

AAVPT NEWSLETTER

OCTOBER 2010

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ANNOUNCEMENTS:

- ◆ **AAVPT is accepting nominations for the 2011 Service, Teaching, Research and Lloyd E. Davis Awards (see page 6 for details)**
- ◆ **AAVPT is accepting abstracts for the 17th Biennial Symposium (see page 9 for details)**

FROM THE PRESIDENT

Carol A. Davis, Ph. D.

Welcome to the fall issue of the AAVPT newsletter.

With fall approaching, all of us in the Midwest are experiencing cooler weather. That is on the plus side. As fall progresses comes colder weather which means I will have to finally clean and put away my golf clubs for another season. That is on the negative side. This transition means I must inevitably redirect my activities from the outside to the inside which is always hard for me since I am not an indoors-type of person. There is always house cleaning or a room or two that might need painting. Or maybe I might take up that yoga class I have been thinking about. Or maybe focus on getting rid of a few extra pounds. Ugh! But some of you might be wondering what this has to do with my newsletter report? Well, actually nothing. So, to come to the point (as Anthony is always trying to get me do)..... what has been going on in AAVPT since the last newsletter? In a nutshell – PLENTY! As you can see with a quick glance at the table of contents, there is a lot of activity, and many members have been very busy over the last few months.

We had our elections last spring and have two new executive council (EC) members – Drs. Terry Clark (Procyon Pharmaceuticals, Inc.) and Sarah Wagner (North Dakota State University). I welcome them to the EC and look forward to working with them. Drs. Virginia Fajt (Texas A&M) and Jay Donecker (Pfizer) are stepping down from the EC. I enjoyed working with them and wish to thank them for all of their help. The current members of the EC are Sanja Modric, Rick Vulliet, Anthony Lucas, Ralph Claxton, Sherry Cox, Mark Papich, Ronette Gehring, Terry Clark, Sarah Wagner, and me. If you have anything you wish to bring up to the EC, you can contact any member on the EC at any time.

The newsletter has reports from a number of officers and committee chairs. As chair of the AAVPT program committee, Sanja has been very busy this year. She has two excellent reports about the Bioequivalence (BE) workshop and the soon-to-be offered training course. We are on schedule for the biennial, which I am looking forward to since it will be in the Midwest this time. I hope many of you will plan on attending this meeting. Cory Langston has been working on our education effort, and he has a report on the survey he conducted.

He is scheduled to meet with the EC in October to talk about where to go from here.

The newsletter also contains reports on our finances, and we appear to be in good financial condition. I am sending our collective thanks to Anthony Lucas for all of his work on the BE workshop budget and registration. I do not know how he did it since he had to handle all of the paper work for the BE

meeting while changing jobs and moving from Indiana to Maine. You should ask him about his trip through Columbus, Ohio with his bees!

I attended the BE workshop and thought it was one of our most successful workshops. I want to thank Marilyn Martinez and Rob Hunter for their initial proposal and Sanja for all of her effort to put the meeting together. All of their hard work putting the program and webinar together resulted in a remarkable scientific program. The webinar was a first for AAVPT. Although Michele, Anthony and Sanja had some difficulty getting things finalized with the Bolger Center, the meeting ran pretty smoothly once it got going. I remember we worried quite a bit about having to use a second room with a video feed to accommodate all the people attending the meeting. But in the end, the second room



FROM THE PRESIDENT (CONTINUED)

worked out nicely. The room had large, flat screen monitors on both sides of the room, plenty of room to spread out and really comfortable executive chairs to sit in. Personally, I enjoyed the satellite room.

To be honest, this is what I truly enjoy about being your president. I have the opportunity to work with some really talented people who are just plain fun to work with.

Planning meetings is a very interesting process. We always begin not knowing if the decisions we make along the way will work. How many rooms should be put in the contract? But, I have to say for this meeting, I think we managed to make the right decisions because the meeting was a success. I know the ultimate success of a meeting rests on content, and we have always been fortunate to be able to get

great speakers for our meetings. But we should not forget to acknowledge all of the work that goes on behind-the-scenes. In this area we are fortunate to have a great group of people who really work well together. To be honest, this is what I truly enjoy about being your president. I have the opportunity to work with some really talented people who are just plain fun to work with. Kudos go out to Sanja, Michelle and Anthony for all of their hard work in the planning and execution of the meeting. Thanks, guys.

The planning for our next major event – the AAVPT training course - is well underway. This is a new undertaking for AAVPT, and we are excited to see how it comes together. We are very close to opening up the registration and will send out information as soon as it becomes available. We think there is a good amount of interest in the meeting.

As I think about it, I have one more year as president and want to spend the next few months reviewing how AAVPT operates and to implement some things to make AAVPT operate a little more efficiently. I want to do this in small steps to get an idea of how things will work. First, we think we can begin by using a web-based company to handle the registration for our next event. To do this, I have spoken with and looked at the demo for a company called Acteva (www.acteva.com). At first glance it looks to be very cost

effective. Their fees seem reasonable and can be added into the budget for the meeting. The nice thing about this service is that it does not require any long term contracts. We log into an account and set up our meeting registration which is then uploaded to a website. The company carries out the transaction and sends the money to our bank account minus the fee. We will see how it works for one meeting and then maybe look at other services, such as membership services, which we will need for the long term. If this works out it should take a big load off of the treasurer. For this type of service, I got a lead on a company that services small non-profit organizations like AAVPT. It is called Affiniscape (www.affiniscape.com). There would be some upfront work with them to see what services we might want and then they would build a website to handle those tasks. I think this might be a good option, but if anyone has had any experience along these lines or knows of other companies similar to Affiniscape, please give me a call. I would really like to find a couple of companies to compare. It is hard to assess web-based companies and to know if they are trustworthy or have a good track record. There is no way for me to “kick the tires”, if you know what I mean. These services are usually more extensive and require a long term contract. We will have to do some investigating and spend some time planning what we will want from them. I hope we will have something in place by the middle of next year. We have been in need of this kind of service for a long time. We will either need to do it this way or find some part time help for the treasurer. We simply cannot go on operating as we do now.

