

# AMERICAN ASSOCIATION OF VETERINARY LABORATORY DIAGNOSTICIANS, INC.

August 1999

This year's annual  
USAHA/AAVLD meeting:

**SAN DIEGO, CA**

October 7-14, 1999

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## PREMEETING SYMPOSIA:

### **\*Veterinary Mycology Workshop\***

Thursday, October 7  
10:00am - 4:00pm  
Registration-75.00, page 20  
Limited enrollment

### **\*Serology Quality Assurance Workshop\***

Thursday, October 7  
3:00pm-6:30pm  
Registration-35.00, page 19  
Limited enrollment

### **\*Transmissible Spongiform Encephalopathies\***

Thursday, October 7  
8:00am-12:00pm  
Registration page 21  
Limited enrollment

### **\*Johne's Culture Techniques\***

Thursday, October 7  
8:00am-5:00pm  
Details page 21

## **Notice: HOD to vote on dues policy changes!!**

The AAVLD Executive Board has recommended and approved the following changes to dues policies in order to ensure timely delivery of JVDI and the membership directory. . These changes will be proposed for adoption at the House of Delegates meeting in October:

1. For membership in 2000, dues will be due December 1, 1999. Dues received after that time will incur a \$10 penalty fee. For membership in 2001 and thereafter, dues will be due by November 1 of the preceding year and a late charge will be incurred on payments made after November 1.
2. For membership in 2000, members will be purged from the rolls of the association and dropped from the directory if payment is not received by February 1, 2000. For membership in 2001 and thereafter, members will be purged from the rolls and dropped from the directory if payment is not received by January 1 of the year of membership.
3. No hard copy back issues of the JVDI will be provided to members who pay after the December 1 (November 1 for 2001 and thereafter) deadline. PDF-formatted copies will be available to members who have email.

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Doris Miller  
**President**

Bruce Akey  
**President-Elect**

David Zeman  
**Vice President**

Stan Snyder  
**Immed. Past-President**

Art Bickford  
**Secretary/Treasurer**

Steven Rowell  
**Northeast**

Lenn Harrison  
**Southeast**

Gary Osweiler  
**Northcentral**

William Edwards  
**Southcentral**

Jerry Heidel  
**Northwest**

Frank Galey  
**Southwest**

OPEN  
**Canada Provincial**

W.D.G. Yates  
**Canada Federal, ex-officio**

OPEN  
**Ex-Officio, NVSL**

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## President's Message ..... Doris M. Miller

We are well into the year and our next annual meeting is fast approaching. AAVLD members have been very busy as you will be able to see from the minutes of the Executive Board and the committee reports. Dr. Akey and several key committees have planned excellent pre-convention sessions for Thursday prior to the beginning of the meeting. The meeting program for this year offers something for everyone with topics of interest for both AAVLD and USAHA.

Thanks to the efforts of many people but especially Dr. David Zeman, Dr. Art Bickford and the Membership Committee, we now have 1075 members! This steady growth is healthy for an organization and its budget. However, please note the changes proposed for dates of dues payment, late fees, and being dropped from the membership rolls. This change is necessary for our Journal and Directory publication.

During June, I attended my first World Association of Veterinary Laboratory Diagnosticians (WAVLD) meeting which was held in College Station, Texas. Thank you, Dr. Konrad Eugster and your staff for all your hard work putting together this program. The meeting and hospitality were excellent and AAVLD was well represented.

Dr. Jim England has updated the AAVLD exhibit. This exhibit was displayed at both the WAVLD and the AVMA meetings. If anyone would like to use this exhibit at a regional meeting, I would encourage you to contact Dr. England for specifics. A big thank you also goes to Dr. Michael Groves who helped transport this exhibit from Texas to the AVMA meeting.

As summer comes to a close, start making plans to attend the last AAVLD/USAHA meeting of this century in San Diego, California, October 7-14, 1999. Stay healthy and happy. See you in October!

# MEETING ANNOUNCEMENTS

**August 12-13 — Midwest Association of Veterinary Pathologists, 18th Annual Summer Meeting,** will be hosted by the Animal Disease Diagnostic Laboratory, Ohio Department of Agriculture. The meeting will be held at the Hueston Woods Resort and Conference Center. The contact person is Dr. Sheila Grimes, Animal Disease Diagnostic Laboratory, 8995 E. Main Street, Bldg. 6, Reynoldsburg, OH 43068 (614-728-6220, e-mail-grimes@odant.agri.state.oh.us)

**September 12-15 — Virulence Mechanisms of Bacterial Pathogens, Ames, IA.** Registration: [www.nadc.ars.usda.gov/virulence\\_mechanisms](http://www.nadc.ars.usda.gov/virulence_mechanisms)

**September 15-17 — International Workshop on Tuberculosis in Animals, Ames, IA.** Registration: <http://www.vetmed.iastate.edu/iicab/tbworkshop.html>

**October 1 - 2 — South Central Meeting, Davis Foundation for the Advancement of Veterinary Pathology** at the University of Texas Medical Branch, Galveston, TX. Short case reports with slides sets are invited from the attendees. Dr. Sparks Veasey, Assist. Professor and Director of Autopsy Division, UTMB-Galveston, is the invited speaker and will present "Forensic Pathology." For more information contact Dr. Cory Brayton, email: [cbrayton@bcm.tmc.edu](mailto:cbrayton@bcm.tmc.edu) or phone: 713-798-3121.

**October 3-5 —50th North Central Avian Disease Conference and Symposium on Emerging Respiratory Diseases** will be held at the Minneapolis Airport Hilton in Minneapolis, MN. For information please contact Dr. Daniel Shaw, Program Chair, Department of Veterinary Diagnostic Medicine, College of Veterinary Medicine, University of MN, 1333 Gortner Avenue, St. Paul, MN 55108. Ph. 612-625-4256; FAX 612-624-8707; E-mail [shawx006@tc.umn.edu](mailto:shawx006@tc.umn.edu).

**October 7 - 14 — AAVLD and USAHA Annual Meeting, San Diego, CA** at the Town and Country Hotel. Note the meeting dates are one day earlier starting on Thursday rather than Friday. Registration material available via <http://www.aavld.org> or USAHA office at 804-285-3210. Deadline for preregistration is September 3 and for convention rate room reservations is September 9, 1999.

**October 13 - 15: Annual Society of Quality Assurance** meeting will be held at the Palmer House Hilton Hotel in Chicago, IL. Pre-meeting training sessions will be held October 11-12. Further information is available from SQA headquarters at (703) 684-4050, or from their web site at: [www.sqa.org](http://www.sqa.org).

**October 23-24 — Northeast Veterinary Pathology Conference,** in Cobleskill, NY. Dr. Tracy McNamara of the Bronx Zoo will be the guest speaker on Saturday. **Case submission deadline is September 15th.** Contact person: Dr. Lois Roth, Angell Memorial Animal Hospital, Department of Pathology, 350 S Huntington Ave. Boston, MA 02130. Phone: 617-451-5020. Email: [lroth@mcpc.org](mailto:lroth@mcpc.org).

**November 14-19 — 1999 ACVP Annual Meeting & 50th Anniversary Celebration** will be at the Palmer House in Chicago, Illinois. The Education Program is on the website at <http://www.afip.org/acvp/educprog.html>. Special events include the 50th Anniversary Gala at the Shedd Aquarium on November 17 and two workshops: LASER Capture Microdissection on Tuesday, November 16 and Pathology of Fish on Friday afternoon, November 19. Sign-up information for each workshop will be mailed to ACVP members or may be requested from the Executive Office's Meetings Department (609-423-7222 x 350; e-mail: [acvpmtg@talley.com](mailto:acvpmtg@talley.com)) in August. Enrollment is limited and slots not taken by meeting registrants will be open to nonregistrants in the fall. The American Society of Veterinary Clinical Pathology (ASVCP) will meet November 14 -16. The International Life Sciences Institute (ILSI) will present a seminar on in-situ hybridization, Monday, November 15.

# AAVLD/USAHA meeting in San Diego, October 7-14

Registration materials for the meeting are also available on the USAHA (<http://www.usaha.org>) and the AAVLD (<http://www.aavld.org>) web sites. Deadline for pre-registration is September 3.

Information on San Diego attractions, city and area maps and things to see and do is available on the San Diego Convention and Visitors Bureau web site: <http://www.sandiego.org>. This site contains the following information: Major visitor information services including lodging, dining, shopping, arts & attractions, sports & recreation, transportation, and Mexico and features such as the Frequently Answered Questions, visitor events and San Diego information sections. The site includes everything that is in the printed guide (San Diego Official Visitor Planning Guide) and has added a few things to provide you with the best possible web site planning tool for visiting San Diego.

The site of the 1999 convention will be the **Town and Country Hotel** at 500 Hotel Circle N., San Diego, CA 92108. (619) 291-7131, FAX (619) 294-4681, US (800) 772-8527. Visit their web site at <http://www.towncountry.com> Hotel features spa and health club, 4 pools and jacuzzi, 5 restaurants, 4 lounges with live entertainment, championship golf next door, close to all major attractions. Walk to Fashion Valley shopping. Trolley Station on property. Theatres & night clubs within walking distance. Tennis, racquetball & spa facilities nearby. Layout of convention rooms on their web site.

## Town And Country Hotel Reservations

**Please don't forget- make check or money order payable to TOWN & COUNTRY RESORT.  
Please do not send currency.**

**CANCELLATION POLICY. Deposits refundable if reservation is cancelled 48 hours in advance of arrival date. Be sure to record your cancellation number.**

## United States Animal Health Association October 7 - 14, 1999 Annual Conference

Please reserve accommodations for (please print or type)

Name: \_\_\_\_\_ Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Sharing room with: \_\_\_\_\_

CHILDREN UNDER 18 FREE  
WHEN STAYING WITH PARENTS  
AND UTILIZING EXISTING BEDS

Additional charges of TWENTY DOLLARS (\$20.00) for each EXTRA PERSON

Signature: \_\_\_\_\_

PLEASE INCLUDE FIRST NIGHT'S DEPOSIT BY CHECK OR DEPOSIT CAN BE CHARGED TO ONE OF THE FOLLOWING CREDIT CARDS TO CONFIRM YOUR RESERVATION

Amex                       Diners                       MasterCard    CC# \_\_\_\_\_  
 Carte Blanche             Discover                     Visa                      Exp. Date \_\_\_\_\_

Circle Rate:	Garden Rooms	Court Yard	West Tower
Single	\$95.00	\$105.00	\$115.00
Double	\$95.00	\$105.00	\$115.00
Triple	\$110.00	\$120.00	\$120.00
Quad	\$110.00	\$120.00	\$120.00

RATES PLUS PREVAILING TAX.

Estimated time of arrival: \_\_\_\_\_  
 Arrival date: \_\_\_\_\_  
 Departure date: \_\_\_\_\_

Check in 3:00pm- Check-out 12 noon)  
 Reservations processed before 9/15/99 receive priority  
 consideration at Town & Country. Overflow housing  
 arrangements will be made as necessary.

If rate requested is not available, nearest available rate will be assigned.  
 convention rate will be extended three days before and three days after meeting on availability basis only. Sorry! No Pets.  
 RESERVATIONS (800) 772-8527

# USAHA/AAVLD Registration for 1999 Annual Meeting

Please Print--Check All Spaces Applicable:

USAHA Member \_\_\_ AAVLD Member \_\_\_ Non-Member \_\_\_

Program Speaker \_\_\_

Dr. \_\_\_ Mr. \_\_\_ Ms. \_\_\_

Last Name \_\_\_\_\_ First Name \_\_\_\_\_ Initial \_\_\_

Hotel \_\_\_\_\_

Address: \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_ Zip \_\_\_\_\_

Affiliation \_\_\_\_\_

Phone No. \_\_\_\_\_

E-Mail \_\_\_\_\_

Fax No. \_\_\_\_\_

Preregistration Deadline - Sept. 3, 1999

Preregistration (Members)	\$180.00	\$ _____
Preregistration (Non-Members)	\$200.00	\$ _____
Spouses Registration (see below)	\$50.00	\$ _____
Registration At Meeting (Members)	\$205.00	\$ _____
Registration At Meeting (Non Members)	\$225.00	\$ _____
U.S.A.H.A. Annual Dues - 2000	\$75.00	\$ _____
A.A.V.L.D. Annual Dues - 2000	\$50.00	\$ _____
Total		\$ _____

## Spouse's Registration

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Check No. \_\_\_\_\_ Amount \_\_\_\_\_

Fill out & return with your check/money order to:

UNITED STATES ANIMAL HEALTH ASSOCIATION

8100 Three Chopt Road, Suite 203

P. O. Box K227

Richmond, Virginia 23288

(804) 285-3210

FAX (804) 285-3367

**42<sup>nd</sup> ANNUAL MEETING OF THE  
AMERICAN ASSOCIATION OF VETERINARY LABORATORY DIAGNOSTICIANS**  
Town and Country Resort Hotel  
San Diego, California  
October 7 – 12, 1999

**USAHA/AAVLD Conference Registration**

Friday, October 8, Atlas Foyer	3:00 p.m. - 6:00 p.m.
Saturday, October 9, Atlas Foyer	11:00 a.m. - 4:00 p.m.
Sunday, October 10, Mission Foyer	8:00 a.m. - 5:00 p.m.
Monday, October 11, Mission Foyer	8:00 a.m. - 5:00 p.m.

**AAVLD Exhibits and Posters**

Saturday, October 9	SET-UP	Calif./Golden West Rooms	9:00 a.m. - 12:00 Noon
	OPEN		1:00 p.m. - 5:00 p.m.
Sunday, October 10			8:00 a.m. - 5:30 p.m.
Monday, October 11			8:00 a.m. - 11:00 a.m.

