our Round Table at the OKC Fall Meeting of SAT that you will all bring up some good topics of discussion. Some of my questions include: Why do we “work ourselves to death” to prove that our lab is one of the best in its category and then turn around and watch our Oklahoma State Legislature pass a law that allows on-site job testing with no regulation? And can we, as forensic scientists, ever get past the O.J. Simpson case?

Come join us in OKC not only for a good time but for a meaningful exchange of ideas!

Nancy Gowen Kropp M.T. (ASCP)
St. Anthony's Toxicology Lab
(HHS & CAP certified)

SAT Business Meeting
Estes Park ,Colorado, Spring Meeting at Stanley Hotel
May 4-6, 2000
Minutes taken by Sheryl H. Peyton, Secretary

I. Introduction

The business meeting was called to order by President, Robert Rodriguez. Gratitude was expressed to Petra Hartmann for hosting the meeting.

II. Secretary Report

A. Darrell Eubanks moved we waive the reading of the minutes from our last meeting since they had been published in the newsletter. Mike Frontz seconded the motion; all were in favor.

III. Treasurer Report

A. Report presented by Dr. Carlo for Dr. Schoenfeld who was not present

- 1) No report at this time since very little activity on account and few checks written.
- 2) Dr. Carlo moved to waive the reading of the treasurer's report and Mike Frontz seconded the motion. All were in favor.

B. Meeting grants: \$300 meeting grant plus registration

- 1) Darrell Eubanks: presentation on "Hepatotoxicity, Diabetes Drugs"
- 2) Mike Frontz, sponsored by Dr. Kunsman (Grant to be mailed)
- 3) Carrie Pressus and Paola Rodriguez used Houston's meeting grants for this meeting.
- 4) Dr. Carlo moved that all be approved, Sheryl H. Peyton seconded the motion.

IV. Committee Reports

A. Membership Committee

Brenda Snodgrass, Chairperson, was not at the Estes Park meeting. Mike Carlo presented the Committee Report which recommended the following applicants. Dr. Carlo moved that all be accepted for membership. Sheryl H. Peyton seconded the motion.

- 1) Mark Boese, Tulsa, OK Police Dept. Forensic Laboratory
- 2) Kathy Erwin, Texas DPS Crime Lab, Austin, TX
- 3) Thomas Wood, Director of Veterinary Sciences, Richmond, KY

B. Audit Committee

Board Action has been taken so that the Audit Committee will now be appointed by the President during the Fall Meeting instead of the Spring Meeting, to provide an independent, nonprofessional review of SAT financial records for the previous year. The committee will consist of three persons in attendance at the Fall Meeting who do the audit at that meeting.

C. Teller Committee

Chairman Glenn Harrison, Dan Rios, and Dawn Cole of the Teller Committee were not present at the Estes Park Meeting. Mike Carlo presented the election results:

- 1) Lori Flores will be the President Elect for the term 07/01/00 – 06/30/01.
- 2) Mike Frontz was elected to be the Counselor from 07/01/00 – 06/30/02.
- 3) The Treasurer will remain Dr. Bob Schoenfeld from 07/01/00 – 06/30/02.
- 4) Chris Heartsill was appointed by the Board as the Counselor to fill the remainder of the term for Lori Flores until 06/30/01.

V. Old Business

Communication Committee

Mike Frontz gave report for this committee and mentioned information sent from Glenn Harrison on how to e-mail board. Mr. Harrison purchased domain name. Sat-Tox.org.

- 1) Sat-Board@Sat-Tox.org.
- 2) Board list will be set up as individual or position (i.e. President). This allows individuals not to have to remember e-mail addresses.
- 3) Listbox.com was not worth it and therefore it has been cancelled.
- 4) Egroup.com wants to drop it and get advertiser EV1.net.
- 5) Suggestion that we put information in membership directory on how to use.
- 6) Committee to study feasibility of SAT purchasing: power point, lap top computer, and projector to use at all meetings.