I look forward to all of the events coming up this next year and hope to see all of you in Madison at our 2011 biennial.

The planning for our next major event – the AAVPT training course - is well underway. This is a new undertaking for AAVPT, and we are excited to see how it comes together.

FROM THE PRESIDENT-ELECT

Sanja Modric

These are exciting times for AAVPT, and I am happy to be an active participant of our vibrant community. It is very fulfilling and gratifying to work with many of you in developing programs to promote veterinary pharmacology, and I will summarize a few of our major efforts.

AAVPT, EAVPT and ECVPT Bioequivalence Workshop

We recently finished the Bioequivalence (BE) Workshop (June 27-30, 2010), which was co-sponsored by AAVPT, EAVPT and ECVPT. Based on the feedback that we received during and after the workshop, it was very well received. I was amazed at the number of people registering for the workshop, but even more so at the number of people attending every session, including the two night sessions that lasted until well past 9 o'clock. The conference hours seemed grueling at times, but we had a lot to cover, and we used the 3.5 days of the workshop to the maximum. The facilities at Bolger Center in Potomac, Maryland, were conducive to communications, learning, and exchange of ideas, and provided a very friendly and comfortable atmosphere.

The Bioequivalence Workshop and subsequent white papers are part of the AAVPT-sponsored Bioequivalence Initiative.

For more information on the white papers & the Bioequivalence Initiative, visit www.aavpt.org/BEInitiative.shtml

There were over 150 registrants at the workshop, including people from all over the world representing industry, academia and many regulatory agencies (US and international). I would personally like to thank all the speakers who gave excellent talks on a wide range of topics, including: evaluation of bioequivalence for highly variable drugs; defining the appropriate analyte; establishing the bioequivalence of non-systemically absorbed formulations, intramammary products, extended release formulations, Type A medicated articles; the relationship between generic approvals and antimicrobial resistance; and challenges with rolling out bioequivalence concepts in developing countries.

Special thanks go to the co-chairs of the organizing committee, Marilyn Martinez and Rob Hunter, as well as all the committee members: Eden Bermingham, William Brown, Ralph Claxton, Cynthia Cole, John Harshman, Jennifer Johannson, Chantal Lainesse, Peter Lees, Anthony Lucas, Sanja Modric, Joe Robinson, Pierre-Louis Toutain and Bill Zollers. Everybody worked really hard to make this happen, but I would like to especially thank Anthony Lucas, who spent long hours communicating with all the registrants and Bolger Center in order to make sure that everything ran smoothly.

As planned, the workshop served as an initial springboard for

exploring the complex issues identified at the workshop. In order to continue working on them, we have established several working groups with experts that will work on the white papers, which will be published as a stand-alone theme issue in JVPT. The following white papers are being developed by the area experts (with the targeted publication date of early 2011):

- Estimating product bioequivalence for highly variable drugs (Proposed group chair: Steev Sutton)
- Assessing product bioequivalence with formulations that release for months or years (Proposed group chair: Ronette Gehring)
- Should licking behavior be factored into topical product bioequivalence trials? (Proposed group chair: Pierre-Louis Toutain)
- Critical considerations in a clinical bioequivalence trial? Do we need to know where we stand on the dose-response curve? (Proposed group chair: Eden Bermingham)
- Defining equivalence of the API of biomass products? (Proposed group chair: none given)
- Under what conditions do we need to consider the separate enantiomers? (Proposed group chair: Rob Hunter)
- For products approved for use in multiple species and/or multiple routes, under what (if any) conditions do we need to generate in vivo BE confirmation for each species/route? (Proposed group chair: Sanja Modric)
- Demonstrating product bioequivalence for therapeutics delivered via intramammary infusion (Proposed group chair: Chantal Lainesse)
- How can in vivo bioequivalence be studied when the product is a Type A medicated article? (Proposed group chair: Rob Hunter)
- When is it appropriate to consider "BCS"-based biowaivers for canine oral dosage forms? (Proposed group chair: Mark Papich)
- Defining drug solubility criteria in ruminants (Proposed group chairs: Marilyn Martinez and Mike Apley)
- Defining drug solubility criteria in swine (Proposed group chair: Jerome del Castillo)
- Topical dosage forms: what considerations should go into biowaivers, and what in vitro methods can be used to support product bioequivalence? When do we need a clinical trial? When do we need in vitro? Under what conditions do we need more than biowaiver? (Proposed group chair: Ron Baynes).

Now that the Bioequivalence Workshop is behind us, we can devote our time, efforts and energies into developing a new collaborative initiative between the AAVPT and FDA's Center for Veterinary Medicine on teaching regulatory science.

FROM THE PRESIDENT-ELECT (CONTINUED)

The Bioequivalence Workshop and subsequent white papers are all part of the AAVPT-sponsored Bioequivalence Initiative. As part of the initiative, and in preparation for the workshop, AAVPT sponsored a 2.5-hour webinar presented by Marilyn Martinez. Many thanks to Marilyn for presenting a very valuable overview of bioequivalence, and a big thanks go to Rob Hunter and Anthony Lucas for organizing the webinar. For more information on the white papers and the Bioequivalence initiative, visit <http://www.aavpt.org/BEInitiative.shtml>

Veterinary Drug Regulatory Life Cycle A – Z Course

Now that the Bioequivalence Workshop is behind us, we can devote our time, efforts and energies into developing a new collaborative initiative between the AAVPT and FDA’s Center for Veterinary Medicine on teaching regulatory science. This week-long course will be held in the Washington, DC metropolitan area on February 28 to March 4, 2011 and will be taught exclusively by CVM employees. It will provide comprehensive training for industry, academia and regulatory agencies interested in learning more about regulatory science, drug approval process in the US, and post-approval activities at CVM. This course is a novel approach to strengthening ties between all AAVPT constituents and facilitating better communication among all of us.

many CVM scientists have been working hard in the past several months on developing the course program.