**AAVLD Information Desk**

Saturday, October 9	Outside of California Room	10:00 a.m. - 5:00 p.m.
Sunday, October 10		8:00 a.m. - 5:00 p.m.
Monday, October 11		8:00 a.m. - 12:00 Noon

**Speaker Ready Room**

Saturday, October 9, Galleria II Room	8:00 a.m. - 5:00 p.m.
Sunday, October 10, Devonshire Room	8:00 a.m. - 5:00 p.m.
Monday, October 11, Devonshire Room	8:00 a.m. - 12:00 Noon

**Thursday, October 7, 1999**

— Johne's Culture Techniques Workshop, 8:00 am - 5:00 pm	Council/Chamber Room
— Transmissible Spongiform Encephalopathies Histopathology Workshop, 8:00 a.m. - 12:00 noon	California Room
— Veterinary Mycology Workshop, 10:00 a.m. - 4:00 p.m.	Forum/Senate Rooms
— Accreditation Committee, 1:00 p.m. - 5:00 p.m.	Cabinet Room
— Serology Quality Assurance Symposium, 3:00 p.m. - 6:30 p.m.	Le Pavillon – East Tower
— Program Committee, 7:00 p.m. - 8:30 p.m.	Cabinet Room
— Vet-LIMS Users, 7:00 p.m. - 10:00 p.m.	Committee Room

**Friday, October 8, 1999**

— Financial Advisory Committee, 7:30 a.m. - 8:30 a.m.	Senate Room
— Subcte on Bacteriology, Mycology & Mycoplasma, 8:00 a.m. - 10:00 a.m.	California Room
— Executive Committee, 8:00 a.m. - 10:00 a.m.	Council Room
— Accreditation Committee, 8:00 a.m. - 12:00 Noon	Cabinet Room
— Subcommittee on Anaerobic Infections, 10:00 a.m. - 12:00 Noon	Forum Room
— Long Range Planning Committee, 10:00 a.m. - 12:00 Noon	Senate Room
— Virology Committee, 12:00 Noon - 3:00 p.m.	San Diego Room
— Subcomm on Antimicrobial Susceptibility Testing, 1:00 p.m. - 3:00 p.m.	Committee Room
— Executive Board, 1:00 p.m. - 5:00 p.m.	Council Room
— Informatics Committee, 3:00 p.m. - 5:00 p.m.	Chamber Room
— Serology Committee, 3:00 p.m. - 6:00 p.m.	San Diego Room
— Editorial Board of JVDI, 3:00 p.m. - 10:00 p.m.	Cabinet Room
— Foundation Committee, 6:00 p.m. - 8:00 p.m.	Committee Room
— Diagnostic Bacti Case Presentations, 7:30 p.m. - 10:00 p.m.	Senate Room

**42<sup>nd</sup> ANNUAL MEETING OF THE  
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Town and Country Resort Hotel  
San Diego, California  
October 7 – 12, 1999

**Saturday, October 9, 1999**

- |  |                       |
|--|-----------------------|
| — Publications Committee, 8:00 a.m. – 10:00 a.m.   | Chamber Room          |
| — Enteric Diseases Committee, 8:00 a.m. - 10:00 a.m.   | Council Room          |
| — Laboratory Safety/Waste Disposal Committee, 8:00 a.m. - 12:00 Noon   | Committee Room        |
| — AAVLD/USAHA - Animal Health Information Systems Cte, 8:00 a.m. - 12:00   | Town & Country Room   |
| — ABVT Executive Board, 9:00 a.m. - 11:00 a.m.   | Senate Room           |
| — AAVLD/USAHA - Aquaculture Committee, 9:00 a.m. - 12:00 Noon  | Garden South Room     |
| — Constitution and Bylaws Committee, 10:00 a.m. - 12:00 Noon   | Cabinet Room          |
| — Subcommittee on Mycobacteriology, 10:00 a.m. - 12:00 Noon  | Garden North Room     |
| — Membership Committee, 11:00 a.m. - 12:00 Noon  | Chamber Room          |
| — Plenary Scientific Session, 1:00 p.m. - 4:00 p.m.  | Town & Country Room   |
| — Administrative Management Personnel Cte, 1:00 p.m. - 5:00 p.m.   | Cabinet Room          |
| — Mycotoxin Committee, 3:00 p.m. - 5:00 p.m.   | Chamber Room          |
| — House of Delegates and General Membership, 4:00 p.m. - 5:00 p.m.   | Town & Country Room   |
| — Histopathology Slide Seminar, 6:30 p.m. - 9:00 p.m.  | San Diego Room        |
| — Vet Analytical Toxicology Advisory Committee, 7:30 p.m. - 8:30 p.m.  | Sheffield Room        |
| — Bluetongue Committee, 7:30 p.m. - 10:00 p.m.   | Council/Chamber Rooms |
| — Laboratory Directors Committee, 8:00 p.m. - 10:00 p.m.   | Garden South Room     |
| — Bacteriology Steering Committee, 8:00 p.m. - 10:00 p.m.  | Senate Room           |
| — Veterinary Analytical Toxicology General Meeting and USAHA<br>Environmental Residues Committee, 8:30 p.m. - 10:00 p.m. | Sheffield Room        |

**Sunday, October 10, 1999**

- |  |                       |
|--|-----------------------|
| — Scientific Session – Toxicology/Microbiology, 8:00 a.m. - 12:00 Noon | Presidio Room         |
| — Scientific Session A - Microbiology, 8:00 a.m. - 12:00 Noon          | San Diego Room        |
| — Administrative Management Personnel Cte, 8:30 a.m. - 12:00 Noon      | Senate Room           |
| — Scientific Session – Epidemiology/Avian, 1:00 p.m. – 5:15 p.m.       | Windsor/Hampton Rooms |
| — Scientific Session B – Microbiology, 1:00 p.m. – 5:00 p.m.           | Town & Country Room   |
| — Scientific Session - Pathology, 1:00 p.m. - 5:00 p.m.                | Presidio Room         |
| — AAVCT Annual Meeting, 1:30 p.m. - 2:30 p.m.                          | Committee Room        |
| — AAVCT Scientific Session - Toxicology, 2:30 p.m. - 5:00 p.m.         | Committee Room        |
| — AAVLD-USDA Emergency Disease Liaison Cte, 4:00 p.m. - 5:00 p.m.      | Esquire Room          |
| — Epidemiology and Economics Committee, 4:00 p.m. - 6:00 p.m.          | DeAnza Room           |
| — Pathology Committee, 5:15 p.m. - 6:30 p.m.                           | Sunrise Room          |
| — Joint AAVLD/USAHA Reception, 5:30 p.m. – 6:45 p.m.                   | Atlas Foyer           |
| — Joint AAVLD/USAHA General Session, 7:00 p.m. – 8:00 p.m.             | Town & Country Room   |

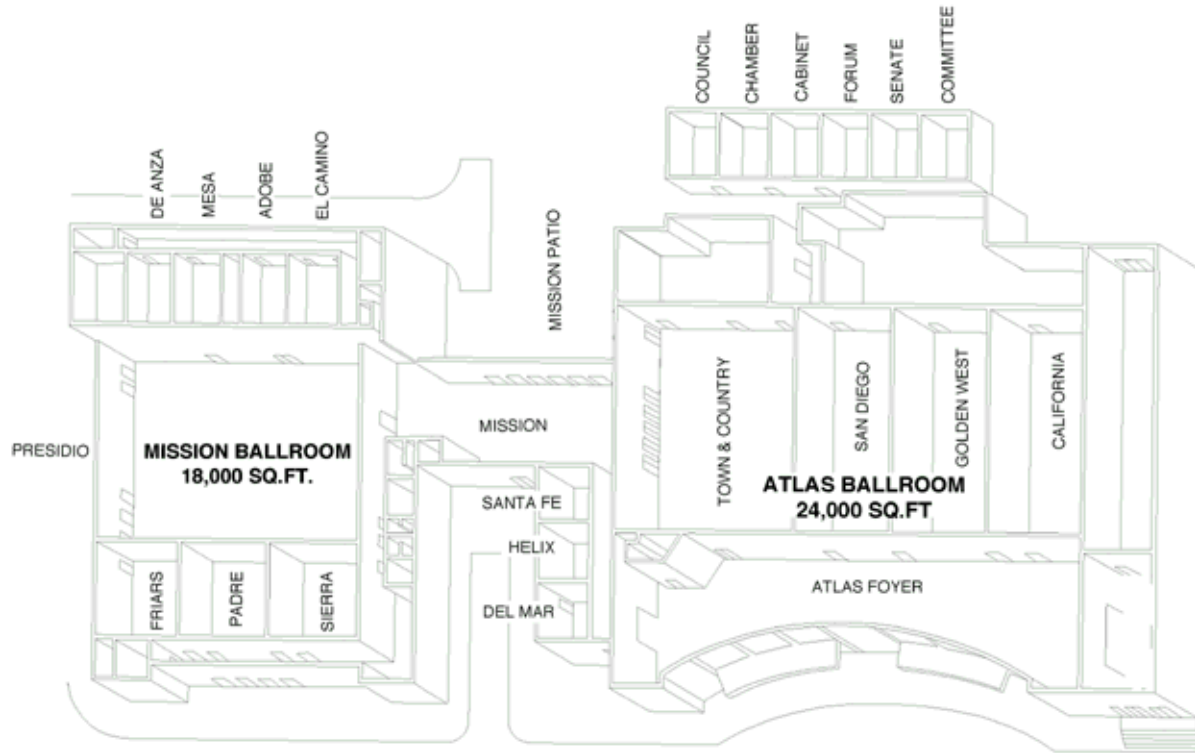
**Monday, October 11, 1999**

- |  |                       |
|--|-----------------------|
| — Past Presidents Breakfast, 7:00 a.m. - 8:15 a.m.           | Dover Room            |
| — Scientific Session, 8:00 a.m. - 11:00 a.m.                 | Town & Country Room   |
| — Pope Award and House of Delegates, 11:00 a.m. - 12:00 Noon | Town & Country Room   |
| — Committee Chairs Meeting, 1:30 p.m. - 3:00 p.m.            | Adobe/El Camino Rooms |

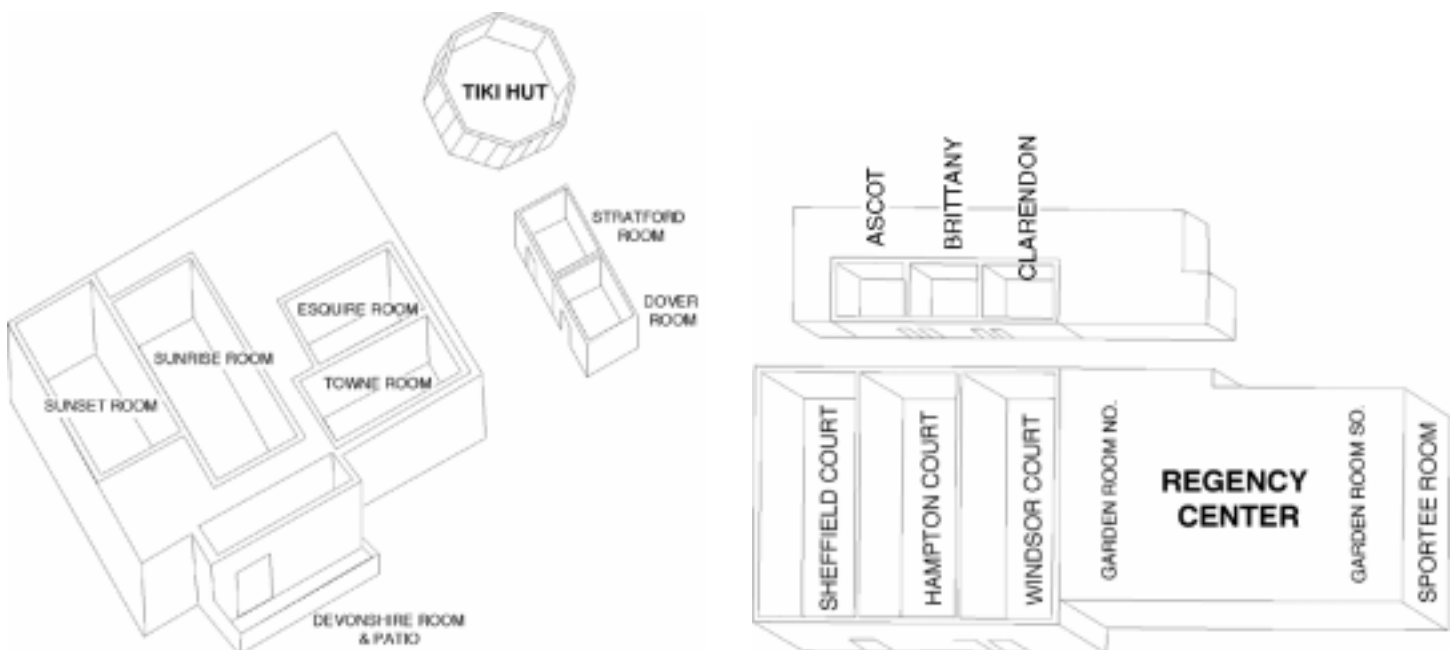
**Tuesday, October 12, 1999**

- |   |            |
|---|------------|
| — Program Committee, 8:00 a.m. - 10:00 a.m. | Towne Room |
|---|------------|

# Town & Country Meeting Room Floor Plan



**Convention Center: Meeting Room Specifications**





## Plenary Scientific Session Saturday 1:00 PM - 4:00 PM

Graduate Student Award Competition  
Sponsored by the AAVLD Foundation

- Moderators: Drs. Bruce Akey and Francois Elvinger
- 1:00 pm Detection of Bovine Viral Diarrhea Virus (BVDV) Persistently Infected Cattle Using Pooled-Sample Testing -C. Muñoz-Zanzi\*, W. Johnson, M. Thurmond and S. Hietala
- 1:15 pm Experimental Inoculation of European Starlings (*Sturnus vulgaris*) and American Crows (*Corvus brachyrhynchos*) with *Mycobacterium bovis* – K. Butler\*, S. Fitzgerald, D. Berry, S. Church, and W. Reed
- 1:30 pm Clinical and Immune Responses in Young Swine to Porcine Circovirus Type II Infection -R. Pogranichnyy\*, P. Harms, S. Swenson, J. Zimmerman, S. Sorden and K-J. Yoon
- 1:45 pm Hepatopathy Associated with Spontaneous Type II Porcine Circovirus Infection in Caesarian-Derived/ Colostrum-Deprived Pigs – P. Harms\*, S. Sorden and H. Rotto
- 2:00 pm Prevalence of *Listeria monocytogenes* and *Salmonella* Species in Milk Filters on New York State Dairy Farms – L. Hassan\*, R. Gonzalez, C. Batt, P. McDonough and H. Mohammed
- 2:15 pm A Survey of Iowa Bovine Veterinarians on Johne's Disease in Cattle -S. Robbe\*, J. Thomson, M. Pence, P. Smith
- 2:30-3:15 pm POSTER SESSION and BREAK
- 3:15 pm Immunohistochemical Detection of Scrapie Prion Proteins from Pre-clinical Sheep in Pennsylvania – H. Kim, K. O'Rourke, M. Walter and G. Purchase
- 3:30 pm Neuroanatomical Distribution and Patterns of Histological Lesions and Immunohistochemical Staining of Prion Protein in Mule Deer (*Odocoileus hemionus*) with Pre-clinical Chronic Wasting Disease – T. Spraker, R. Zink, B. Cummings, M. Miller and K. O'Rourke
- 3:45 pm A Preclinical Live Animal Test for Prions in Lymphoid Tissues from Sheep – K. O'Rourke
- 4:00-5:00 pm House of Delegates Meeting