VI. New Business

A. Future Meetings

1. Fall, 2000 Meeting in Oklahoma City, Oklahoma; November 2nd 3rd, and 4th [Nancy Gowen Kropp/St. Anthony's Hospital], at the Westin Hotel.
2. Spring, 2001 - Dallas, Texas [Chris Heartsill/SWIFS]; dates and location to be announced.
3. Fall, 2001 - San Antonio, Texas; November 1st, 2nd, and 3rd. [Gary Kunsman/Bexar Co ME]
4. Suggestions for future meeting locations:
 - 1) Santa Fe or Albuquerque, NM – [Dr. Schoenfeld]
 - 2) Shreveport, LA – [Dr.'s Manno]
 - 3) Baton Rouge, LA – [Glenn Singletary]
 - 5) Texas: Corpus Christi, Galveston, Bryan
 - 6)

B. Other Meetings

San Antonio will host SOFT 2005 [Society of Forensic Toxicologists]

C. Data Handling Survey

Mike Frontz is handing out a survey on laboratory data processing. He is interested in computers and the lab's ability to handle raw data and final processed data.

D. Dues Increase

Motion was made and seconded by the SAT Board to increase the dues from the current \$20 annual rate to \$30 per year. This is to help handle the increase in meeting costs and host accommodations, the higher grants, the waiving of student registration fees, waiving of registration fees for presenters, etc. Ken Peck said currently the dues are \$18.00 plus \$2.00 for education. He said we need clarification on whether or not a dues increase will include an increase in the portion allotted for the education fund or if it will remain the same.

E. Guidelines for Hosting a Meeting

A meeting Host Information packet/booklet on the Standard Operating Procedures of Hosting a Meeting is being generated by Cindy Kunsman (Dr. Kunsman's wife) and Dr. Mike Carlo. This booklet will be given to future meeting hosts to facilitate hosting a meeting. It will include a Time Schedule of Events.

F. Charlie Tripp Award

This award is a membership appreciation award to thank exemplary members for their work in SAT. The first award will be presented in Oklahoma City at the Fall 2000 meeting.

VII. Close

President Robert Rodriguez thanked all the supportive vendors. Special thanks and a Certificate of Appreciation will be given to Phil Spraker and UCT for their loyal support of SAT over the past 20 years. Phil Spraker has attended the majority of our meetings during this time frame.

President Rodriguez also thanked Dr. Mike Carlo, President Elect, and Dr. Bob Schoenfeld, Treasurer, and the rest of the SAT Board.

Congratulations to Sheryl Peyton, Secretary, on the upcoming birth of her 4th child, due in November, 2000.

Dr. Mike Carlo moved to adjourn the meeting. Chris Heartsill and Paola Rodriguez seconded the motion. All were in favor.

Abstracts
from the
SOUTHWESTERN ASSOCIATION OF TOXICOLOGISTS
Spring Meeting
May 4-6, 2000
Estes Park, Colorado

ARE ALL THIAZOLIDINEDIONES HEPATOTOXINS?

Darrell W. Eubank
Department of Cell Biology & Biochemistry
Texas Tech University Health Sciences Center
Lubbock, Texas

Thiazolidinediones are oral hypoglycemic agents that reduce blood glucose, insulin, and triglyceride levels in insulin resistant animals models and in type-II (non-insulin dependant) diabetic patients. Troglitazone (Rezulin® (US) or Noscal® (Japan), Warner-Lambert 1997), rosiglitazone (Avandia®, SB 1999), and pioglitazone (Actos®, Lilly 1999) are the newest type-II diabetic medications. Although these thiazolidinediones ameliorate insulin resistance and alleviate diabetic symptoms, Rezulin is associated with > 100 cases of liver damage, including liver failure requiring transplantation in three patients and death in another (1997 FDA). Rezulin sale was voluntarily discontinued by the manufacturer in the UK in late 1997 and in the US on March 21, 2000. Possible side effects for both Avandia and Actos also include liver damage and hepatotoxicity. Patients taking these drugs undergo liver enzyme monitoring prior to and during drug administration. Unlike troglitazone, clinical studies of 4598 patients treated with rosiglitazone reported no evidence of drug-induced hepatotoxicity or elevation of alanine aminotransferase levels. Similarly, pioglitazone has not been found hepatotoxic in clinical trials. However, reported here is one of two published cases describing severe hepatotoxicity in a patient treated with rosiglitazone. This presentation will discuss the implications of the thiazolidinedione class of insulin drugs in hepatotoxicity.