AAVPT 17th Biennial Symposium 2011

The next biennial symposium will be held May 22-25, 2011 at the Lowell Conference Center on the University of Wisconsin-Madison campus. We look forward to seeing many of you in beautiful Madison, and we are preparing an exciting program. Major symposium topics include CYP-450, pharmacovigilance, biologics, and veterinary pharmacology education. We are also considering an aquaculture workshop in conjunction with the symposium.

As 2011 marks the 33rd anniversary of the Academy, as well as the 20th anniversary of our sister-organization, the American College of Veterinary Clinical Pharmacology (ACVCP), the program committee is planning to make the symposium a memorable occasion by highlighting the history and activities of the founders and original members of both the Academy and the College during the meeting.

Many thanks to the program committee: Dawn Boothe, Ralph Claxton, Cynthia Cole, Carol Davis, Virginia Fajt, Anthony Lucas, Katrina Mealey, Lesley Rausch-Derra and Michele Sharkey.

AAVPT 17th Biennial Symposium
May 22-25, 2011
Lowell Conference Center
University of Wisconsin-Madison

Veterinary Drug Regulatory Life Cycle A – Z Course

Feb. 28–Mar. 4, 2011

Washington, DC metropolitan area

See www.aavpt.org for additional information

Topics include pre-approval requirements, surveillance, compliance, communications with CVM, MUMS, generic drugs, and much more. Additional information on the course may be found on the AAVPT website. Depending on the interest and success of the first course, we hope to turn this into a recurring learning opportunity for all interested groups.

Organizing committee: Ralph Claxton, Carol Davis, Anthony Lucas, Sanja Modric and Michele Sharkey. Thank you very much, Michele, Carol, Anthony and

Ralph, for all your hard and enthusiastic work! In addition,

FROM THE SECRETARY-TREASURER

Anthony Lucas

Secretary Report

As of 24 June 2010, the AAVPT had 142 paid members, consisting of 38 Emeritus Fellow, 6 Distinguished Emeritus, 1 Distinguished Fellow, 59 Fellow, 33 Regular and 5 Student members. I revised the dues notice for 2010, and it has definitely reduced the confusion over membership status and has helped collect quite a number of unpaid dues from previous years (6 members who were 2 years behind in dues and 2 members who were three years behind). There are a number of members who have not paid their dues, and I will follow up with them after the Bioequivalence workshop.

We have 30 subscriptions to the Journal of Veterinary Pharmacology and Therapeutics. This year we have added on-line only and on-line and paper options. Four members have chosen on-line only and 9 members have chosen on-line and print.

Since the start of the year, we have two new Regular members (Elizabeth Johnson and Tara Marmulak). Please welcome these new members.

For those of you who don't know, I moved to Maine earlier this year. As a result, the postal address for the AAVPT has changed. The new PO Box is:

AAVPT
PO Box 18188
Portland, ME 04112-8188

FINANCE AND BUDGET (COMPTROLLER)

Dan Gingerich

AAVPT remains financially sound despite a continuing sluggish US economy. As you know AAVPT pledges 10% of our "net worth" (investment assets) each year to the newly formed Veterinary Pharmacology Research Foundation (VPRF). After this year's payment to VPRF, as of August 13, our net investment value is \$96,922.

As you also know VPRF funded a pharmacology research project this year at \$20,000. VPRF's net investment value is presently \$36,652. This means we'll be able to make more

I would like to acknowledge the administrative assistance I have had from Katie Selva of Putney, Inc. Katie has assisted with the payments and hotel arrangements for the Bioequivalence workshop and in the bookkeeping of the Academy. Putney, Inc. has provided Katie's time free of charge, and I am extremely grateful for the assistance.

I also need to thank Carol Davis for assisting with the voting process for the 2010 vote.

Treasurer Report

As of 24 June 2010, the AAVPT checkbook showed a balance of \$171,129.99.

The Awards fund balance as of 24 June was \$4,835.45.

I have transferred \$20,000 to the Comptroller for higher return investment.

Upcoming expenses include:

Estimated cost for BE workshop	\$140,000 (approximate)
JVPT journal subscriptions	\$3,393

AAVPT remains financially sound despite a continuing sluggish US economy.

research grants in the coming year and thereafter, thanks to continued donations from AAVPT members, companies, and other donors.

Call for Nominations for the following awards to be presented at the AAVPT 17th Biennial Symposium

AAVPT Service Award

The AAVPT Service Award is presented to recognize significant service to the fields of veterinary or comparative pharmacology, or therapeutics. The award will consist of a commemorative plaque, meeting registration, hotel room, and a check for \$500 to be presented at the Biennial Symposium.

AAVPT Teaching Award

The AAVPT Teaching Award is presented to recognize significant teaching activities in the fields of veterinary or comparative pharmacology, or therapeutics. The award will consist of a commemorative plaque, meeting registration, hotel room, and a check for \$500 to be presented at the Biennial Symposium.

AAVPT Research Award

The AAVPT Research Award is presented to recognize significant research contributions to the fields of veterinary or comparative pharmacology, or therapeutics. The award will consist of a commemorative plaque, meeting registration, hotel room, and a check for \$500 to be presented at the Biennial Symposium.

Lloyd E. Davis Award

The "Lloyd E. Davis Award" is presented for significant contributions over an entire career to the advancement and extension of knowledge in the fields of veterinary or comparative pharmacology. The award will consist of a commemorative medallion/plaque, round-trip transportation, meeting registration, hotel room, and a check for \$750 to be presented at the Biennial Symposium.