\*Graduate Student presentation

## Microbiology Session A Sunday 8:00 AM - 12:00 Noon

- Moderators: Dr. Karen Post and Tom Inzana
- 8:00 am A New Adenovirus Species Isolated from a Goat Kid in the U.S. -H. Lehmkuhl, B. DeBey and R. Cutlip
- 8:15 am Evaluation of a New Commercial Antigen Capture ELISA for Detection of Bovine Coronavirus in Fecal Samples – M. Gray, R. Huchzermeier, L. Saif, D. Zeman and F. Osorio
- 8:30 am Protection Against Lyme Disease with a Recombinant *Borrelia burgdorferi* Outer Surface Protein A (rOspA) Vaccination in Horses – Y. Chang, V. Novosol, S. McDonough, R. Jacobson, C. Chang, T. Divers, F. Quimby, S. Shin and D. Lein
- 8:45 am Experimental Infection of Ponies with *Borrelia burgdorferi* by Exposure to Ixodid Ticks  
-Y. Chang, V. Novosol, S. McDonough, R. Jacobson, C. Chang, T. Divers, F. Quimby, S. Shin and D. Lein
- 9:00 am Experimental Induction of Chronic Lyme Disease in Young Adult Dogs — Y. Chang, V. Novosol, C. Chang, B. Summers, Y. Chiang, W. Acree, H. Chu, S. Shin and D. Lein
- 9:15 am Isolation of a *Brucella* species from Pacific Harbor Seals (*Phoca vitulina richardsi*), Ringed Seals (*Phoca hispida*), Harp Seals (*Phoca groenlandica*), and Bottlenose Dolphins (*Tursiops truncatus*) in North America – D. Ewalt, B. Bricker, D. Lambourn, O. Nielsen, L. Forbes, L. Measures, W. Miller, J. Maratea, J. Payeur, and S. Jeffries
- 9:30 am Application of Single Strand Conformational Polymorphism (SSCP) Analysis to the Study of Bovine Viral Diarrhea Virus (BVDV) Isolates – L. Jones and E. Weber
- 9:45 am An “Unusual” Case of Persistent BVD Infection in Cattle with Type 2 BVD Virus and Circulating Neutralizing Antibodies – J. Saliki, R. Prather, R. Fulton, and R. Mock
- 10:00-10:30 BREAK
- 10:30 am Bovine Viral Diarrhea Virus: Analysis of Cell Culture Results -D. Sockett, D. Kreeger, K. Rathman, T. Nienstedt, R. Stolen, S. Hahn and M. Modderman
- 10:45 am *Clostridium perfringens* Type A Strains Recovered from Acute Hemorrhagic Enteritis of Adult Dairy Cattle – C. Maddox, A. Hattel, T. Drake and D. Weinstock
- 11:00 am A Comparison of the Difco ESP® MYCO System and the Becton-Dickinson BACTEC® 460 for the Isolation of Mycobacteria from Tissues of Animal Origin – J. Marquardt, J. Payeur, J. Keeler, and J. Fevold
- 11:15 am Naturally Occurring Tuberculosis in White-tailed Deer -M. Palmer, D. Whipple, J. Payeur, D. Alt, K. Esch and C. Bruning-Fann
- 11:30 am A Comparison of *Mycobacterium bovis* Isolates from Cattle and White-tailed Deer Using Restriction Fragment Length Polymorphism (RFLP) – J. Jarnagin, J. Keeler and J. Payeur
- 11:45 am New Diagnostic Test for Johne’s Disease in Cattle -J. Crabb, R. Sweeney, H. Cressman, S. McAdams and R. Whitlock

## Toxicology/Microbiology Session Sunday 8:00 AM - 12:00 Noon

- Moderators: Drs. Catherine Barr and Frank Gale
- 8:00 am Diagnosis of Aflatoxin Exposure in Liver Sections of Rats Using an Antibody to Aflatoxin-DNA Adducts – S. Hooser, J. Harms, J. Reagor, R. Hoffman, A. Barr, R. Roth and C. Barton
- 8:15 am A Rapid Test for Grayanotoxins in Biological Samples using LC/MS – D. Holstege, B. Puschner, T. Le, and F. Gale
- 8:30 am Salt toxicosis in Ruddy ducks in San Joaquin Valley of California –H. Shivaprasad, A. Gordus, and P. Swift
- 8:45 am Azalea (*Rhododendron* spp.) Toxicosis in a Group of Nubian Goats – B. Puschner, D. Holstege, D. Fontenot and F. Gale
- 9:00 am Paraquat Toxicosis in Dogs – S. Tkalcic, B. Harmon and D. Miller
- 9:15 am A Presumptive Diagnosis of Botulism Toxicosis in Twelve Horses and a Mule – S. Hall, M. Schoenbaum, R. Glock, K. Grant, A. Jenny, T. Schiefer, P. Scigliabaglio and R. Whitlock
- 9:30 am Disappearance of Blood Lead in Cattle with Accidental Lead Toxicosis – W. Rumbelha, W. Braselton, and D. Donch
- 9:45 am The Rapid Determination of Eight Elements in Diluted Bovine Serum by Sequential Axial ICP/AES – R. Smith
- 10:00-10:30 BREAK
- 10:30 am Use of Diphenylamine Reagent as an On-Site Quick Test for Nitrate Toxicosis -D. Murphy and T. Hooper
- 10:45 am Macrolide Endectocides: When Good Drugs Go Bad – R. Poppenga, W. Birdsall, M. Beal, S. Smith and J. Dell
- 11:00 am Current Screening Test for Ethylene Glycol Intoxication and Potential Pitfalls – D. Gerken
- 11:15 am Management and Outcome of an Outbreak of Copper Poisoning in a Holstein Dairy Herd  
F. Gale, M. Brandt, C. Meadows, M. Etchebarne, P. Blanchard and J. Maas
- 11:30 am Detection of *Mycoplasma hyopneumoniae* by Nested PCR: A Comparison of Specimen Type and Extraction Methods – T. Fraser, J. Christopher-Hennings, K. Rossow, E. Thacker, P. Ahrens, R. Chapin, A. Wasilk and E. Nelson
- 11:45 am Molecular Characterization of the Relationship Between Distemper Cases in a Snow Leopard and Raccoons – A. Vilnis, J. Sikarskie, C. Benson, T. Mullaney and R. Maes

## Microbiology Session B

### Sunday 1:00 PM - 5:00 PM

- Moderators: Drs. Sagar Goyal and Brenda Love
- 1:00 pm Retrospective Study of Porcine Circovirus Infection in Porcine Tissues Submitted to the Iowa State University Veterinary Diagnostic Laboratory Using in situ Hybridization — S. Sorden, B. Thacker, P. Harms, T. Sirinarumitr, I. Morozov and P. Paul
- 1:15 pm A Survey of PRRSV Detection Methods – K. Lager and W. Mengeling
- 1:30 pm A Nested-Set Reverse Transcriptase-Polymerase Chain Reaction for Use in Restriction Fragment Length Polymorphism Analysis of Strains of Porcine Reproductive and Respiratory Syndrome Virus – W. Mengeling and A. Umthun
- 1:45 pm A New Competitive ELISA for Serological Monitoring of Swine Influenza  
E. Cornaglia, G. Laganieri, R. Lallier, J. Arora and S. Dea
- 2:00 pm Infection of Domestic Gilts with Pseudorabies Virus Isolated from Feral Pigs  
E. Howerth, D. Stallknecht, V. Lester, M. Murphy, J. Galeota, F. Osorio
- 2:15 pm Isolation and Epidemiology of A New Subtype (H3N2) of Swine Influenza Virus in Swine in the North Central United States – K-J Yoon, B. Janke, P. Halbur, D. Larson, K. Schwartz, S. Sorden, M. Yaeger and S. Swenson
- 2:30 pm Development of a PCR-Based Differential Test for H1N1 and H3N2 Swine Influenza Viruses  
K. Harmon, S. Krauss and K-J. Yoon
- 2:45 pm New Approaches to Swine Influenza Virus Isolation – G. Erickson, S. Krauss, J. Landgraf, S. Swenson, S. Greer-Graham
- 3:00 -3:30 BREAK
- 3:30 pm A Comparison of Hemagglutination Inhibition Tests To Detect Swine Influenza Virus H3N2 Antibodies – L. Fawcett, G. Erickson, K. Eernisse, W. Lu, S. Daniels, S. Swenson, E. Nelson, D. Zeman, R. Hesse, and C. Chase
- 3:45 pm Discrimination Between Two Ruminant Subgroups of Respiratory Syncytial Virus Using Peptide-Based ELISA's Developed From the G-glycoprotein of Each Virus – S. Grubbs, S. Kania and L. Potgieter
- 4:00 pm Determination of Minimum Inhibitory Concentrations of Streptomycin for Resistant *Salmonella* Isolates and Evaluation of a Micro-Broth Dilution System – L. Farrington, R. Harvey, R. Droleskey, L. Stanker and P. Inskip
- 4:15 pm Improved Diagnostic Tests for Serology and Typing of *Actinobacillus pleuropneumoniae*  
-T. Inzana, J. Schuchert, and B. Fenwick
- 4:30 pm Serological Detection of Swine Exposed to *Salmonella* spp. – J. Gray and P. Fedorka-Cray
- 4:45 pm Potential Source of *Salmonella typhimurium* DT104 Infection In Multi-site Swine Units in Ohio – B. Love and G. Duhamel

## Pathology Session

### Sunday 1:00 PM - 5:00 PM

- Moderators: Drs. David Zeman and Shelley Newman
- 1:00 pm Experimental Infection of Cattle with *Brucella* sp Isolated from a Pacific Harbor Seal (*Phoca vitulina richardsi*) – J. Rhyan, T. Gidlewski, D. Ewalt, S. Hennager and S. Olsen
- 1:15 pm Immunohistochemical Staining of Skin Biopsies to Detect Bovine Viral Diarrhea Virus -B. Njaa
- 1:30 pm Comparison of Post-mortem Techniques for the Detection of *Mycobacterium bovis* in White-tailed Deer – S. Fitzgerald, K. Butler, K. Clarke, J. Fierke, S. Schmitt, C. Bruning-Fann, D. Berry and J. Kaneene
- 1:45 pm Experimental Infection of Pigs with H3N2 Swine Influenza Virus – S. Swenson, J. Landgraf, B. Harris, G. Erickson, D. Hutto, A. Wilson, S. Hall and B. Schmitt
- 2:00 pm Experimental Inoculation of Conventional Pigs with H3N2 Subtype Swine Influenza Virus Isolated from U.S. Swine – B. Janke, K-J Yoon and P. Halbur
- 2:15 pm Spongy Degeneration in the Central Nervous System of Shetland Sheepdog Puppies  
J. Patterson and S. Wood
- 2:30 pm Myocardial Histopathological Changes in Dogs with Dilated Cardiomyopathy and those with Occult Heart Disease – L. Badcoe, M. Maxie, L. McCutcheon, M. O'Grady and A. Hayes
- 2:45 pm *Naegleria fowleri* Meningoencephalitis in Holstein Cattle Associated with Drinking Surface Water – B. Daft, H. Kinde, D. Read and G. Visvesvara
- 3:00 -3:30 BREAK
- 3:30 pm A Severe Combined Immunodeficiency of Jack Russell Terriers – T. Bell, K. Butler, H. Sill, J. Stickle and J. Ramos-Vera
- 3:45 pm Intestinal Crypt Lesions in Dogs with Protein Losing Enteropathy – R. Helman and M. Willard
- 4:00 pm Experimentally-Induced Patent Enteric Infections of *Neospora caninum* in Dogs Do Not Result in Enteric or Extraintestinal Lesions – W. Jolley, D. O'Toole, A. McGuire, R. Wills and C. Jones
- 4:15 pm Bovine Congenital Microphthalmia and Unthriftiness Due to Pestivirus – L. Badcoe
- 4:30 pm Chromobacteriosis in a Chinese Red Panda (*Ailurus fulgens styani*) – N. Dyer, D. Krogh, R. DeVold and S. Wilson
- 4:45 pm An Outbreak of Hepatic Encephalopathy in Holstein Heifers – P. Blanchard, J. Adaska, F. Galey and M. Minnema

## Epidemiology/Avian Session Sunday 1:00 PM - 5:15 PM

Moderators: Drs. Jack Schmitz and Francois Elvinger

- 1:00 pm A Description of PRRS S:P Ratio Values in Negative Submissions to Veterinary Diagnostic Laboratories in South Dakota and Nebraska – W. Epperson and R. Wills
- 1:15 pm Evidence for Area Spread of PRRSV – K. Lager and W. Mengeling
- 1:30 pm Developing a Diagnostic Laboratory Database for Rapid Interlaboratory Response to Potential Bioterrorism Involving Animal Pathogens – G. Osweiler and W. Hyde
- 1:45 pm Status of Veterinary Health Information Standards – J. Case
- 2:00 pm Surveillance for Chronic Wasting Disease in Free-Ranging Deer and Elk in States Outside of the Known Endemic Areas in Colorado and Wyoming – A. Jenny, L. Detwiler, J. Jenks, L. Bulaga, D. Oates, S. Fitzgerald, L. Fox, K. Akin, C. Bruning-Fann, A. Doster, T. Gidlewski, C. Jaques, D. Johnson, J. Johnson, G. Kennedy, R. Sahara, S. Schmidt, G. Stevens and C. Sutton
- 2:15 pm A Population Approach to Laboratory Diagnosis of Bacterial Enteric Diseases of Growing Swine – G. Duhamel, M. Mathiesen, A. Jammula, and P. Zhang
- 2:30 pm Assessing the Risks of Poultry Flocks Shedding *Salmonella enteritidis* in Eggs  
S. Myers, C. Maddox and D. Henzler
- 2:45 pm Survey of Paratuberculosis in the Greater Michigan Area – M. Dark, J. Kanenee, B. Steficek and G. Bell
- 3:00-3:30 BREAK
- 3:30 pm Economic impact of Johne's Disease in Beef Cow-Calf Herds – S. Ott
- 3:45 pm Animal Disease Databases in USDA Veterinary Services – S. Weber
- 4:00 pm Cytomegalovirus Infection in Finches – H. Shivaprasad, L. Woods, B. Daft, and J. Kahler
- 4:15 pm Production of Specific Monoclonal Antibodies to the Hemagglutinin of the H7N2 Subtype of Avian Influenza Virus (AIV) for its Diagnosis in Avian Tissues – X. Wang, A. Castro, M. Castro, D. Weinstock, N. Soyster and M. Perdue
- 4:30 pm Clinical and Laboratory Trends for Infectious Bronchitis – F. J. Hoerr, L. Li, D. Heard, and L. Lauerma
- 4:45 pm Detection and Differentiation of Infectious Bronchitis Viruses Untypable to Serotype by RT-PCR and RFLP – L. Li, F. Hoerr, L. Lauerma and P. Woolcock
- 5:00 pm Chlamydiosis in Psittacine and Passerine Birds Associated with Severe Clinical Chlamydiosis in a Human – L. Woods

**Plenary Scientific Session  
Antimicrobial Susceptibility/Resistance  
Monday 8:00 AM - 11:00 AM**

Moderators:	Drs. Ching Ching Wu, Melissa Libal and David White
8:00 am	Introduction – M. Libal
8:10 am	Antimicrobial Resistance and Drug Discovery in Animal Health – J. Watts
8:40am	Antibacterial Resistance Mechanisms – D. White
9:10 am	How Does a Laboratory Know When to Call a Bacterium Susceptible or Resistant to an Antimicrobial Agent? – R. Walker
9:40 - 9:50	BREAK
9:50 am	Combining Microbiology and Clinical Pharmacology to Serve the Veterinary Profession M. Apley
10:20 am	Judicious Antimicrobial Use and Resistance Monitoring:A Challenge for the AVMA and the AAVLD –C. Wu
10:50 am	Panel and Audience Discussion
11:00 am	Pope Award and House of Delegates Meeting

## Poster Session

An Outbreak of Epizootic Hemorrhagic Disease in Missouri Cattle – C. Loiacono\*, S. Turnquist, E. Ostlund, G. Johnson, L. Pace, J. Turk, M. Miller, J. Kreeger, J. Ramos and H. Gosser

Silica Adsorption Template Purification and Small Volume Rapid PCR Cycling Can Be Successfully Adapted To Diagnostic PCR and RT-PCR Assays – S. Sells

Species-Specific Monoclonal Antibodies to the *E. coli*-expressed p36 Cytosolic Protein of *Mycoplasma hyopneumoniae* – J. Caron, K. Cheikh Saad Bouh, B. Ben Abdel Mouden, N. Sawyer and S. Dea

A Survey on Zoonotic Disease Recommendations and Laboratory Submissions Made by Iowa Veterinarians  
S. Robbe\*, J. Thomson, G. Osweiler, M. Apley and B. Thacker