AUTOMATED SAMPLE PREPARATION FOR THE ANALYSIS OF
BENZOYLECGONINE
AND THC BY SOLID PHASE EXTRACTION

John Leaton
Hamilton Company

IMMUNALYSIS WORKSHOP

Screening of unextracted forensic samples (blood, vitreous humor, bile, etc.)
using ELISA micro-plate technology

James R. Soares, Ph.D
Michael J. Vincent
Immunoanalysis Corporation

The theory of ELISA and the practical applications of this heterogenous assay system will be discussed and demonstrated to workshop participants. There will be particular emphasis on the sensitivities achieved by ELISA technology, required for low screening levels of blood and the time savings achieved by not having to extract blood samples.

This assay format will be compared with other assay systems that have radioactive, enzyme, and fluorescence tags.

Actual assays for different drugs will be performed to enable participants to get a practical feel for the various steps involved in running ELISA screens.

NOVEL SAMPLE INTRODUCTION AND ANALYSIS TECHNIQUES USING GC-MS

Cheryl Ehorn
Varian Analytical Instruments

PAROXETINE DISTRIBUTION IN POSTMORTEM CASES

Paloa Rodriguez, B.S., Carolyn L. Presses, B.S., and Gary W. Kunsman, Ph.D.,
Forensic Toxicology Laboratory, Bexar County Medical Examiner's Office, San
Antonio, Texas

Sixty-one postmortem cases are reported in which the antidepressant paroxetine (Paxil), a selective serotonin re-uptake inhibitor, was identified. Paroxetine was extracted from biological specimens using a standard alkaline drug screen. Analysis was performed using gas chromatography/flame ionization detection without derivatization. In five of the cases reported the cause of death was determined to be a mixed drug intoxication while in the remaining fifty-six cases paroxetine was considered to be only an incidental finding. Cases submitted to the Bexar County medical examiner's Office over a twenty-seven month period in which paroxetine had been identified on the initial toxicology screen were analyzed using all available postmortem specimens. Blood concentrations ranged from 0.05 mg/mL in a case of suicidal shooting to 15.9 mg/mL in mixed drug overdose.

ATRACURIUM IDENTIFICATION AND IT'S ROLE IN TWO DEATH CASES

Michael Frontz, MSFS, Robert Rodriguez, BSc, and Gary Kunsman, Ph.D.,
Forensic Toxicology Laboratory, Bexar County Medical Examiner's Office, San
Antonio, Texas

Two cases are reported in which death occurred under suspicious circumstances and toxicological findings included the presence of laudanosine, a spontaneous metabolite and GC artifact of atracurium. Atracurium, a non-depolarizing skeletal muscle relaxant indicated for neuromuscular blockade and anesthesia-adjunct while providing no pain relief, is a quaternary ammonium compound not amenable to gas chromatography analysis except under specialized conditions. Laudanosine, however, is readily extracted under alkaline conditions, chromatographs well, and can be identified by its full-scan EI mass spectrum. The cases reported both involve health care professionals with access to atracurium as part of their professional duties. In both cases, the decedents were found with syringes at the scene. In one case midazolam was identified in the syringe, but laudanosine was the only compound of toxicological interest noted in the samples submitted for analysis. In the second case, two of three syringes contained laudanosine and fentanyl and both drugs were identified in all of the biological samples submitted. The first case was ruled an accident due to IV injection of atracurium and the second was ruled a suicide by mixed drug overdose.