Nominations shall be made and seconded by no fewer than two members of the AAVPT.

Nominations shall consist of a curriculum vitae and no fewer than two letters of recommendation/support describing the contributions which make the candidate eligible. Supporting documentation is encouraged.

Nominations must be submitted to the Chair of the Awards Committee by **December 31, 2010**.

Information can be sent via e-mail to rausch-derra@hughes.net, or via mail to Lesley Rausch-Derra, 8085 N. Chariton Avenue, Parkville, MO 64152

See the AAVPT website (www.aavpt.org/awards.shtml) for more details.

JOURNAL OF VETERINARY PHARMACOLOGY AND THERAPEUTICS (JVPT)

Jim E. Riviere, Editor

The JVPT continues to maintain a healthy rate of manuscript submissions. We received 230 submissions in 2009 and accepted 55%. As of the end of July 2010, we have an acceptance rate of around 35% and have logged 150 submissions putting us on track for a record 260 this year. We had a turnover of Editorial Board members last year, with new members being Drs. Ron Johnson, Duncan Ferguson, and Virginia Fajt. Our Impact Factor remains essentially unchanged at 1.41 from our five-year running average of 1.38. This is in the top 25% of veterinary journals. In an effort to further improve this, we now have a backlog of excellent review manuscripts awaiting publication.

In fact, for the first time in many years, we have an approximately four issue backlog of accepted papers. In order to increase the number of manuscripts published per issue without increasing costs in these challenging economic times, we have reformatted the JVPT manuscript layout which has resulted in a gain of 15% usable pages per published issue. We have also streamlined accepted manuscript processing by the publisher to insure that articles are posted on-line as soon as possible. This will further improve over the next year. Finally, we have begun to outrightly reject manuscripts submitted using what I would politely refer to as antiquated analytical and data analysis methods. Although such techniques were once acceptable, they no longer are. An Editorial describing these issues and further clarifications of our journal's focus will be published

AWARDS COMMITTEE

Lesley Rausch-Derra, Committee Chair

Anthony Lucas has passed the hat of awards committee chair to Lesley Rausch-Derra. The website has been updated to reflect this change, as well as, minor changes in award nomination procedures.

Pierre-Louis Toutain, the 2009 Lloyd E. Davis Award recipient, has accepted the invitation to attend the 17th Biennial symposium in 2011. Prof. Toutain was unable to attend the 16th Biennial symposium.

A call for nominations for the 2011 Lloyd E. Davis award was posted in the Journal of Veterinary Pharmacology and Therapeutics, the AAVPT newsletter and on the AAVPT website. One nomination has been forwarded to date, but the committee is still awaiting complete nomination documents.

in an upcoming issue.

I want to give my sincere thanks to all of our members who have submitted papers and those who have reviewed them. I realize that reviews often show up at inopportune times. I appreciate your dedication and beg patience from submitting authors. Unlike some other larger journals, we have no editorial processing staff (yet we have a higher impact factor!). Please be patient, especially around vacations and holidays where submissions increase and reviews take longer.

Finally, I express my whole-hearted gratitude to Mark Papich for handling reviews and especially to my European co-editor Johanna Fink-Gremmels, for her outstanding job of keeping papers flowing and quality high. If you only could see the emails we exchange!

Again, thank you for giving me this opportunity to serve our profession.

In fact, for the first time in many years, we have an approximately four issue backlog of accepted papers.

Calls for nomination for the Service Award, Teaching Award, Research Award, as well as, the Lloyd E. Davis Award are planned for 3Q via the newsletter and the via the AAVPT listserv throughout the year. One nomination has been forwarded for the Service Award, but the committee is still awaiting complete nomination documents.

No ACVCP/AAVPT Resident /Graduate Student Pharmacology Research Award was given at ACVIM this year. Announcements for this award for the 17th Biennial Symposium will be numerous to encourage participation.

Thanks to Anthony Lucas for his help with the committee this year.

EDUCATION COMMITTEE

Cory Langston, Committee Chair

The AAVPT Executive Council is considering whether establishing a database of pharmacology exam questions would be of use to its members in academia. This would be a resource to use in creating exams and not actual examination software (such as Blackboard). Accordingly, members associated with academia were asked seven questions as to the perceived usefulness of such a database, security concerns, format, and willingness to contribute questions. The results to the questions are below. The relative benefit to cost and effort will determine whether to proceed with the project.

Question #1. Usefulness. On a scale of one to five, how useful to you would a database of pharmacology questions be for teaching? A score of 1 equals "no value" while a score of 5 would equal "extremely valuable".

- 58.4% rated it as valuable or extremely valuable; each score accounted for 29.2%
- 29.2% rated it as moderately useful
- 12.5% rated it as of little or no value

Question #2. Security. Some instructors prefer to reuse their questions each year and therefore do not return them to students. Accordingly, one concern by some members is that if they contribute to this database, then students will eventually get their questions. Was this an important consideration in how you answered #1?

- 25% viewed security as a key issue in whether the database should be created and, presumably, whether they would participate
- 75% viewed security as being of lesser importance in their decision

Question #3. Do you return your exams to the students?

- approximately equally divided: 41.7% return exams, 45.8% do not return their exams, and 12.5% indicated it varied depending on circumstances.

Question #4. Question types. Creating a database able to handle various question types such as multiple choice, check all that apply, matching, calculations, and essays will be of greater difficulty than creating a database that contains only multiple choice questions. The variety of question types can however offer more versatility and depth in the material covered. On a scale of 1 to 5, how useful to you would it be to have short answer, matching, calculations, and essay type questions in addition to multiple choice questions in the database, where 1 = "no use, multiple choice questions alone are fine" and 5 = "of great use, I want multiple

question types".