Multiplex PCR Assay for Detection and Differentiation of *Mycoplasma hyopneumoniae* and *Mycoplasma hyorhinis* Infections in Pigs – J. Caron, M. Ouardani and S. Dea

Competitive ELISA for the Detection of Antibodies to Porcine Reproductive and Respiratory Syndrome Virus Using Recombinant *E. coli*-expressed Nucleocapsid Protein as Antigen – S. Dea, L. Wilson, D. Therrien, G. Laganière and E. Cornaglia

Histochemical Preparation of the Hoof Wall for Improved Histological Sectioning – S. Fox and S. Grimes

Detection of Porcine Circovirus Type 2 Following Experimental Transmission in Weaned Pigs – R. Magar, S. Thibault, L. Lamontagne and R. Larochelle

Amplification of Turkey Coronavirus Genes by Polymerase Chain Reaction – T. Lin, A. Akin and C. Wu

Multiplex PCR for Detection and Typing of Porcine Circoviruses – M. Ouardani, L. Wilson, R. Jetté, C. Montpetit and S. Dea

The Evaluation of a Proprietary Clay Binder in Ameliorating the Toxic Effects of Aflatoxin, Zearalenone, and Vomitoxin in the Diet of Weanling Swine – L. Pace, T. Evans, G. Rottinghaus and S. Casteel

Detection of Antibody to Turkey Coronavirus by Antibody-Capture Enzyme-linked Immunosorbent Assay  
C. Loa, C. Wu, T. Bryan, H. Thacker, T. Hooper, D. Schrader, and T. Lin

Multispecies Pythiosis in Missouri: 1987-1999 – S. Turnquist, M. Boucher, G. Johnson, J. Kreeger, M. Miller, L. Pace, J. Ramos, J. Turk, P. Johnson and F. Rodriguez

Detection of Avian Influenza Virus in *Carcinops pumilo*, a Beetle Used for Fly Control in Layer Houses  
C. Maddox, T. Petty III, J. Gray, J. Sobota, A. Castro and C. Pitts

A Clinical Case of Porcine Hemagglutinating Encephalomyelitis Virus Infection – C. Faubert, C. Montpetit and P. Labrecque

Serologic Survey of Cache Valley and Antigenically Related Viruses (Bunyamwera virus group) in Northeastern and North Central United States, Alaska and Hawaii – S. Sahu, D. Pedersen, E. Ostlund and B. Schmitt

Pathology of an Exotic Newcastle Disease Outbreak in Game Chickens – R. Crespo, H. Shivaprasad, P. Woolcock, R. Nordhausen and R. Chin



## EXHIBITS AND POSTERS SCHEDULED IN SAN DIEGO . . .

Exhibits and the AAVLD Poster Session will be open on Saturday (1 p.m. - 5:00 p.m.), Sunday (8 a.m. -5:30 p.m.) and Monday (8 a.m. - 11 a.m.), October 9-11, in the California/Golden West Rooms of the Town & Country Resort Hotel, San Diego, California.

Please take time to join our exhibitors and benefit from the information available on new products, techniques and procedures.

Following is a list of those planning to participate as of July 14. A complete "Exhibit Directory" will be distributed at the meeting.

### Advanced Technology Corporation

79 N. Franklin Turnpike, Suite 103, Ramsey, NJ 07446

VETSTAR Animal Disease Diagnostic System (VADDS) is a Windows based comprehensive laboratory information system for animal diagnostic labs. Unlike other LIMS systems, VADDS is FULLY DEVELOPED, currently runs many labs, and provides solutions TODAY...as well as in the FUTURE. VADDS currently is the only system that provides customized case reporting where users design their own case reports and inquiries. VADDS includes auto results faxing, interfaces to word processors or instruments, case coordinator processing, image capture, client access via the WEB, customized worksheets, complete financial accounting, and support for multiple lab site processing. VADDS supports the diagnostic coding systems offered by SNOMED, the University of Guelph or your own database. A complete audit trail is maintained of all transactions, and extensive statistical reporting is supported, as well as retrospective searches of lab results. VADDS is fully integrated with the VETSTAR accounting modules. These include General ledger, Accounts Payable, Inventory and Purchase Order. VADDS runs on most popular computers using Windows 95, Windows NT, Unix and Open VMS.

### Becton Dickinson Microbiology Systems

7 Loveton Circle, Sparks, MD 21152

### Biolog, Inc.

3938 Trust Way, Hayward, CA 94545

Biolog manufactures and sells microbial identification systems. Our MicroLog<sup>ä</sup> Microbial Identification System's organism databases include many significant veterinary pathogens and can be customized and expanded by the user. Biolog introduced the MicroLog/Micronaut<sup>ä</sup> Microbial Identification/Antimicrobial Sensitivity Testing System at last year's AAVLD meeting. This year we are introducing our new Windows compatible software and organism databases with over 1,400 species of bacteria and yeast, including anaerobic organisms. Come by and see the instrument that is sure to set the standard for ID/AST in the veterinary field. For more information, stop by our booth or contact us at 510/785-2564 or [www.biolog.com](http://www.biolog.com).

### CDC Technologies, Inc.

One Great Hill Rd., Oxford, CT 06478

CDC Technologies manufactures a series of high-resolution automated instruments specifically designed for multispecies hematology testing.

### Diagnostic Chemicals Limited

16 McCarville St., Charlottetown, PE, Canada C1E 2A6

## EXHIBITS AND POSTERS CONT'D...

### IDEXX Laboratories, Inc.

One Idexx Dr., Westbrook, ME 04092

The Production Animal Services (PAS) Division of IDEXX Laboratories, Inc. develops, manufactures and sells over 40 different ELISA, DNA Probe, CITE, and PCFIA-based detection systems for animal health and quality assurance applications. Laboratories around the world use PAS products for the detection and control of diseases affecting poultry and livestock, and our xChek data management software simplifies and organizes test results. For more information, please contact us at (800) 548-9997 or (207) 856-0890.

### Kirkegaard & Perry Laboratories, Inc.

2 Cessna Ct., Gaithersburg, MD 20879

### Medical Chemical Corporation

19430 Van Ness Ave., Torrance, CA 90501

Medical Chemical Corporation manufactures a complete line of laboratory stains and reagents as well as parasitology transports, QC organisms, QC slides, EIA, latex and immunofluorescent diagnostic test kits.

### Saikin Kagaku Institute Co., Ltd.

5-12 Hayama-Cho, AOBA-KU, Sendai, JAPAN 981-0917

### Synbiotics Corporation

4444 N. Belleview #207, Kansas City, MO 64116

Synbiotics has launched several new diagnostics since our last meeting. Several more are expected in the next few months. Please come see what will help you better serve the veterinary profession in the months ahead.

### Viral Antigens, Inc.

5171 Wilfong Rd., Memphis, TN 38134

Viral Antigens, Inc., manufactures manual and semi-automated test kits for detection of Pseudorabies Virus Antibodies in Swine Serum. These tests are licensed and designated as official tests by the USDA. Both test formats offer high sensitivity and specificity. The semi-automated Autolex PRV assay offers convenience and cost savings for high volume laboratories. Our management and technical staff will be available to discuss your specific requirements for Pseudorabies Antibody detection.

### VLIMS

600 Morningside Dr., Columbia, MO 65201

VLIMS is a digital management tool for veterinary diagnostic laboratories. Designed around low-cost common computer components, and uncomplicated data management procedures, it is an entry point for digital management for a diagnostic laboratory. VLIMS is a database and computer interface system running on MS DOS/Windows compatible machines and networks. It was originally designed to meet the management needs of a mid-sized diagnostic laboratory, and has since branched out to encompass the needs of many state, university and commercial veterinary diagnostic labs. Please stop by our booth and see the newest offering from the VLIMS team: VLIMS32 - the 32-bit Windows/SQL upgrade to Vet-LIMS.

### Waste Reduction by Waste Reduction, Inc. (WR<sup>2</sup>)

5711 W. Minnesota St., Indianapolis, IN 46241

WR<sup>2</sup> provides the Tissue Digester to eliminate tissue, carcasses, pathologic waste, and other hazardous waste as an alternative to incineration.

## Saturday Histopathology Slide Seminar

October 9, 1999, 6:30- 9:00 pm. Town and Country Room

Short, interesting, and educational cases presented in an informal setting. Presentations should be no more than 5 minutes in length. A copy of abstracts will be available at the seminar. Please limit abstracts to no more than one single-spaced page in length. Case submission abstracts should be accompanied by a block of tissue so that slide sets can be prepared in advance of the meeting.

**DUE DATE for Abstracts: August 15, 1999**

Submit abstracts to:

Dr. R. Gayman Helman  
Oklahoma Animal Disease Diagnostic Lab  
Oklahoma State University  
Stillwater, OK 74078  
Phone: 405-744-6623  
Fax: 405-744-8612  
E mail: ghelman@okway.okstate.edu

or

Dr. Pam Parnell  
Clemson Veterinary Diagnostic Center  
PO Box 102406  
Columbia, SC 29224-2406  
Ph: 803-788-2260  
Fax: 803-788-8058  
Email: pprnll@clemson.edu

Please send your abstract via mail, FAX or as an E mail attachment to either chairperson. Format: MS Word 6.0 or WordPerfect 5.1(DOS), 6.0, c.1. If sending by mail, include hard copy and a 3.5" disk in one of indicated formats. Authors will be notified of presentations accepted by September 1, 1999. If there are multiple authors, please underline the individual who will be giving the presentation.

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## Serology Quality Assurance Symposium

Thursday, October 7, 1999, 3:00 - 6:30 pm, Le Pavillon -- East Tower, Town and Country Hotel  
Hosted by IDEXX Laboratories, Inc.

Topics of this 3.5 hour symposium will address quality control and quality assurance programs, documentation, protocols, data entry, equipment standardization and calibration, etc.; ISO 9000 and what it takes, OIE function and standards, and industry quality award programs. Handouts included.

Speakers will include: Belinda Lawler-Goff, PhD, Quality Consulting, Ames, IA; Sharon Hietala, PhD, CA Veterinary Diagnostic Laboratory, Davis, CA; Sandy Rodgers, IDEXX Laboratories, Inc., Westbrook, Maine; Ann Wieggers, DVM, QA Manager, National Veterinary Services Laboratory, Center for Veterinary Biologics, Ames, IA; Peter Wright, PhD, National Centre for Foreign Animal Disease, Manitoba Canada representing OIE; Jim Evermann, MS, PhD, Washington State University-ADDL, Pullman WA; AAVLD Accreditation Committee Member and others.

**Separate registration of \$35.00 is required. Enrollment is limited to 40.** To register for Serology workshop send check made out to AAVLD (outside US remit by draft on US bank or international postal money order) or credit card payment (Mastercharge/ Visa) to: IDEXX Laboratories, Inc., Attn: Sandy Rodgers, One Idexx Drive, Westbrook, ME 04092 OR by email: sandy-rodgers@idexx.com FAX: 800-328-5461 or PHONE: 800-328-9997

Name: \_\_\_\_\_ Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_ Zipcode: \_\_\_\_\_  
Phone: \_\_\_\_\_ FAX: \_\_\_\_\_  
Email: \_\_\_\_\_  
For payment by: MC \_\_\_\_ VISA \_\_\_\_ Card # \_\_\_\_\_  
Expiration date: \_\_\_\_\_ Signature: \_\_\_\_\_

# AAVLD Mycology Workshop, San Diego, CA

Thursday, October 7, 1999, 10:00 am - 4:00 pm, Forum/Senate Rooms of the Town & Country Resort

## Keynote Speaker: Dr. Michael Dykstra, Ph.D.

Director of Electron Microscopy, Department of Microbiology, Pathology, and Parasitology, North Carolina State University

## Program Outline – “Fungal Diseases and the Laboratory Diagnostician”

- Dr. Dykstra - Part 1: How do we work with and identify fungal pathogens and contaminants: \*The role of fungi, \*Major groupings of fungal diseases of animals, \*Diagnostic features of fungal and fungal-like groups for differential diagnosis, \*Isolation techniques, \*The fear of fungi in the lab
- Dr. Dykstra - Part 2: Some specific clinical problems of note: \*Canine pythiosis, \*Diseases in the emerging area of aquaculture, \*Aspergillosis, air sampling, and the overall health of indoor air, \**Lecythyphora mutabilis*, \*Anti-fungal therapy and mode of action.
- Part 3: Dermatophytes – presented by Joyce Stringfellow of Auburn University - \*Clinical presentations, \*Differentials, \*Culture techniques, \*Gross and microscopic morphology, \*Susceptibility testing
- Part 4: Case reviews and group discussions – moderated by Carol Maddox
- Handouts, coffee, lunch, and wine and cheese following session will be provided as part of the registration fee (\$75.00)

Send check made out to AAVLD (outside US remit by draft on US bank or international postal money order) or credit card payment (Mastercharge/ Visa) to:

**AAVLD Mycology Workshop, c/o Dr. Carol Maddox,**  
**Animal Diagnostic Laboratory, Orchard Road, University Park, PA 16802**  
**Phone: 1-814-863-1984 or FAX: 1-814- 865-3907 or E-mail: CWM5@psu.edu or**

**Complete and return registration form with payment as soon as possible. Limited to 30 participants on a first come first serve basis by September 7<sup>th</sup>, 1999.**

Name: \_\_\_\_\_ Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_ Phone: \_\_\_\_\_  
FAX: \_\_\_\_\_ Email: \_\_\_\_\_  
For payment by: MC \_\_\_ VISA \_\_\_ Card # \_\_\_\_\_ Expiration date: \_\_\_\_\_  
Signature: \_\_\_\_\_

## Diagnostic Bacteriology/Mycology Case Report Discussion

Friday, October 8, 1999 7:30 to 10:00 pm. Senate Room

Come and join an interesting and informative discussion group. We need your case presentations in order to make this gathering as successful as it has been over the past few years. All presentations are very informal - yours will be very welcome! Please send your presentation title to: Melissa Libal at mlibal@tamu.edu by **August 15**.

**Bench level microbiologists interested** in forming a Far Western Chapter of **Association of Veterinary Microbiologists (AVM)** to include WA, OR, CA, AZ, NM, CO, UT, TX, WY, MT and ID contact Spencer Jang at ssjang@ucdavis.edu or ph: 530-752-9445.

# COMPARATIVE HISTOPATHOLOGY OF THE TRANSMISSIBLE SPONGIFORM ENCEPHALOPATHIES WORKSHOP

Thursday, October 7, 1999, 8:00am - 12:00 pm, California Room of the Town & Country Resort

The California Veterinary Diagnostic Laboratory System and USDA, Emergency Programs are pleased to sponsor this workshop on comparative pathology of the TSE's for the pathologist. This workshop is offered to improve surveillance of the transmissible spongiform encephalopathies.

## Presenters:

- \* Linda Detwiler, USDA, APHIS, Veterinary Services, Emergency Programs
- \* G.A.H. Wells, Central Veterinary Laboratory, United Kingdom
- \* Elizabeth Williams, University of Wyoming, Wyoming State Veterinary Laboratory
- \* Mark Hall, USDA, APHIS, National Veterinary Services Laboratory
- \* Allen Jenny, USDA, APHIS, National Veterinary Services Laboratory

8:00 am	Overview of TSE's - Dr. Detwiler
8:30 am	Comparative Histopathology of TSE's Found in Great Britain - Dr. Wells
10:00 am	Break
10:30 am	Comparative Histopathology of TSE's Found in Great Britain - Dr. Wells
11:30 am	Hands-on Histopathological Review of Representative TSEs from Great Britain and the U.S. and Selected Differentials - Drs. Wells, Jenny, Hall, Williams

Registration is limited to 50 participants, on a first come-first served basis. Please contact Dr. Leslie Woods at ph: 530-752-8700 or email: lwoods@cvdls.ucdavis.edu to register.