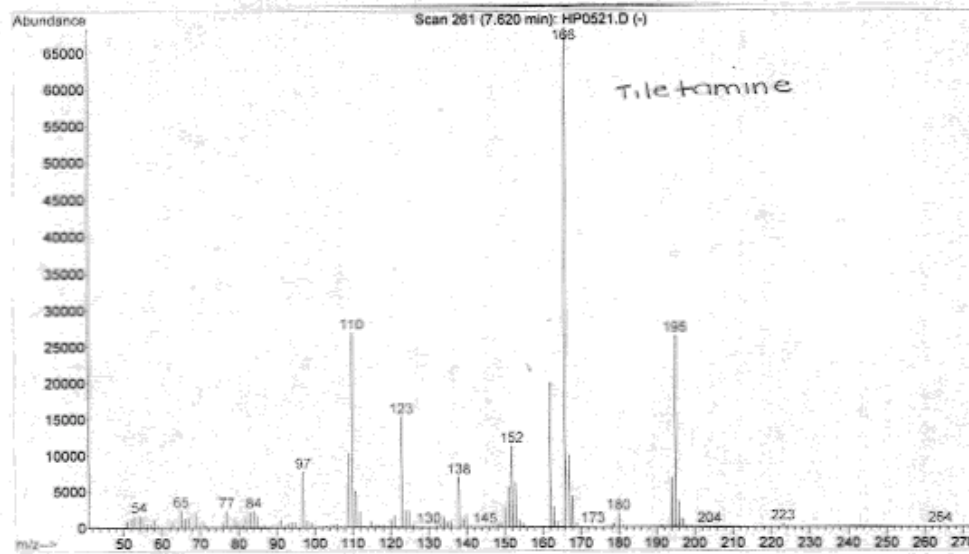
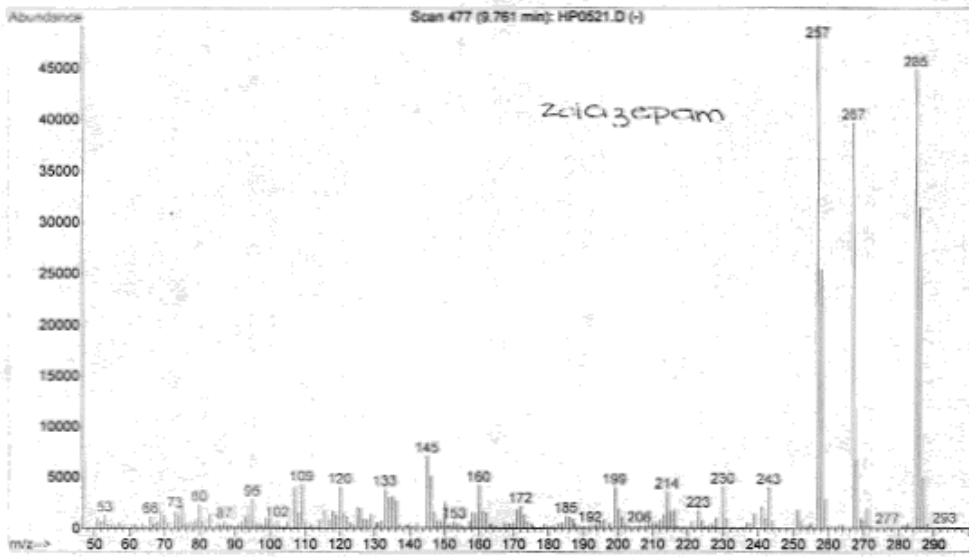
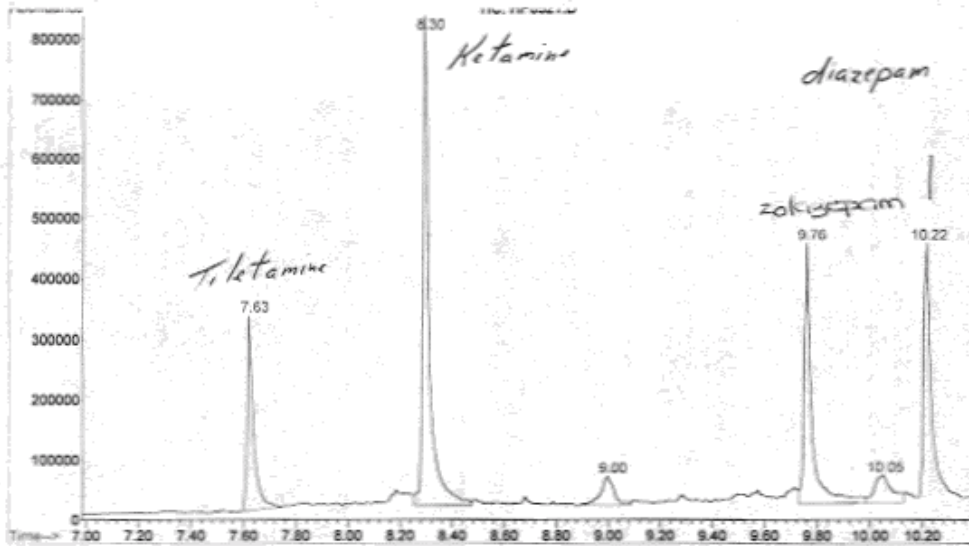
Telazol - A Dissociative Anesthetic Similar to Ketamine -Forensic characteristics