- 16.7% = 1 thought use of only multiple choice questions were adequate
- 8.3% = 2
- 12.5% = 3
- 20.8% = 4
- 41.7% = 5 preferred multiple types of questions (check all that apply, matching, calculations, and essays)

Question #5. Your participation. If such a database were created, how willing would you be to share questions and answers you have created? (Authorship would be noted.)

- 8.3% were unwilling or unlikely to contribute questions
- 33.3% would contribute somewhat
- 58.3% would definitely contribute questions

Question #6. List in order from 1 to 4, with 1 being most preferred, your favored methods of contributing your questions, with 1= "I will not participate", 2="hardcopy or scans", 3="Word processor documents", and 4 = "Exports from examination software (e.g., Respondus, Blackboard)

- 90.5% would provide questions in a word processor format

Question #7. Delivery method. A database of questions should be easily accessible while still being secure. Two alternatives have been suggested:

- a) Create an Access (or similar) database that would be posted on a Google Site (previously called Google Pages). The site would be private to AAVPT members and the database itself would be password protected. Members would then download the file for their own use.
 - b) Create an online searchable database. While providing the greatest accessibility, it is likely that AAVPT would have to hire a software developer to create the site and arrange for a hosting site. If you choose "acceptable" or "preferred" feel free to include in the comment box any thoughts on how much AAVPT should be willing to spend.
- It was about equally divided as to whether to create a searchable web database for member use versus placing a password protected Access database in a private Google Site.

The relative benefit to cost and effort will determine whether to proceed with the project.

Call for Abstracts for the AAVPT 17th Biennial Symposium

May 22-25, 2011 – Lowell Center, Univ. of Wisconsin-Madison

The AAVPT 17th Biennial Symposium Program Committee invites the submission of abstracts for poster presentations at the Symposium. The Symposium is organized around scientific, teaching and regulatory themes, and all abstracts that address some aspect of veterinary pharmacology and therapeutics will be considered. Abstracts may be included as a part of the Symposium Proceedings. Abstracts for the ACVCP/AAVPT Resident/Graduate Student Award will also fall under the following guidelines. (See the AAVPT website for eligibility requirements.)

Guidelines for submission:

Abstracts must be submitted by April 15, 2011 to Lesley Rausch-Derra (rausch-derra@hughes.net).

Abstracts must be submitted as a single document that is compatible with Microsoft Word[®] (any version for Windows). File names must be in the format of:

AAVPT 17 BS Abstract<space>first initial<space>surname<space>abbreviated title
e.g., AAVPT 17 BS Abstract C Smith PK of diazepam

The total length of the abstract must be equal to, or less than, 250 words. This word limit excludes the title, author names, degrees, board certifications, addresses, telephone numbers, email addresses and key words, all of which must be included. The presenting Author's name must be underlined. Authors should include up to five key words. Abstracts should include only text (i.e., may not contain diagrams, figures, pictures, tables or charts). If references are required, they must be listed at the end of the abstract in the following format:

1. Short C et al. Biochem Pharmacol 1969; 18(4):945-7
2. Davis L and Wolff W. AJVR 1970; 31(3):469-73

Abstracts not conforming to the AAVPT guidelines by the deadline will be returned to the author for correction before consideration for presentation at the Symposium.

Edits: Abstracts will be copy proofed by the AAVPT 17th Biennial Symposium Program Committee. The AAVPT will communicate with the author to ensure that editing will not change content or meaning. Keywords are subject to approval, and revision, by the editors. If more extensive editing is deemed necessary, the abstract will be returned for appropriate changes. If changes are made, a proof will be sent to you, and you will have a short period of time to confirm that the formatting is correct; however, please note that content revision will not be allowed.

Copyright agreement: The author grants unlimited and nonexclusive copyright ownership of the materials contained in the submitted abstract to the AAVPT. Unlimited means that the author agrees that the AAVPT may use various modes of distribution, including online and CD-ROM electronic distribution formats. "Nonexclusive" means that the AAVPT grants to the author an unlimited right to subsequently reuse the submitted materials.

Please direct questions to:

Lesley Rausch-Derra

Phone: 816-589-6133

E-mail: rausch-derra@hughes.net

LIAISON REPORTS

AVMA ANIMAL AGRICULTURE LIAISON COMMITTEE (AALC)

Dan Gingerich

I serve as AAVPT's representative on AVMA's Animal Agriculture Liaison Committee (AALC). AALC is composed of representatives from various councils and specialty groups within the profession. The charge of AALC is to review AVMA

In Ohio AALC supported the formation of a Livestock Care Standards Board with authority to establish and enforce animal care standards based on facts and science rather than emotion.

policies and update them as necessary and to advise the AVMA on issues that involve the interface between animal agriculture and public health, food safety, the environment, wildlife, etc.

Antimicrobial drug use is a recent issue of particular interest to AAVPT. An Antimicrobial Use Task Force was formed in which AAVPT Fellows Virginia Fajt and Mike Apley have been particularly active. As Mike Apley articulated in his position statement, these are very complex issues

involving liability, knowledge base, education, paperwork, public perception, etc. AVMA and AALC continue to be active in this area, both at the legislative level (bills in Congress) and the regulatory level (e.g., FDA's regulation of cephalosporin). Antimicrobial resistance issues are also always on the agenda.

Speaking of public perception, another issue that occupies much of AALC's attention is animal welfare as it relates to food animal production. Recently these hot button issues have been coming up as state ballot initiatives pushed by HSUS. In Ohio AALC supported the formation of a Livestock Care Standards Board with authority to establish and enforce animal care standards based on facts and science rather than emotion.

AALC strongly supports continued funding of Food Animal Residue Avoidance Databank (FARAD).

THE VETERINARY PHARMACOLOGY RESEARCH FOUNDATION (VPRF)

Jane Owens

The Foundation was formed in 2007 to provide grant funding to support research into new and currently approved medications for combating diseases of companion and food animals, projects that ensure the safety of food products from treated livestock, and training programs for veterinary pharmacologists. These areas have been unmet needs in veterinary medicine for over 30 years.