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## JOHNE'S CULTURE TECHNIQUES WORKSHOP

Thursday, October 7, 1999 8:00 am- 5:00 pm, Council/Chamber room, San Diego

Discussion of culture techniques, media and proficiency survey results from voluntary *M. paratuberculosis* fecal proficiency survey administered via Dr. Whitlock (Independent of the NVSL Fecal Check Test).

The one-day workshop will include a combination of short presentations to be followed by discussions and summaries of results obtained from processing the submitted samples. Specific topics will include:

- A. Media preparation, components, cost and sources, quality control techniques, pH, sterility, growth, formulation tubes, sources, costs, etc use of tissue culture flasks
- B. Culture technique, sample size, centrifugation, speed (G-force), time, double incubation, use of amphotericin, antibiotic brew use & misuse, amount to transfer, media tube inoculation issues, volume per tube, time to dry tube, incubator variables: (dryness & humidity level), transfer pipettes: types, time in BHI & antibiotic brew, scheduling over a week, number of samples/week/technician
- C. Quality control for the culture technique, use of known positive standards for colony counts
- D. Saving residual inoculum for "re-sets"
- E. Reading cultures, reading times: weekly, biweekly, monthly or twice

A fee will be charged for individuals from labs which did not participate in the voluntary proficiency testing. For further information contact Dr. Robert Whitlock at 610-444-5800

# HOUSE OF DELEGATES

STATE	DELEGATE	ALTERNATE
Alabama	Fred Hoerr	Open
Alaska	Open	Open
Arizona	Robert Glock	Carlos Reggiardo
Arkansas	Paul Norris	C. Swinderski
California	Arthur Bickford	Pat Blanchard
Colorado	Barbara Powers	Jim Collins
Connecticut	Herb Whiteley	Sandy Bushmich
Delaware	H. W. Towers	Open
Florida	Michael Slayter	Thomas Keefe
Georgia	Charles Baldwin	Cathy A. Brown
Hawaii	Thomas Sawa	Open
Idaho	Kendal Eyre	Jim England
Illinois	John Andrews	Douglas Hoefling
Indiana	Leon Thacker	Bill VanAlstine
Iowa	Gary Osweiler	Bruce Janke
Kansas	George Kennedy	Open
Kentucky	Lenn Harrison	M. Douglas Cox
Louisiana	Michael Groves	Rudy Bauer
Maine	Open	Open
Maryland	Jimmy C. M. Huang	James P. David
Massachusetts	Steve Rowell	Open
Michigan	Willie Reed	Thomas P. Mullaney
Minnesota	Jim E. Collins	Rod Frank
Mississippi	Open	Open
Missouri	Harvey Gosser	Margaret (Peg) Miller
Montana	Bill Layton	Larry Stackhouse
Nebraska	Dave Steffen	Jack Schmitz
Nevada	Alan G. Bosomworth	Cindy Farman
New Hampshire	Joseph Moore	Open
New Jersey	Robert Eisner	Open
New Mexico	Gregory P. Jillson	Richard G. LaRock
New York	Donald H. Lein	Sang J. Shin
North Carolina	JoAnna Quinn	Gene Erickson
North Dakota	Neil Dyer	Mary Moen
Ohio	Bev Byrum	R. D. Glauer
Oklahoma	W. C. Edwards	Gayman Helman
Oregon	Jerry Heidel	Stanley Snyder
Pennsylvania	H. Graham Purchase	Robert H. Poppenga
South Carolina	Joseph E. Hill	Pamela Parnell
South Dakota	David Zeman	Darrell Johnson
Tennessee	Ron Wilson	Tom Chang
Texas	Konrad Eugster	Robert Sprowls
Utah	M. Keven Jackson	E. Jane Kelly
Vermont	Open	Open
Virginia	Bruce L. Akey	Open
Washington	James Evermann	Open

STATE	DELEGATE	ALTERNATE
West Virginia	Open	Open
Wisconsin	Mark Carlson	Scott O. Jones
Wyoming	Frank Galey	Ken Mills
Alberta	W. D . G. Yates	Open
British Columbia	Open	Open
Manitoba	Open	Open
New Brunswick	Open	Open
Newfoundland	Hugh Whitney	Open
Nova Scotia	Lyn Ferns	Open
Prince Edward Is	Open	Open
Ontario	Grant Maxie	Nonie Smart
Quebec	Jocelyne Dagenais	Open
Saskatchewan	Open	Open
Mexico	Open	Open
Puerto Rico	Open	Open
NSVL	Art Davis	Tom Bunn
USAHA	Dick McCapes	Bob Hillman

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*October 11, 1999:* Chicago, Illinois

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# COMMITTEE AGENDAS

## **AAVLD-APHIS Emergency Disease Liaison Comm**

October 10, 4:00-5:00 pm, Esquire Room  
To be announced

## **AAVLD Foundation**

October 8, 6:00 - 8:00 pm, Committee Room. Chair Gavin Meerdink

1. Review and adoption of funding request procedures
2. Review of items for fund acquisition promotion
3. Protocol for Foundation Board review and approval process

## **AAVLD Program committee**

October 7, 7:00-8:30 pm, Cabinet Room. Chair Bruce Akey

1. Evaluation of 1999 AAVLD scientific program
2. Discussion of 2000 AAVLD scientific program
3. Long range issues for AAVLD scientific program

## **Administrative Management Personnel Committee**

Chair Pauledetta King

*Friday, October 8, 9:00 a.m.* Leave Town & Country Hotel to tour San Bernardino, CA Laboratory. Transportation will be arranged. Meet in the hotel lobby at 9:00 a.m. We will return by mid-afternoon for those who want to attend the Informatics meeting

*Saturday, October 9, 1:00-5:00 pm, Cabinet Room*

1. Approval of minutes from 41<sup>st</sup> Annual Meeting in Minneapolis, MN
2. Report on World Meeting held in College Station, Texas – Ralph Cobb
3. Update from each Lab represented on changes, etc. - Group
4. Financial reporting at the Diagnostic Lab in Lexington, KY – Teresa Thompson
5. Preparing for ISO25 Certification/SOP's – Pauledetta King
6. General comments and discussion

*Sunday, October 10, 8:30 am - Noon, Senate Room*

1. Electronic Tour and computer update from the Breathitt Veterinary Center – Owen Schroeder
2. Round table discussion of how each lab handles various situations - Group Bring Items for discussion
3. New Chair to be selected at 2000 meeting.
4. Agenda items for 2000 meeting
5. Other

## **Anaerobic Infections subcommittee**

October 8, 10:00- Noon, Forum Room. Chair Glen Songer

1. Opening remarks - Glenn Songer
2. Spirochete taxonomy update - Gerald Duhamel
3. *Clostridium perfringens* enteritis and enterotoxemia update - Carol Maddox, Glenn Songer
4. Experience with *Clostridium difficile* in animals  
Companion animals - Spencer Jang  
Swine - Karen Post  
Minimum standards for establishment of a diagnosis - Robert Carman
5. Planning of a survey on anaerobic methodology
6. Other new business

## **USAHA/AAVLD Animal Health Information Systems**

October 9, 8:00 am- Noon, Town and Country Room. Co-chairs Francois Elvinger and Bruce Akey

1. The National Animal Health Reporting System, Progress Review
2. Benefits of Improved Livestock Identification Systems in Animal Health Reporting Systems
3. Antimicrobial susceptibility, food safety, zoonotic disease and other public health related data from veterinary diagnostic laboratories.
4. Electronic transfer of diagnostic laboratory data.

## **Antimicrobial Susceptibility Testing subcommittee**

October 8, 1:00- 3:00 pm, Committee Room. Co-chairs Ching Ching Wu and David White

1. Update on NCCLS VAST meeting and the status and revisions of M31-A
2. Full MIC panel and feedback from users
3. Report on AVMA Judicious Antimicrobial Subcommittee proposal
4. Surveillance network--should or could vet diagnostic lab use it?
5. Division Z in ASM
6. Round Table

## **USAHA/AAVLD Aquaculture committee**

October 9, 9:00 am - Noon, Garden South Room, co-chairs Skip Jack and Randy White

1. Update USDA-APHIS aquaculture activities
2. Emerging and foreign animal diseases
3. Accreditation status
4. Regional Reports
5. Other



# COMMITTEE AGENDAS

## Bacteriology Steering Committee

October 9, 8:00-10:00 pm, Senate Room. Co-chairs Lorraine Hoffman and Mitsi Libal

1. Subcommittee reports
  - a. Subcommittee on Bacteriology, Mycology and Mycoplasmaology, Carol Maddox
  - b. Subcommittee on Anaerobic Infections, Glenn Songer
  - c. Subcommittee on Antimicrobial Susceptibility Testing, C. C Wu and David White
  - d. Subcommittee on Mycobacteriology, Charles Thoen
2. Review goals of subcommittees.
3. Updates from accreditation and executive committees on quality control guidelines.
4. Mycology workshop report and future workshops
5. Update on WEB site and other computer issues
6. Report from AVMA committee on antimicrobial use.
7. Additional concerns

## Bacteriology, Mycology & Mycoplasmaology subcte.

October 8, 8:00 - 10:00 am, California Room. Chair Carol Maddox

1. Highlights of Mycology Workshop
2. BacT-Check Test  
Test Shipping  
Format  
Results
3. Shipping Infectious Materials
4. Late breaking report – To Be Announced
5. ASM – New Division “Z”
6. Other items of concern
7. New Business

## Bluetongue virus Committee

October 9, 7:30-10:00 pm, Council/Chamber Room. Chair Jim MacLachlan

7:30-7:40	Welcome	Jim MacLachlan
7:40-8:00	OIE conclusions	Jim MacLachlan
8:00-8:30	Overview of PCR Diagnostics	Bill Wilson
8:30-9:00	Interaction of BTV and insects	Brad Mullens
9:00-9:15	NVSL Report	Bev Schmitt
9:15-9:45	Pending	
9:45-10:15	Future of AAVLD and USAHA comm.	Jim MacLachlan

## Enteric diseases

October 9, 8:00-10:00 am, Council Room. Chair Gerald Duhamel

- 8:00 – 8:15:** Laboratory tests used in Johne’s disease diagnosis. Dr. Janet B. Payeur, National Veterinary Service Laboratory
- 8:15 – 8:30:** Follow up on severe acute hemorrhagic and necrotizing enteritis associated with *Clostridium perfringens* in adult cattle. Dr. Carol W. Maddox, Animal Diagnostic Laboratory, Pennsylvania State University
- 8:30 – 8:45:** Update on clinical findings in horses with *Clostridium difficile*. Dr. Magnesian and Spencer Jang, University of California-Davis
- 8:45 – 9:00:** *Salmonella typhimurium* DT104 infection in swine in Ohio. Dr. Brenda C. Love, Animal Disease Diagnostic Laboratory, Ohio Department of Agriculture
- 9:00 – 9:15:** Diagnosis and importance of *Helicobacter* species in enteric diseases of animals. Dr. Mark D. Schrenzel, Comparative Pathology, Massachusetts Institute of Technology
- 9:15 – 9:30:** Update on identification of pathogenic *Brachyspira* (formerly *Serpulina*) species by PCR. Dr. Gerald E. Duhamel, Department of Veterinary & Biomedical Sciences, University of Nebraska-Lincoln
- 9:30 – 9:45:** Bovine coronavirus antigen detection by ELISA. Dr. Melisse M. Gray, Veterinary Diagnostic Center, University of Nebraska-Lincoln

## Epidemiology and Economics committee

October 10, 4:00-6:00 pm, Room TBA. Co-chairs Jack Schmitz and Susan Turnquist  
To be announced

## Informatics

October 8, 3:00- 5:00 pm, Chamber Room. Chair Jim Kruse

- Call to Order  
Approval of 1998 Minutes  
Group Briefing on Attendees LIMS System  
Achievements in the Standards area in 1998 - Dr. James Case  
VisuaLab - Laboratory Information management for the next millennium - Dr. Craig Carter.

# COMMITTEE AGENDAS

## Laboratory Directors committee

October 9, 8:00-10:00 pm, Garden South Room. Co-chairs Leon Thacker and Alex Ardans

1. International certification
2. Bioterrorism— Dr. Bert Mitchell, Center for Veterinary Medicine, FDA
3. Other topics to be announced

## Laboratory Safety and Waste Disposal

October 9, 8:00 am - Noon, Committee Room. Chair Larry Thompson

### Biological Waste Disposal:

1. Introduction and Committee Background
2. Explanation of WR2 System (alkaline hydrolysis) for disposal of pathological waste. Dr. Gordon Kaye, Albany Medical Center, New York.
3. Regulatory Changes
4. Member Laboratory Concerns

### Laboratory Safety:

1. Introduction and Background
2. Member Laboratory Updates
3. CDC Select Agent Registration Program
4. Proposed DOT shipping regulations
5. Other Safety Concerns
6. Updating of AAVLD Safety Manual

## Long Range Planning Committee

October 8, 10:00 am - Noon, Senate Room. Chair Willie Reed

1. Do we need to expand the scientific program? Provide a home for Epidemiology, Companion Animal & Exotic Animal Testing, Endocrinology, and Clinical Pathology?
2. Funding of the Foundation
  - a. How to improve giving
  - b. Outside interest?- Corporate?- Private?
  - c. Increase funds' base
3. Increase Regional Meeting Support
  - a. Technical Training & Interaction
  - b. Regional Programs
4. Is there a need for the AAVLD to develop a strategic plan?
5. Is the current structure of the AAVLD adequate to support the goals & objectives of the organization?

## Membership committee

October 9, 11:00 am- Noon, Chamber Room. Co-chairs Jim Evermann and Dave Zeman

1. Report from David Zeman on membership dues deadlines, meeting registration/dues items, and update on 1999 membership
2. Report from Jim Evermann on old business from 1998, welcome letter to new (and old) members, role of committee for 1999-2000
3. Report from Long Range Planning Committee on membership issues discussed at 1998 meeting, and future plans for AAVLD
4. New business/discussion items from members and guests

## Mycobacteriology subcommittee

October 9, 10:00 am - Noon, Garden North Room. Chair Charles Thoen

1. Search for mycobacterial antigen in tissues of patients with Crohn's disease. NF Cheville, J Ellingson, JC Cheville, CO Thoen
2. Production of PPD using *M. avium ss paratuberculosis* strain 19698. B Martin, CO Thoen, NF Cheville
3. John's survey in Iowa. J Thomson, S Robbie, M Pence
4. Experimental transmission of *M. bovis* in deer. M Palmer, D Whipple
5. Evaluation of some diagnostic tests in control of John's disease in bison. D Hunter
6. Improved recovery of *M. avium ss paratuberculosis* from tissues using a C<sub>18</sub> carboxypropylbetaine processing method. J Ellingson, C Thornton, K MacLellan, J Stabel, C Carothers, S Passen.