Kenneth Peck, M.M. Rao, V. Phillip, G. Manuel and A.C. Ray

Texas Veterinary Medical Diagnostic Laboratory, College Station, TX

Telazol is a veterinary drug primarily used as an anesthesia agent. The components of Telazol are Tiletamine (MW 223.33, CAS# 1417649-9) and Zolazepam (MW 286.31, CAS# 31352-82-6). Tiletamine is a dissociative anesthetic similar to ketamine. This profound cateleptoid anesthetic does not impair the pharyngeal-laryngeal reflexes thus leaving coughing and swallowing reflexes intact. Tiletamine used alone does not produce adequate muscle relaxation for surgical procedures. The addition of Zolazepam does improve muscle relaxation. Deep IM injection (single dose) provides 5 to 12 minutes of anesthesia and 20 to 25 min of muscle relaxation in dogs and cats. During Telazol anesthesia, copious salivation and exaggerated swallowing may be noted. Telazol is frequently given IV as an anesthetic agent or used in darts to wildlife. It is often the drug of choice when working with porcine (pigs). This drug has potential miss-use as a date-rate drug.

Each vial of Telazol contains 500 mg each of tiletamine and zolazepam (free base) Zolazepam does not cross-react with either the Abbott Benzodiazepam urine FPIA or Neogen- Elisa Technology Benzodiazepam group elisa. Cross-reactivity of zolazepam metabolites is not established. Analysis of Telazol by GC/MS reveals tiletamine elutes prior to ketamiae and zolazepam elutes prior to diazepam. Chromatograms (TIC) and spectra are included.



Southwestern Association of Toxicologists, Inc.
Application for Membership



Please type or print neatly.

Name: _____				
	Last	First	Middle	
Home Address: _____				
	Street	City	State	Zip
Date of Birth: _____		Place of Birth: _____		
		City	State/Country	
Citizenship: U.S. <input type="checkbox"/> Other: <input type="checkbox"/> Occupation: _____				
Firm Name: _____				
Title: _____				
Address: _____				

Business Phone: _____			FAX: _____	
Home Phone: _____			FAX: _____	
Preferred Mailing Address: (check one) <input type="checkbox"/> Business <input type="checkbox"/> Home				

EDUCATION

Institution:	Dates Attended:		Degree	Major Field
	From	To		
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Dissertation Title and Advisor, if any: _____

Publications and Patents: (append additional sheets if necessary): _____

Specialization, Board Certification, Honors, and Award: _____

-Please complete the other side-

Professional Experience

(Present position first – use additional sheets if necessary.)

Organization/ Address:	Position	From	To	Supervisor Reference:
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

I certify that the above information is correct to the best of my knowledge.

Signature

Date

The two SPONSORS listed below, who are full members of the Southwestern Association of Toxicologists, recommend the applicant and recognize that one major objective of the Association is the development of technical knowledge and furthering of the professional standing of technical people in the field of Toxicology. If the applicant does not know two full members of the Association, a curriculum vitae or resume with the names of two professional references, should be submitted to the Membership Chairman for review by the Executive Board of the Association.

Sponsor #1

Sponsor #2

Name:

Position:

Organization:

Signature:

Phone Number:

This application will be presented to the SAT Board of Directors and membership at the next semi-annual meeting. After acceptance of membership by SAT members, annual dues will begin with the next fiscal year (July).

Return this completed application and a non-refundable application fee of \$20.00 to:

Brenda Snodgrass
519 Fleetwood Dr.
Norman, OK, 73072

Charles Tripp Millennium Award



Nomination Form

Candidates Name: _____

Organization: _____

Position: _____

Years of SAT membership: _____

Please detail in the space below the contributions the above candidate has made in the field of Toxicology and in service to the Southwestern Association of Toxicology:

The Board of the Southwestern Association of Toxicologists has established the Charles Tripp Millennium Award to honor at least one member a year (at the discretion of the board) for outstanding service. Consider the following criteria:

- a. Professional contributions to the field of Toxicology
- b. Contributions and Service to SAT
- c. Years of membership
- d. "Coming through in a Pinch"

Any member can submit the name of a deserving member to the board using the form above.