In 2009, VPRF formed a strategic partnership with the American College of Veterinary Internal Medicine Foundation (ACVIMF) to jump start the initial round of grants. The first call for proposals went out in November 2009. Investigators were encouraged to submit proposals that focused on research to evaluate the safety and effectiveness of therapies for veterinary species, explore new drug therapies for animals, develop and validate models of animal diseases or conditions, or ensure that a safe food supply is not compromised by drug therapy. As this grant was a partnership between veterinary internists and VPRF, collaborations between pharmacologists and Diplomates of ACVIM were strongly encouraged. Over 30 high quality research proposals were submitted for evaluation by the scientific review committee.



In June of 2010, the first research grant was awarded to Drs. Kenneth Simpson, Melanie Craven, and Belgin Dogan from Cornell University for the development of a novel amikacin delivery method for treatment of *E. coli* associated with Granulomatous Colitis of Boxer dogs. The researchers received approximately \$18,000 for this important work. VPRF will again work with ACVIMF in late 2010 to sponsor another veterinary pharmacology research grant.

In terms of fundraising, VPRF had a very successful year. Members of AAVPT received a request for tax-deductible contributions to the VPRF in their 2010 dues notice. Over

THE VETERINARY PHARMACOLOGY RESEARCH FOUNDATION (CONTINUED)

\$4,800 in donations were raised in this mailing. AAVPT generously contributed over \$8,000 in their annual donation for 2009. Pfizer Animal Health made two generous donations during the last year which in total amounted to \$15,000. This is our largest corporate sponsor to date. Another corporate sponsor, Torpac, Inc., also made a sizeable contribution. All told, VPRF received \$31,712 in donations since June 2009.

VPRF greatly appreciates the support and generosity of AAVPT as we work toward our goal of advancing the field of veterinary pharmacology.

Donations may be sent to VPRF Secretary / Treasurer: Dr. Dan Gingerich, 2219 Wilmington Road, Lebanon OH 45036.

Donation forms are also available on the AAVPT web site: <http://www.aavpt.org/documents/VPRFDonationForm.doc>

President

Jane G. Owens
Elanco Animal Health
2001 W. Main St
Greenfield, IN 46140
owens_jane_g@lilly.com

Secretary-Treasurer

Dan Gingerich
2219 Wilmington Road
Lebanon OH 45036
dgingerich@imulan.com

Board Members

Joe Gloyd
Anthony Lucas
Mark Papich



AMERICAN COLLEGE OF VETERINARY CLINICAL PHARMACOLOGY (ACVCP) REPORT

Lauren Trepanier, ACVCP President

The ACVCP annual meeting was held on June 10, 2010 in conjunction with the annual ACVIM Forum in Anaheim, CA. The ACVCP/AAVPT scientific morning program included 3 hours on assessment of drug labels: “Demystifying drug labels - identifying key components” by Jennifer Buur; “Pharmacokinetics and the drug label - what can you use?” by Tomas Martin-Jimenez; and “Safety and efficacy - what a drug label does and does not tell you” by Cynthia Cole. The afternoon session, on pain management, included: “Detecting and treating severe acute pain - what works?” by Kurt Grimm; “Managing severe chronic pain - maintaining quality of life in dogs” by Butch Kukanich; “Chronic pain management in cats: what are the options?” by Dawn Boothe; and “New analgesics: what is in the pipeline?” by Tammy Grubb. The 2011 ACVCP annual meeting and 2011 ACVCP exams will be held in Madison, WI, in association with the AAVPT meeting (May 22-25, 2011).

We have 48 ACVCP diplomates and 3 emeritus members, which makes for a small but hard working group. Special thanks to Mike Apley, Former President, and Chair of the Education Committee; Virginia Fajt, Vice President and Chair of the Credentials Committee; Ronette Goehring, Secretary/Treasurer extraordinaire; Dawn Boothe, President-Elect and Chair of Scientific Programs; Tomas Martin-Jimenez, Chair of the Exam Committee; and Jeff Wilcke, Web Master.

The Credentials Committee is working to develop a clear list of criteria for determining eligibility of publications for ACVCP credentials, to include subject matter, type of report, and timing of publication relative to the training program. It is also likely that ACVCP, along with other ABVS-accredited specialties, will need a plan for recertification in the future.

An ad hoc committee, led by Katrina Mealey, is working on a proactive plan for this. Virginia Fajt is also working with Jeff Wilcke on a plan to assure timely updates to the web site.

The 2010 ACVCP Phase I and Phase II examinations were also held in Anaheim on June 7th and 8th. We had 4 applicants take Phase I exam and 2 applicants take Phase II. Duncan Ferguson and Mike Apley spearheaded a live, web-based training seminar series for ACVCP candidates this past year, which went well. This program will hopefully be expanded for next year, with the goal of playing on the strengths of different Diplomates and providing more comprehensive didactic training to our candidates.

We are also developing an ad hoc group to assist the Exam Committee by reviewing the database of Phase I and Phase II exam questions each year for revision or removal (if outdated) and for addition of new questions on emerging topics. There is a concern that the present process does not allow for thorough and timely updates because of an already heavy workload for the Exam Committee.

Thanks to everyone for their “Above and Beyond” work this year!

The Credentials

Committee is working to develop a clear list of criteria for determining eligibility of publications for ACVCP credentials, to include subject matter, type of report, and timing of publication relative to the training program.