## Mycotoxin Committee

October 9, 3:00-5:00 pm, Chamber Room. Chair George Rottinghaus

1. Mycotoxin problems in individual states for 1998.
2. Update on mycotoxin testing kits
3. Update on NCTR fumonisin study
4. Discussion concerning allowable fumonisin levels in animal feeds and are residues a problem? Center for Veterinary Medicine (FDA)

# COMMITTEE AGENDAS

## **Pathology Committee**

October 10, 5:15-6:30 pm Sunrise Room. Chair Dave Steffen

1. QA/QC implementation in diagnostic centers, report from the Accreditation Committee on what labs are doing and expectations for accreditation.
  2. Nominate new committee chair for 2000-2002
  3. Select Co-chair for Histopathology Slide Conference
  4. Discuss this year's format for slide conference.
  5. contact Dr. Steffen if you have any other agenda items.
- As meeting overlaps with reception at 5:30 it will begin promptly at 5:15!

## **Publications Committee**

October 9, 8:00-10:00 am, Chamber Room. Chair Gavin Meerdink

1. Journal:
  - collaboration of AAVLD and CAB International
2. Manuscripts/Monographs
  - submittal process
  - changes because of the website
3. Newsletter
  - 1999 expense update
  - email notification lists
  - Newsletter information distribution to visitor site vs secured site (eg., job listings, meeting announcements, Foundation donors, etc)
  - suggestions and improvements
4. Website
  - transition of website chair from Dr. J. Thomson to Dr. G. Osweiler
  - review of format
  - policy question discussion

## **Serology Committee**

October 8, 3:00- 6:00 pm, San Diego Room. Chair Sharon Hietala

- 1) Commercial Reagent/Product and Technical Updates
  - VMRD
  - Synbiotics
  - KPL
  - Idexx
  - Diachemix
- 2) National Veterinary Services Laboratory Updates
  - Checktests (1998/99 results, prioritization, survey results)
  - 1998/99 NVSL diagnostic activities, new reagents/ tests
- 3) Serology Committee Business
  - Interpretive Serology Summaries - report
  - Guide to Unique Tests - report
  - QA/QC and Minimum Standards for serology labs - report and discussion
  - Discussion topic: Request received for a subcommittee on sero-epidemiology/diagnostic epidemiology for interpretation of serology results.

\*There are no formal presentations scheduled, though there will be short information presentations scheduled within the sub-committee reports.

## **Veterinary Analytical Toxicology Advisory Committee**

October 9, 7:30-8:30 pm, Sheffield Room. Chair Anant Jain  
To be announced

## **USAHA/AAVLD Environmental residues and Veterinary Analytical Toxicology**

October 9, 8:30- 10:00 pm, Sheffield Room

## **Virology committee**

October 8, Noon - 3:00 pm, San Diego Room. Chair Ed Dubovi

Each presentation will be ~15 minutes.

1. Malignant catarrhal fever -3 presentations
2. Circoviruses - 3 presentations
3. Swine influenza— 2 presentations
4. Update on animal morbilliviruses - 2 presentations
5. If time permits: brief updates on some diagnostic procedures.

# Executive Board Meeting Minutes

**JULY 10, 1999, Hilton Hotel, New Orleans, Louisiana**

**CALL TO ORDER:** The meeting was called to order by President Doris Miller at 1:05pm

**ATTENDEES:** Art Bickford, David Zeman, Doris Miller, Frank Galey, John Kreeger, Gary Osweiler, Bruce Akey, Lenn Harrison, Steven Rowell, Terry McElwain

**GUEST:** Karla Thomfohrde - Microbiology Reference Laboratory, Pharmaceutical Services – Gave a presentation on collecting antibiotic sensitivity data. Her company is investigating whether or not to move into the veterinary realm by keeping databases of veterinary antibiotic sensitivity. MRL collects data from clinical micro labs and creates a data source for : 1. Surveillance of antibiotic resistance trends 2. Detection of new mechanisms of resistance 3. Support for clinical and basic research 4. Education of physicians and researchers. They use clinical labs as data sources because they are international, etc. They hope their mass of data will identify new problem areas faster than regular surveillance efforts at individual sites. Their services provide access to participating users through the internet and at no cost to the participating units. MRL'S info technology staff works with participating sites to set up interfacing.

MRLS funding is self-generated through pharmaceutical lab and diagnostic kit manufacturing and by selling limited access to the database to pharmaceutical companies. They also do custom in-vitro studies and provide consultation services.

Discussion among the board members followed the presentation. There was consensus that the veterinary diagnostic labs need to develop a national database and the MRL may be a way to get it started at no cost. Another advantage to using an organization like MRL is that they are protected from the Freedom of Information Act and could be an important buffer in protecting patient confidentiality. It was also suggested that since MRL does not currently have a great deal of veterinary expertise, AAVLD could serve as a consultant during the setup process. Dr. Akey volunteered to look into MRL further and Dr. Osweiler will look into getting someone from the Antimicrobial Subcommittee to help him. Dr. Miller said she would also get a volunteer from the Accreditation Committee to look into MRL. Dr. Zeman volunteered the South Dakota lab as a possible pilot site in the future.

**APPROVAL OF MINUTES:** Approval of the Minutes of the Las Vegas, NV meeting, February 17, 1999 was moved, (Zeman) seconded (Rowell) and passed.

**TREASURER'S REPORT:** Art Bickford

## **AAVLD Report of the Treasurer January 1, 1999 – June 30, 1999**

Checking Account Balance On Hand January 1, 1999:		\$100,329.32	
Total Receipts:	\$52,639.66		
Total Expenses:	\$79,705.25		
<b>Ending Balance June 30, 1999:</b>			<b>\$73,263.73</b>
Certificates of Deposit as of <b>June 30, 1999</b>			
CD# 000418518		\$13,157.08	
CD# 000475591		\$12,772.70	
<b>Total, Certificates of Deposit</b>			<b>\$25,929.78</b>
Mutual Fund, Edward D. Jones, as of <b>June 30, 1999</b>			
Account # 182504125	Income Fund of America (Foundation asset)	\$45,260.52	
Account # 190876276	New Perspective Fund	\$73,248.10	
Account # 165939129	Investment Co. Of Amer.	\$74,219.28	
<b>Total, Mutual Funds</b>			<b>\$192,727.90</b>
<b>Total Assets on Hand - June 30, 1999</b>			<b>\$291,928.41</b>
<b>Total paid active members as of 06/30/99: 1075</b>			
<b>Total paid subscribers as of 06/30/99: 198</b>			

Dr. Bickford reported that updated copies of "Officer Responsibilities" were distributed to all current officers. Updates need to be made on a more regular basis in the future. In addition, historical financial trends for the organization (1957-1998) were previously distributed to all board members.

An updated membership roster was distributed to all board members. It will be included in the next issue of the newsletter. We are currently at 1075 members and it was agreed that increasing that number is a worthy objective for the future. The 1999 directory had a few errors- all corrections will also be printed in the next newsletter.

Comprehensive data was collected on the Foundation Accounts. Because donations are tax-deductible, donors must be properly notified and proper records must be kept by AAVLD. A process has been implemented to notify people at the end of the calendar year for all donations made during that year.

AAVLD needs to devise an approach to appeal for corporate funding for the Foundation, journal, etc. A small committee was put together at the last executive board but no action has been taken. Hope to have some activity in the near future. A sample letter was prepared to solicit organizations and vendors.

A financial review has been prepared by our CPA to double-check that procedures are being properly followed. The review should be completed soon and results will be presented at the October Board meeting.

Dr. Bickford participated with the officers of AAVLD in a planning session with USAHA to discuss the future of the joint USAHA/AAVLD annual meeting. Efforts will continue as no major changes can be implemented until at least the 2001 meeting but USAHA did seem receptive to input from AAVLD.

Dr. Bickford announced the opening of a new veterinary school in Pomona, CA. There is also another school opening up in Grenada.

There was a great deal of discussion regarding changes to dues procedures for 2000. In order to align with Journal deadlines and ensure the directory is mailed in a timely manner the following policies were agreed on:

- 1) Dues will be due on November 1, 1999 for 2000 membership.
- 2) Any dues received after November 1, 1999 will be assessed a \$10 late fee
- 3) Members will be purged from the rolls of the association and dropped from the directory if payment has not been received by January 1, 2000.
- 4) NO BACK ISSUES of JVDI will be provided to members who pay after November 1, 1999. The journal starts with the next issue to be sent the day after a member's check clears and continues on through v. 12, n. 6. The Journal is now available in PDF format so anyone who misses back issues can be emailed a copy that they can print out themselves.

Dr. Andrews (chair, Constitution and Bylaws) will be contacted by Dr. Zeman to assess whether or not bylaws changes will have to be proposed and voted on by the House of Delegates.

Executive Board members agreed that AAVLD members MUST be given a heads-up notice to alert them to these procedural changes. Notice will go out on cover of next newsletter and first dues statement will go out with ballots in August.

Subscribers will now be on a rolling basis. Their subscription will begin the day after their check clears and continue for a total of 6 issues. Subscribers who claim they didn't receive their copies will be handled by providing a PDF format of the issue to those with email.

#### **PRESIDENT'S REPORT- Doris Miller**

Dr. Miller reported that since the last board meeting, AAVLD Executive Board members had attended the LCI meeting as a possible site for the winter board meeting if we do not meet with the USAHA Government Relations Committee in February. The WAVLD meeting in TX in June was very successful. A conference on bioterrorism will be held in Atlanta in August. Dr. Miller will represent AAVLD and attend.

The AAVLD has been recognized as a member of the newly established AVMA Advisory panel to the House of Delegates and they are eager to have AAVLD participation. AAVLD does not have a vote but will now have a mechanism for providing input to the AVMA and Reference Committee participation. Dr. Miller represented AAVLD this year on the panel.

#### **COMMITTEE REPORTS**

##### **JVDI- John Kreeger:**

The journal has recently had personnel problems: the administrative assistant in Columbia, MO, left and the Allen Press account manager who dealt with JVDI was fired.

There were 69 manuscripts in 1998 and there will be 96 in 1999. The acceptance rate in 1998 was 64% and in 1999 is 56% (because of increase in submissions, JVDI can be more selective in what is printed). Turn around time has increased from 55 days in 1998 to 70 days in 1999. Dr. Kreeger expressed concern at this increase as slow turn-around could discourage people from submitting and compromise the integrity of the Journal.

CAB international is interested in publishing an electronic version of JVDI. Dr. Kreeger distributed their proposal which would give CAB the rights to JVDI and would give AAVLD members access to a database with other Journals. Dr. Kreeger doesn't feel that at this time the ~\$20,000 fee provides enough benefit to AAVLD to make CAB's proposal worthwhile; should AAVLD decide to cease printing hard copies of the journal in the future, a service such as CAB may be a good way to go. Other members concurred.

With the loss of key personnel at Columbia and Allen Press, Dr. Kreeger requested approval from the Executive Board to fund a full-time position housed at the University of Missouri, Columbia who would be responsible for providing editorial assistance for the Journal. Estimated cost between \$22,500-24,500. He will investigate how the position could be affiliated through UM-Columbia and what the specific responsibilities would be, including soliciting patrons, advertisements and generating additional revenue. Dr. Harrison agreed that the editor needs someone working closely with him, and that half-time is not enough; however, he suggested that there are other areas within the association that a journal employee could provide assistance. There was consensus for support of Dr. Kreeger's request but concerns over funding. It was agreed a \$50 submission fee for manuscripts would discourage authors from submitting and increasing revenue from additional page charges was also deemed unreliable. It was agreed that Dr. Kreeger would come up with a complete job description by the next board meeting and that the board would try to come up with administrative duties that could be added to the job description to provide AAVLD support. This agenda item will be continued at the November meeting.

#### **Program Committee Report – Bruce Akey**

Dr. Akey expressed concern that meeting attendees may not have enough time between committee meetings and scientific sessions to attend the poster sessions. He suggested reducing the number of presentations at one of the scientific sessions and extending the break from 30 to 45 minutes; poster presenters would be asked to stand with their poster during that time. All committee members agreed. Dr. Akey will contact Donna Dare to discuss the set-up of the posters as committee members felt it was beneficial to have them in the front of the room so that participants had to walk by them to get to the refreshment area.

So far there are 6 graduate student papers and 2 posters. Dr. Akey suggested changing the program so that all of the graduate student presentations are in one session to make it easy for judges to attend. There was considerable discussion regarding the pros and cons of having a "graduate student" session. It was agreed that they would be in the first plenary session (half of the session would be a "mini-theme" and the other half would be graduate presentations) so they would be highlighted.

Other program issues:

- \* Some of the presentations submitted for the annual meeting were ones that were presented at WAVLD. It was decided that the presentations would be allowed, but that from a credibility standpoint a note indicating that it had been previously presented would be printed on the abstract.
- \* The epidemiology session will be a combined session with avian papers.
- \* There was discussion regarding the May 1 deadline. Though it is seldom recognized, the committee decided to keep it, as pushing it back may encourage people to turn in their abstracts even later. The abstracts need to be received early so that the program can be published in the newsletter and people can make travel arrangements accordingly.

Dr. Zeman presented a proposal for the 2000 meeting program. He suggested an opening plenary session that focused on the future of diagnostics. The committee agreed that the proposal was a good idea and encouraged Dr. Zeman to continue planning. Dr. Akey suggested there might be an opportunity to overlap the session with USAHA to attract both sets of members.

#### **Canada Report – Handout from Bill Yates**

##### **1. Membership on the AAVLD Executive Board**

The Constitution of the AAVLD allows for two Canadian representatives on the Executive Board. The Canadian Food Inspection Agency (CFIA) is the organization that includes Canada's national veterinary laboratories, as well as the laboratories that support inspection of food, fish, and plants. The "Canada, Federal" position on the Board is filled by the official responsible for CFIA's animal health diagnostic services, or their designate, which is the position that Dr. Yates currently occupies.

Two years ago, it was decided to add to the Board a position termed "Canada, Provincial", in order to provide input more in parallel with the federal (National Veterinary Services Laboratories) and state/university representation to AAVLD from within the US. The "Canada, Provincial" position is currently vacant, and Dr. Yates was asked at the last Board meeting to cover the provincial role temporarily and to identify one or more nominees for election. Dr. Yates reported that Dr. Grant Maxie has agreed to do this. Dr. Maxie is the Director of the AAVLD-accredited laboratory complex in Guelph, Ontario; was for many years the Editor of the Canadian Veterinary Journal and Chair of the Canadian Veterinary Medical Association's Editorial Committee that oversees both the CVJ and the Canadian Journal of Veterinary Research; and is a contributing author to Jubb, Kennedy, and Palmer's textbook on Pathology of Domestic Animals.

## 2. Official opening of Canada's Foreign Animal Disease Laboratory

The ceremony to officially open the Winnipeg laboratory was held on 11 June 1999. The laboratory complex, shared with Health Canada, is known as the Canadian Science Centre for Human and Animal Health and was featured in a recent issue of the AAVLD Newsletter. The total cost of the complex was 172M (Cdn) and it will have a staff of approximately 246, working in facilities that include biocontainment for animal and laboratory bench work up to and including Level 4. The laboratory includes Canada's Centre of Expertise for Foreign Animal Disease, which is managed by Dr. Norm Willis as Executive Director.

## 3. Surveillance

Fiscal year 1998-99 marked the first full year of the Canadian Animal Health Network (CAHNet), which is a collaborative venture of the veterinary and agri-business infrastructure and is designed to protect and document Canada's animal health status in support of market access under the World Trade Organization agreement. It is led and supported by CFIA's Animal Disease Surveillance Unit under the direction of Dr. John Kellar. Communication methods include the CAHNet Bulletin, which is now mailed to all US State Veterinarians, and a website that can be found at [www.CAHNet.org](http://www.CAHNet.org).

The sixth national bovine serological survey is underway, which will include bluetongue and anaplasmosis status and augment Canada's multi-species serum bank begun in 1978. A collaborative study was begun with partners from research, private practice, the provinces, and industry to determine the economic impact of four indigenous diseases (BVD, Johne's, EBL, *Neospora*) on dairy production.

The Animal Disease Surveillance Unit is also the CFIA's interface with industry on animal identification, and link with the OIE on this subject. The cattle industry plans to have mandatory identification in place by 31 December 2000, and the leaders of other sectors are also moving ahead.

## Newsletter Report – Handout from Pat Blanchard

1. January newsletter was 40 pages, 1200 copies printed. Print cost was 3285.79. Mail cost was 829.51. April issue was 24 pages, 1200 copies printed. Print cost was 2488.87. Personnel cost for formatting and preparation was 325.00. Mail cost was 568.29. Printing costs have considerably increased over last year. The 1998 spring issue of 16 pages, 900 copies cost 1277.00 to print.
2. In order to notify members of the availability of the newsletter on the web page, two email distribution lists have been constructed. One is for members who have requested a hard copy and the other is for members who will only use the web site. Of 1066 members we have 906 e-mail addresses. Initial use of the list resulted in 10-12% undeliverable mail. Researching and correcting wrong addresses reduced undeliverables to ~2%—most due to host not available.
3. All members with an email address on our list in May and who had not indicated that they wanted to receive a hard copy were notified with the April newsletter email notice that they would not receive a hard copy unless we heard otherwise.
4. All members who had undeliverable email or did not have an email and had not responded whether they wanted a hard copy were sent a letter on May 18<sup>th</sup> asking them to let us know by July 1 if they would like to access the web site or get a hard copy. Fifty-three of the 139 people who received letters have responded.
5. To date, 165 members have requested a hard copy. 5 new members (joined after May 18) did not indicate their preference. If the board would like us to continue to send a hard copy to all those that have not responded to the May 18 letter (86 to date), the total number of hard copy issues we will need to print will be 256. These will be done double sided at a commercial quick copy service and will be sent first class mail (~1.00/issue to mail a 40 page issue). A number of the people requesting hard copy are overseas members and we have always used regular first class mail rates rather than nonprofit organization rates for them.

Expect next issue to be available on the web page by August 10.

### **Membership Report- Handout from David Zeman**

The total number of members as of 12/31/98 was 1,034 and as of 6/30/99 AAVLD had 1,075 so were continuing to attract new members. Two dues statements were sent for 1999 membership and a massive one-on-one phone and fax campaign to retain previous members was run from March through June. 1075 members includes: 96 new members, 25 who had dropped membership in 1996, 1997 and 1998 but joined again in 1999 and 27 who were previous members but who had dropped in 1998.

Dr. Bickford stated that he is going to try to recruit from the poultry labs as they have traditionally had low member numbers.

### **Credentials Report- Handout from Dr. Zeman**

The delegate list is almost complete and Dr. Zeman is still making calls to fill open slots.

### **Nominations Report- Handout from Dr. Snyder**

Nominations for this year's elections are almost ready. Nominations committee had a question regarding whether AAVLD had a limit on how many Life Member awards they could be given in one year. The Executive Board agreed that there is no formal policy. The awards committee could nominate as many individuals as it saw fit. If too many people are being nominated in the future, the board will reexamine the procedure and make necessary changes.

### **Foundation Report- Handout from Dr. Meerdink**

A process for review of requests to the Foundation should be formalized. Guidelines are being devised for requests and suggestions to the Foundation Board (or committee) for their review and vote. These would include specific monetary request, amount, duration of the funding and a justification.

Suggestions have been made to recognize contributions to the Foundation with some gratuity. A lapel pin has been used as an example that would be given to the donor for some specified level of contribution. Opinions will be solicited on this issue and if positive, possible items and cost will be investigated prior to the final decision. Input from the AAVLD Executive Board on this is sought.

The Foundation, of course, needs more funds before it can provide significant contributions to the Association. It is at the critical juncture where it needs to spend some money (from limited funds) on significant project and promotional items before additional significant contributions are received. Suggestions are welcomed.

Discussion ensued: Everyone supported the idea of a pin or other form of gratuity. Dr. Galey suggested that one reason for limited donations may be that potential donors don't know what the foundation does. He suggested that something needs to be done with the money that can be used as a promotional tool to solicit more donations. The Board agreed to ask Dr. Meerdink for a list of goals from the foundation so that it can be marketed more aggressively.

## **OLD BUSINESS**

### **USAHA/AAVLD Annual Meeting Planning – Doris Miller**

USAHA wants to cut back from 40 to 38 committees. They are interested in preventing overlap with AAVLD and would like to see more joint committees. Dr. Akey said that USAHA seems more willing to include AAVLD in program planning, though few changes could be made before 2001. AAVLD cannot really make changes until USAHA decides what they are going to do. USAHA would like to make the meeting one, possible two days shorter. If AAVLD meetings follow USAHA, they may be able to do more joint committees and a joint scientific session.

Dr. Miller stated that the executive board needs more input on how committees and members would be affected and asked board members to let her know how they would like to be presented with suggested changes. Dr. Akey reported that Dr. Dick McCapes was putting together a formal outline that he will present at the October meeting.

Dr. Akey addressed the issue of whether or not AAVLD needs a representative to do site visits for the annual meeting. It was agreed that at this time the planning that Donna Dare does is very necessary and will continue as long as she is interested and can provide this service and a suggestion was made to groom someone to fill her shoes should she ever choose not to continue her work with AAVLD. (Suggestion that this might be a job for the editorial assistant proposal).



Patrons/Exhibitor Updates

Dr. Miller reminded everyone to solicit patrons and exhibitors for the annual meeting.

**OTHER BUSINESS:**

**AAVLD Display.** The AAVLD display was not set up by Saturday morning of the AVMA meeting. It was suggested that in the future the President or other designated person check with Jim England to see if he could act as coordinator for the display to ensure personnel are arranged for setup, staffing, dismantling and shipment of the exhibit.

**NEW BUSINESS:**

**AAVLD Web site**

John Thompson has moved and stepped down as web editor. Dr. Osweiler volunteered to serve as web editor. Dr. Osweiler solicited suggestions for improvement in the future. Everyone agreed to keep the web site at Iowa State.

Dr. Akey suggested putting the program on the web site. Agreement all around.

**Bioterrorism- Gary Osweiler**

The FBI is interested in having an electronic rolodex of what diagnostic labs can perform testing that may be of interest to them for reasons of bioterrorism. NVSL is involved on the foreign animal disease side and thought it might work well to have AAVLD sanction resources for the diagnostic labs. Iowa State volunteered to coordinate a list of what tests are performed at individual labs. The next step needs to be assurance that all labs that perform the tests meet minimal QC standards. Dr. Akey reported that the DX Monitor has a database that holds all tests that labs perform and that it might be useful with a bit of updating.

**Salary Review: Lenn Harrison**

Dr. Harrison stated that the accreditation committee has identified some organizations that have outdated salaries for faculty and staff in the diagnostic labs. He proposed that AAVLD gather base information regarding salaries that will subsequently be updated every couple of years through a survey to the labs. Collective information could be provided to Universities and other organizations when they are addressing their current salary scales. Cost-of-living indexes will also be addressed. Dr. Harrison volunteered to head the collection effort and the board agreed.

Dr. Miller brought up a question concerning combining the AAVLD and USAHA Bluetongue Committees. The Board agreed with the Bluetongue Committee chair's suggestion to proceed with this additional combined committee.

Dr. Miller brought up a request by several members concerning a possible AAVLD statement regarding interlab/interagency pathology slide consultations. After much discussion the Board agreed that each individual laboratory should set their own policy and requirements but the Pathology Committee may want to develop general suggestions or guidelines.

**Fall meeting**

The next Executive Board Meeting will be held at the Town and Country Hotel in San Diego on Friday, October 8, 1-5PM.

**MEETING ADJOURNED at 5:25 by President Miller**

Respectfully submitted

Arthur A. Bickford, Secretary-Treasurer

# National Veterinary Services Laboratories News

## **Dr. Jim Pearson Retires as Director of NVSL**

After 38 years of Federal service, Dr. Jim Pearson, Director of the National Veterinary Services Laboratories, retired on July 3. Dr. Pearson and his wife Patricia will be leaving the Ames area for Paris, France, where he will take on the challenge of a 2-year position as Head of the Scientific and Technical Department of the Office of International Epizootics beginning August 10. He will be missed, and we wish them all the best!

-Lynn Lynch, Secretary to the Director, NVSL

## **H3N2 Swine Influenza Virus Infection in the United States**

In August 1998, pigs in North Carolina developed typical swine influenza disease despite vaccination with a commercial H1N1 SIV vaccine. The disease was reportedly severe with abortion and deaths occurring in sows. An SIV isolate submitted to the Diagnostic Virology Laboratory (DVL) at the National Veterinary Services Laboratories was typed as H3N2 swine influenza virus. In November 1998, tissues received from febrile (105-107 F) market age pigs in Texas yielded swine influenza virus H3N2 from the lung. Since the first report in August 1998, H3N2 swine influenza virus has been identified from samples submitted to the DVL from North Carolina, Texas, Iowa, Illinois, and Minnesota. Since October 1, 1998, the DVL has typed 96 SIV samples as H3N2, 65 samples as H1N1, and two samples as a mixed infection of H1N1 and H3N2. The H1N1 and H3N2 swine influenza viruses differ antigenically. The FA conjugate and HI antigens are directed against H1 influenza antigen. There will be cross-reaction, but a weaker reaction is expected against the current H3 influenza virus, than with the homologous type.

-Dr. Sabrina Swenson, Diagnostic Virology Laboratory

## **Chronic Wasting Disease (CWD) Surveillance**

With increasing interest in elk farming and mounting concern over interspecies transmissibility of the transmissible spongiform encephalopathies (TSE), CWD surveillance of deer and elk at the National Veterinary Services Laboratories (NVSL) has become a vital part the overall plan for dealing with this disease.

In fiscal year (FY) 1998, hunter-kill cervid surveys were done in Nebraska, South Dakota, and New Jersey with a total of 1,050 animals examined for CWD. None were found positive by routine histopathology or immunohistochemistry. A total of 265 farmed cervids from 11 states and a province in Canada were examined for CWD in FY 1998. Thirty-four of these animals were positive for CWD (31 from South Dakota, 1 from Nebraska, 1 from Oklahoma, 1 from Canada).

In FY 1999, 1,262 hunter-killed cervids from Kansas, Nebraska, South Dakota, and Michigan have been received as of June 28, 1999. Results are incomplete, but no positives have been found thus far. Of the farmed cervids received, 25 of a total of 221 tested have been positive so far. Twenty-four positives were from South Dakota, and 1 from Nebraska. Future surveillance in hunter-killed animals is in conceptual or planning stages for other states, including Oklahoma, Montana, and Utah.

-Dr. A. J. Davis, Pathobiology Laboratory

## **Mycobacterial Infection in Captive Elephants**

*Mycobacterium tuberculosis* was isolated from 12 captive elephants from 4 different parts of the United States over the past 5 years. DNA fingerprint comparison by IS6110 and TBN12 typing has identified 5 different strains of *M. tuberculosis*. Testing of a limited number of trunk washes using a nucleic acid amplification test approved for human sputum (Gen Probe MTD test) has resulted in 2 positive tests on elephants where *M. tuberculosis* was isolated and 14 positive tests in elephants where mycobacteria were not isolated. MTD positive, culture negative animals are called suspects with reculture of animals at a later date. This group is not considered positive by the REAC Elephant Guidelines. USDA Animal Care regulations require annual culture of all captive elephants by licensed exhibitors in an effort to prevent future zoonotic outbreaks like the one which occurred in Illinois in 1996.

-Dr. Janet Payeur, Diagnostic Bacteriology Laboratory

### **Proficiency Tests Provided by NVSL**

The National Veterinary Services Laboratories (NVSL) is expanding its role in the effort to standardize diagnostic testing. In addition to the proficiency tests required for animal movement, the NVSL has made several tests available on a voluntary basis. The Diagnostic Bacteriology Laboratory (DBL) recently shipped the third annual proficiency test for bacterial isolation, identification, and antimicrobial susceptibility testing to 57 laboratories. The proficiency test is provided at the request of the AAVLD Subcommittee on Bacteriology, Mycology, and Mycoplasmaology. Participation in the testing program has shown a slight increase each year it has been offered. In August, the DBL plans to ship the first proficiency test for the isolation and identification of *Salmonella enteritidis* from drag swabs and liquid eggs. This test is being provided to assess the culturing abilities of laboratories participating in the National Poultry Improvement Plan.

The DBL continues to offer yearly proficiency testing for Johne's disease fecal cultures and serology. These check tests were provided at the request of the USAHA National Johne's Working Group. Forty-nine laboratories received the fecal culture check test in May. The serology check tests for ELISA and complement fixation were sent in July. The production and distribution of check tests to help assess and standardize diagnostic testing procedures is an essential role of the NVSL. The AAVLD and USAHA have been beneficial in helping to prioritize these efforts.

-Dr. Thomas Bunn, Diagnostic Bacteriology Laboratory

### **Proficiency Panels (BL/EIA/BT) Administered by NVSL**

The 1999 proficiency panel for bovine leukosis (BL) was distributed to the 62 approved BL laboratories in March of 1999. All but 4 laboratories successfully completed the panel on the first attempt. Of the laboratories that failed on first attempt, 1 passed on the second, 1 has voluntarily dropped BL approved status, and 2 are pending a second attempt.

The 1999 proficiency panels for equine infectious anemia (EIA) and bluetongue (BT) were distributed in May of 1999. A total of 323 laboratories are participating in the EIA proficiency panel while 57 laboratories are participating in the BT panel. Scoring of proficiency test results for these two panels is underway, and results will be returned by mid-July.

-Dr. Eileen Ostlund, Diagnostic Virology Laboratory

### **New Head of Equine and Ovine Viruses Section, NVSL**

Dr. Eileen Ostlund, D.V.M., Ph.D., has joined the staff of the National Veterinary Services Laboratories (NVSL) in the capacity of Head of the Equine and Ovine Viruses Section in the Diagnostic Virology Laboratory (DVL). Dr. Ostlund comes to the NVSL from the University of Missouri-Columbia Veterinary Medical Diagnostic Laboratory. She subsequently was a research assistant in the Equine Virology Unit, Animal Health Trust, Newmarket, England, and a postdoctoral fellow in the Laboratory of Infectious Diseases at the National Institutes of Health, Bethesda, Maryland. Prior to her graduate and university positions, Dr. Ostlund was an equine practitioner in Crown Point, Indiana.

-Dr. Bev Schmitt, Diagnostic Virology Laboratory

### **New QA Manager, NVSL/CVB-L**

Dr. Ann Wieggers has been selected for the position of Quality Assurance Manager for the National Veterinary Services Laboratories and the Center for Veterinary Biologics-Laboratory. Although she is a U.S. citizen, for the past 10 years Dr. Wieggers has served as laboratory quality manager and, most recently, as Chief, Quality Assurance, Laboratories Directorate, Canadian Food Inspection Agency (CFIA). Prior to her previous duties, she was Chief of a Brucellosis Unit and held positions as a veterinary surgeon, veterinary diagnostic laboratory technician, and analytical chemist.