UNITED STATES PHARMACOPEIA (USP) DELEGATE REPORT

Carol Davis

The USP held its convention this year in April 2010 in Washington, DC. There were over 300 delegates attending the convention. The AAVPT is one of the invited organizations, and I attended as our delegate to the convention. The other veterinary organizations invited and their delegates were: AVMA (Dr. Lynne White-Shim), Association of American Veterinary Medical Colleges (Dr. Deborah Kochevar), CVM (Dr. Sanja Modric) and American Health Institute (they did not send a delegate). Dr. Dawn Boothe was there as an at-large member of the 2005-2010 convention. In addition to our delegates, Dr. Ian DeVeau (former USP staff liaison for the veterinary committees) from the FDA CDER attended and will continue to help us in our

The biggest change (from our standpoint) is the elimination of the veterinary drug information and veterinary drug standard committees. As it stands now, veterinary medicine is in the Small Molecule 3 Committee along with GI, renal, endocrine, ophthalmology, oncology, and dermatology.

efforts. All together we had 5 delegates representing the animal health field. Prior to the meeting Deborah Kochevar suggested we meet to discuss any issues that might come up during the convention. We met via phone a couple of times, and we got together during the meeting. Our main concern was how veterinary medicine could maintain a presence in USP without any committees. We made sure to bring up this subject when talking to others at the convention and spent time talking to all the candidates running for the

various committees to make sure they were aware of our concerns.

The purpose of the convention was to elect new officers, elect members of the Board of Trustees, approve changes to the constitution, approve any resolutions, and elect new committee chairs for the 2010 - 2015 cycle. With this convention, there were major changes to the Constitution and Bylaws and structure of the committees. Briefly, the major changes to the Constitution and Bylaws were undertaken to streamline the membership process by eliminating the two types of members - constitutionally named and invited members. The other major change was

to the Expert Committee structure with the reduction in the total number of committees; there will be 20 Expert Committees. The leadership of the USP has felt that having fewer committees will be more efficient. The biggest change (from our standpoint) is the elimination of the veterinary drug information and veterinary drug standard committees. As it stands now, veterinary medicine is in the Small Molecule 3 Committee along with GI, renal, endocrine, ophthalmology, oncology, and dermatology.

We knew these changes were going to happen early last year when we were informed that the veterinary committees were being dropped, and we were concerned about the fate of the monographs. With the help of Dr. Mark Papich we were able to obtain all the veterinary information monographs and transfer them to the AAVPT website. As this was being done, we established an Ad Hoc committee, chaired by Dr. Ronette Gehring, to help with the transition. The committee has been working over the last year and discussing how we might proceed from here. Obviously, there could be a lot of time spent on maintaining the monographs, and the committee will try to find ways we might do this. I would like to acknowledge Dr. Virginia Fajt for her help in getting everything transferred from USP and onto our website.

After the meeting, each delegate reached out to their membership to ask interested members to apply to become members of the expert committees. The application period closed in June, and newly elected USP committee chairs, along with the staff of USP, selected members to serve on each of the committees. I am glad to announce that Gigi Davidson (the pharmacist at NCSU College of Veterinary Medicine) was elected chair of the compounding committee. Mark Papich (former chair of the veterinary standards committee) and Cathy Woods (former member of the veterinary standards committee) were selected to serve on the Monographs - Small Molecule 3 committee. They were the only two selected to serve on any of the new committees.

If you are interested in seeing how the USP is organized, you can find all the committees and the members of each committee at <http://www.usp.org/aboutUSP/governance/councilOfExperts/expertCommittees.html>.

NEWS

**American Association of Pharmaceutical Scientists (AAPS)
Workshop
November 13-14, 2010
New Orleans, LA**

AAPS is hosting the Veterinary Pharmaceuticals: Contemporary Challenges and Advances Impacting the Development of Veterinary Pharmaceuticals workshop at the Ernest N. Morial Convention Center in New Orleans on November 13-14, 2010.

This two-day workshop serves the animal health community with programming specifically tailored to this field. It will bring together an international, cross-disciplinary audience to examine contemporary challenges and new advances impacting the global animal health industry.

This workshop, co-sponsored by AAVPT and ACVCP, will serve as a pre-conference workshop to the Pharmaceutical Sciences World Congress hosted by AAPS from November 15-18 for those who want to extend their stay.

For more information on the Veterinary Pharmaceuticals workshop visit www.aapspharmaceutica.com/VetPharm.

**The International Symposium on
Ocular Pharmacology and Therapeutics**

The International Symposium on Ocular Pharmacology and Therapeutics will be held December 9-12, 2010 in Macau, China. For more information visit www.isopt.net.

JOB POSTING

Director of Clinical Pharmacology Education Programs:

Kansas State University – Olathe campus seeks candidates responsible for developing educational programs serving the animal pharmaceutical industry, practicing veterinarians, government agencies, and academic institutions seeking specific educational content in the area of clinical pharmacology. Primary workplace is KSU campus in Olathe, KS.

Applicants must possess DVM or equivalent degree.

Screening of applications begins October 1, 2010 and continues until the position is filled.

Applicants should submit a letter of intent, CV, and names and addresses of three references to the chair of the search committee, Dr. Mike Apley, Kansas State University, 111B Mosier Hall, Manhattan, KS 66506 or at mapley@vet.k-state.edu.

Kansas State University is an affirmative action and equal opportunity employer. KSU actively seeks diversity among its employees. Background check required.

OBITUARIES



Dr. Arthur L. Aronson, 77, scientist, professor, veterinarian, musician and beloved husband, father, and grandfather passed away Wednesday, September 22, 2010 at his home as a result of metastasis of a primary sarcoma. He grew up in Annandale, MN and was preceded in death by his parents Arthur and Thorene, and a brother, James Aronson. He is survived by his loving wife of 54 years, Marilyn; daughter Brenda Panno and her husband Larry of Naperville, IL; son, Mark Aronson and his wife Marianne of Midlothian, VA; and daughter, Luann Aronson Fox and her husband Steve, of Los Angeles, CA; sister, Julianne Dehnel, of St. Cloud, MN; and brother, Leighton Aronson, of Leawood, KS.

Arthur graduated from Annandale High School in 1951, earned DVM (1957) and PhD (1963) degrees from the University of Minnesota, and a Master's degree (1958) from Cornell University. He accepted a faculty position at Cornell University in 1964 engaging in teaching and research. In 1980 he joined North Carolina State University and helped establish the NC State Veterinary School, becoming Department Head of Anatomy, Physiological Sciences and Radiology.

Arthur served as program chairman and organized several national symposia. He chaired a National Academy of Sciences committee to produce the handbook "Recognition and Alleviation of Pain and Distress in Laboratory Animals". Arthur was elected president of several professional organizations, including: American Academy of Veterinary Pharmacology and Therapeutics, North Carolina Chapter of the Society of Toxicology, and the American College of Veterinary Clinical Pharmacology. Arthur served as Editor of the Journal



Thomas E. Powers, D.V.M., Ph.D., age 84, passed away peacefully on Wednesday, July 14, 2010. He was born in Cedarville, Ohio on December 29, 1925 to the late Fred and Elizabeth (Rumbaugh) Powers. He was a proud WWII veteran serving his country in Germany from 1944-1947. He retired in

1985 from the Army Reserve as a Colonel. During his life, he had a long relationship with The Ohio State University. He earned Doctor of Veterinary Medicine in 1953. In 1954 he earned Masters of Science, in Microbiology. He was awarded his Ph.D. in Veterinary Physiology and Pharmacology in 1960, also from OSU. Because of his love of knowledge, he attended a special course in Biometrics and Computer Programming at Harvard Medical School. During Thomas' illustrious career at OSU he became the Chairman and Professor Emeritus of the Department of Veterinary Physiology and Pharmacology for the College of Veterinary Medicine. Both he and his wife Jean were the first husband and wife to receive simultaneous Fulbright Scholarships. He was proud to have the "OSU Thomas E. Powers Pharmacology" chair named in his honor. He was also a long time member of The Ohio State University

of Veterinary Pharmacology and Therapeutics, and was on the Editorial Boards of several journals including Toxicology and Applied Pharmacology, Cornell Veterinarian, and the American Journal of Veterinary Research. He was a recipient of numerous awards including the Ruth and Ned Huffman Leadership Award, College of Veterinary Medicine (1989), and the Lloyd E. Davis award from the Academy of Veterinary Pharmacology and Therapeutics in recognition of significant contributions in the field of veterinary pharmacology.

Arthur derived much joy and satisfaction from helping others. This was true during his working career and was the major focus of his retirement activities. One of his favorite outreaches was the tutoring/mentoring program through the Communities In Schools. He was recently recognized for his fifteen years of service with "The Most Valuable CIS Tutor/Mentor Award" for "The Most Outstanding Dedication and Service by a Volunteer in the History of the Communities in Schools of Wake County."

A memorial service was held on Monday, September 27, 2010 at 2:00pm at Holy Trinity Lutheran Church.

Friends may wish to contribute to a memorial fund in his name at Holy Trinity Lutheran Church, 2723 Clark Avenue Raleigh, NC 27607 or to The Communities in Schools Arthur L. Aronson Scholarship Fund. Donations can be mailed in his honor to Communities of Wake County, 971 Harp Street, Raleigh, NC 27604.

Published in *The News & Observer* on September 25, 2010.

Complete obituary: <http://www.legacy.com/obituaries/newsobserver/obituary.aspx?n=arthur-aronson&pid=145603328#ixzz111PDdh9>

President's Club. More important than his career, awards and honors were his family. He loved spending time with the grandchildren at the family farm in Lithopolis. They had a great time outdoors fishing and being with all the animals. His family and friends will greatly miss his unconditional love and support, sense of humor and his story telling. Thomas is preceded in death by his sister Winnifred Jones, brothers Marcus and Warren Powers. He is survived and will be greatly missed by his loving wife of 35 years, Jean. He is also survived by their children, Dr. Stephen (Tina) Powers, Michael (Gail) Powers, Cheryl (Carlos) Marquez, Dr. Karen (Steven) Heiser, Dr. William (Bonnie) Hensel. He is also survived by his mother-in-law, Dorothy Rawlings; many loving grandchildren, great-grandchildren; and numerous nieces and nephews. He is also survived by his special friends, Dr. Joe McCracken and Dr. Bob Hamlin.

Contributions in Thomas' memory may be made to the OSU Dr. Thomas E. Powers Endowed Chair, Veterinary Clinical Pharmacology; 1900 Coffee Rd., Columbus, OH. 43210.

Published in the *Columbus Dispatch* from July 16-17, 2010. <http://www.schoedinger.com/obituaries/Thomas-Powers/#/ObitAndService>

Find us on the web at
www.AAVPT.org

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Please kindly address all correspondence to:

Dr. Maya M. Scott
College of Veterinary Medicine & Biomedical Sciences
Dept VTPP
4466 TAMU
College Station, TX 77843-4466
USA
E-mail: mScott@cvm.tamu.edu

AAVPT
PROMOTING THE SCIENCE OF
VETERINARY PHARMACOLOGY AND
THERAPEUTICS

The **objectives** of the Academy are:

To support and promote the education and research in comparative pharmacology, clinical veterinary pharmacology and other aspects of pharmacology of interest to the veterinary profession.

To sponsor a periodical Journal of the Academy which will publish reviews, summaries and original treatises on all aspects of veterinary pharmacology and therapeutics. The Journal of Veterinary Pharmacology and Therapeutics shall be an official instrument of the Academy.

To sponsor and conduct workshops, symposia or other scientific and educational meetings in veterinary pharmacology and therapeutics.

To enhance the exchange of educational materials and ideas among veterinary pharmacologists.

To organize committees of experts to research and make recommendations to the profession on current problems in veterinary therapeutics.