-Dr. Jim Pearson, Director, NVSL

# Membership Update

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## Membership Directory Corrections

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### AVMA LIAISON PROGRAM

Don Lein, 1999

### BACTERIOLOGY STEERING

Lorraine Hoffman, 2000, Melissa Libal, 2001, co-chairs  
Carol Maddox                      David White  
Glenn Songer                      CC Wu  
Charles Thoen

### SUBCOMMITTEE ON ANAEROBIC INFECTIONS

Glenn Songer, Chair, 2001                      Carol Maddox  
Tom Besser                                      Patrick McDonough  
Mike Donahue                                  Valerie Patten  
Gerald Duhamel                                Karen Post  
Bill Fales                                        Sarah Salmon  
Beth Henricson                                Shri Singh  
Lorraine Hoffman                              Richard Walker  
Spencer Jang                                  Robert Walker  
Sonia Lingsweiler                             David White  
Brenda Love                                    CC Wu

### DR. ARTHUR BICKFORD:

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### SUBCOMMITTEE ON ANTIMICROBIAL SUSCEPTIBILITY TESTING

CC Wu, 2000, David White, 2000, co-chairs  
MMC Chengappa                              Karen Post  
Mike Donahue                                Russell Raleigh  
Bill Fales                                        Sara Salmon  
Lorraine Hoffman                              Richard Walker  
Spencer Jang                                  Robert Walker  
Carol Maddox                                Ronald Welsh  
Patrick McDonough                            David White  
Valerie Patten                                CC Wu

“Enteric diseases of swine” should read “**Enteric Diseases**”

## QUALITY CORNER - Dr. Belinda Lawler Goff WORKSHEETS

**They can support you, they can save you...**

If you have been following the suggestions made in the previous Quality Corner columns, by now you have completed your lab review, any indicated improvements have already been addressed, and you have written (or updated) your standard operating procedures. A next step in fine-tuning the system is worksheets. Developing worksheets, sometimes from your SOPs, can improve efficiency and documentation. They can provide proof of your good work and an excellent paper trail - you never know when you may need it!

What is a "worksheet"? Lots of examples in a diagnostic lab. Most obvious is the submission form - what would you do without it? I am sure various labs have a little different format, and that each lab has improved their submission form over the years. The bottom line is that it captures vital information in an organized and efficient manner. Your clients can usually just "check" off the test(s) that they want performed, may even have pre-printed their name/address/phone and other standard information, and can provide you with the necessary information with a minimum amount of handwritten input.

You may also have some sort of chain-of-custody form for tracking the journey of a sample through various sections of the lab. After all, you need a good way to get all of that information back together to get a final report out.

Another type of worksheet may be used by lab technicians to record Quality Control information regarding a particular assay, such as the lot numbers and expiration dates of reagents used to run a particular assay. An additional example of an assay-related worksheet is a plate map, which is a list that details where controls and samples were placed on an ELISA plate. This type of information can be particularly useful if the case becomes a "legal" case - you can demonstrate in court that the assay was valid (reagents/controls) and that sample tracking and identification systems were in place.

Column #2 of Quality Corner outlined some questions regarding sample handling documentation and a system of documentation/reporting of work done and data observed. A brief review:

*Sample handling documentation (logs, sample identity):*

- i. Is condition of samples noted upon their arrival? (e.g., are frozen samples thawed?)
- ii. Are samples maintained in appropriate condition/temperature upon arrival until use?  
Follow samples from arrival to storage or use. How long do they sit, where and under what conditions?  
Is this recorded?
- iii. What types of chain-of-custody records do you have?

*System of Documentation and Reporting of Work Done and Data Observed*

All records and data should be attributable (signed/initialed, and dated), original, accurate and objective, contemporaneous (recorded when they occur/are observed), and legible.

- i. Have any errors or problems occurred because you couldn't trace who did a procedure or when it was done; because it was recorded from memory long after the observation, or it was simply illegible?
- ii. Does your documentation system allow for sample tracking and correct interpretation of test results?

Keep those points in mind when developing worksheets. Use your judgement regarding worksheet development - you don't need them for absolutely everything you do. Think about where mistakes, sample loss or misplacement, inefficiency occur, as well as where "proofs" are vital. The bottom line for worksheets is efficiency.

I know that many of you have already designed some great worksheets, and I would like to see them. It would be helpful for me, in my continuing work with AAVLD, to see some examples of your "worksheets". Please mail/email examples to: Dr. Belinda S. Goff, 3359 Stage Coach Road, Ames, IA 50010 - email: bsgoff@aol.com

## POSITION ANNOUNCEMENTS

### DIAGNOSTIC MICROBIOLOGIST

The Laboratory of Veterinary Diagnostic Medicine and the Department of Veterinary Pathobiology in the College of Veterinary Medicine at the University of Illinois at Urbana-Champaign, invite applications and nominations for the position of Diagnostic Microbiologist. This is a regular, full-time position based on a 12 month appointment. Academic rank, salary, and tenure-or nontenure-track status are negotiable and commensurate with experience, qualifications and career goals. Applicants must have the DVM (or equivalent) and/or PhD, a sincere commitment to service-oriented diagnostic microbiology and an interest and background to develop and implement molecular detection assays. Duties of the position include: (1) provision of diagnostic microbiology service to practicing veterinarians and their clientele, (2) supervision of the diagnostic microbiology laboratory, (3) collaborative or independent research and scholarly contributions in the areas of infectious diseases or food safety and (4) microbiology instruction in the veterinary professional curriculum. Selection criteria will include: experience in diagnostic veterinary microbiology with a molecular biology emphasis, advanced degrees, excellent communication skills, ability to interact with veterinary practitioners and clinical and research faculty, and potential to complement existing faculty expertise. Starting date: on or about November 15, 1999. For full consideration applications, curriculum vitae, a letter summarizing career aspirations, and names of three references must be received by **October 15, 1999**. Submit applications to: Dr. Gail Scherba, Laboratory of Veterinary Diagnostic Medicine, 2001 South Lincoln, Urbana, IL 61802 (217)333-1620. Applicants may be interviewed before closing date however, no hiring decision will be made until after that date.

### VETERINARY PATHOLOGIST - POULTRY SPECIALIST

The Department of Veterinary Pathology, Western College of Veterinary Medicine, University of Saskatchewan invites applications for a tenure-track faculty position for a veterinary pathologist and poultry specialist. Six-12 months of specialist training in poultry for an otherwise qualified pathologist is negotiable as part of this position. Employment will begin on 1 July 2000; the training period could precede this date. Applicants must have DVM and PhD degrees, or equivalents, be competent diagnostic pathologists, and possess a thorough understanding of poultry diseases and medicine, and of commercial poultry production in North America. The duties of the position include direction of a veterinary extension service to the poultry industry, teaching undergraduate and graduate students, participation in diagnostic services in anatomical pathology, and research relevant to poultry. Appointment will be made at the Assistant or Associate Professor level. Applications are invited from qualified individuals regardless of their immigration status in Canada. Applications will be received until **1 September 1999**. Send complete CV, letter of application explaining background and career goals, names of at least three professional references and direct all inquiries to: Gary A. Wobeser, Chair, Search Committee, Department of Veterinary Pathology, University of Saskatchewan, 52 Campus Drive, Saskatoon, SK. S7N 5B4 Canada. Telephone : 306-966-7280; FAX: 306-966-7439.

### VETERINARY PATHOLOGIST

The Florida Department of Agriculture and Consumer Services, Division of Animal Industry, Bureau of Diagnostic Laboratories, invites applications for the full-time position of Diagnostic Veterinarian Manager (Position 01058), to act as diagnostic veterinarian and Chief of the comparative pathology section at the Animal Diagnostic Laboratory, Kissimmee, Florida. Annual salary range is \$44,903.04 to \$76,784.24. Duties include examination and reporting results of histopathology, on a weekly rotational basis, responsibility for the receipt of incoming samples and performing necropsies. Qualified candidates must possess as a minimum: Eligibility for licensure as a veterinarian by the State of Florida in accordance with Florida Statute 474, a master's degree or completion of two years of preceptorship, internship, etc. in microbiology, bacteriology, virology, pathology or parasitology and three years of professional veterinary experience in virology, bacteriology, parasitology, histopathology, clinical pathology or avian diseases. Applicants must submit a completed State of Florida Employment Application by **Aug 30, 1999**, to Dr. M.V. Slayter, (407) 846-5200, at 2700 North Bermuda Avenue, Kissimmee, Fl., 34741.

## **ANATOMIC PATHOLOGISTS**

The Pathology department at the Faculty of Veterinary Science, University of Pretoria, South Africa is looking for several new members of staff. Case load consists of approximately 1500 biopsies and 1500 post-mortems/year: mostly companion animal from the Faculty referral center, with about 30-40% production animals, wildlife and avian cases. Both permanent or temporary positions available. Require some experience in anatomical pathology. Duties are equally split between diagnostic work and teaching. Interested persons can contact the Head of the Dept, Professor van der Lugt on [jvdlugt@op1.up.ac.za](mailto:jvdlugt@op1.up.ac.za)

## **DIAGNOSTIC PATHOLOGIST**

Faculty position in the California Veterinary Diagnostic Laboratory System and appropriate department, School of Veterinary Medicine, University of California, Davis. Position is located at the California Veterinary Diagnostic Laboratory facility in San Bernardino, California. Salary and rank dependent on qualifications. DVM or equivalent degree, with advanced training in anatomic pathology required. Board certification by the American College of Veterinary Pathologists preferred. Ph.D. degree in veterinary pathology or related field desirable. Demonstrated interest, aptitude, and capability in mammalian and avian diagnostic pathology, disease investigation and experience in diagnostic interpretation of test results are required. Must possess excellent interpersonal and written and oral communication skills and demonstrated ability to work with others in a collegial team atmosphere. Responsibilities in addition to diagnostic service work include creative use of diagnostic case material including publication of results, clinical and limited didactic teaching responsibilities to veterinary students, graduate students, and residents and University and public service through committees, professional organizations, continuing education, etc. Applications will be accepted through **November 1, 1999** or until a candidate is identified. Interested applicants should submit 1) a letter of intent outlining special interest in the position, overall related qualifications and experiences pertinent to the position, and career goals; 2) curriculum vitae; and 3) the names and addresses of three professional references to: Dr. Alex Ardans, Director, CVDL, School of Veterinary Medicine, University of California, Davis, CA 95616

## **VETERINARY PATHOLOGISTS**

The C. E. Kord Animal Disease Laboratory in Nashville, Tennessee is seeking applicants for two vacant positions in diagnostic veterinary pathology. Candidates should possess a D.V.M. or equivalent degree and have completed formal training (residency or graduate program) in anatomic pathology. Responsibilities of each position will include necropsy and microscopic examinations with coordination of ancillary laboratory testing to provide an accurate written report to laboratory clientele. Strong communication skills are required for consultation with veterinarians, animal owners, and coworkers. Additionally, one vacancy represents a newly created position that will provide expertise in field investigations along with in-house diagnostic laboratory support. Salary is commensurate with qualifications and experience. Interested individuals should send a letter of application including a statement of goals, a curriculum vitae, and names, addresses and phone numbers of three references to Dr. Ron Wilson, C. E. Kord Animal Disease Laboratory, P.O. Box 40627, Melrose Station, Nashville, Tennessee 37204. Phone #(615) 837-5125, (e-mail [rwilson@mail.state.tn.us](mailto:rwilson@mail.state.tn.us)). Position is open until filled.

## **VETERINARY TOXICOLOGIST**

Faculty position in the California Veterinary Diagnostic Laboratory System and Molecular Biosciences, School of Veterinary Medicine, University of California, Davis. Salary and rank commensurate with qualifications. DVM or equivalent degree with advanced training in toxicology, Ph.D. preferred. Board certification or eligibility by the American Board of Veterinary Toxicology required. Demonstrated interest, aptitude, and capability in veterinary diagnostic toxicology, mammalian and avian disease investigation and experience in diagnostic interpretation of test results required. Must possess excellent interpersonal and communication skills and a demonstrated ability to work with others in a collegial team atmosphere. Responsibilities include clinical and limited didactic teaching responsibilities to veterinary students, graduate students, and residents; creative use of diagnostic case material including publication of results in appropriate journals and University and public service through committee work, professional organizations, continuing education, etc. Applications will be accepted through **September 15, 1999**, or until a candidate is identified. Interested applicants should submit 1) a letter of intent outlining special interest in the position, overall related qualifications and experiences pertinent to the position, and career goals; 2) curriculum vitae; and 3) the names and addresses of three professional references to: Dr. Alex Ardans, Director, California Veterinary Diagnostic Laboratory System, School of Veterinary Medicine, University of California, Davis, CA 95616



## **DIRECTOR OF DIAGNOSTIC SERVICES**

The College of Veterinary Medicine, Kansas State University is seeking applicants for the position of Director of the Diagnostic Laboratory in the Department of Diagnostic Medicine/Pathobiology. Responsibilities: The Director of the Diagnostic Laboratory will coordinate and integrate all service components in the Department of Diagnostic Medicine/Pathobiology including anatomic pathology, clinical pathology, bacteriology, virology, serology, toxicology, immunology, parasitology and molecular diagnostics. The Director will be responsible for the continuing development and implementation of quality assurance and standard operating procedures to insure consistent quality of diagnostic testing; take responsibility for the oversight of the laboratory information management systems; and represent the Department of Diagnostic Medicine/Pathobiology at regional, state, and international meetings of groups or specialties directly related to the operation and functioning of diagnostic laboratories. The Director will work in close association with the Head of the Department of Diagnostic Medicine/Pathobiology to help integrate the goals of the Diagnostic Laboratory and Department. Qualifications: Applicants must hold a D.V.M. or equivalent degree, be a Diplomate of the American College of Veterinary Pathologists and have extensive experience in the area of diagnostic veterinary medicine. The applicant must have demonstrated evidence of administrative and strong communicative skills. The ideal candidate should have demonstrated successful experience in personnel management, team building and entrepreneurial leadership and have a vision of the future of veterinary diagnostic medicine. Salary will be competitive and commensurate with experience and qualifications. To apply: Send letter of application describing your interest, curriculum vitae, and the names and addresses of three references to: Dr. George A. Kennedy, Department of Diagnostic Medicine/Pathobiology, College of Veterinary Medicine, Kansas State University, Manhattan, Kansas 66506. Telephone: 785-532-5650. Deadline: Review of the applications will begin **October 1, 1999** and will continue until the position is filled.

## **SUPERVISOR SEROLOGY AND VIROLOGY**

The Diagnostic Laboratory of the Arkansas Livestock and Poultry Commission has an immediate opening for a supervisor in the section of Serology and Virology. Responsibilities of this position include a major effort toward providing diagnostic serology and virology, particularly PCR based detection of pathogens and mammalian cell culture techniques including propagation of viruses, and virus neutralization assays. The successful applicant will also assist in quality assurance of current procedures and the development of new diagnostic techniques. Experience in diagnostics is desirable. Qualifications include a PhD degree in a related discipline but candidates with the MS degree and a strong background in molecular biology or cell culture will be considered. Salary is negotiable depending upon the experience, training, and accomplishments of the candidate. Qualified individuals should submit a letter of application, recent curriculum vitae, and the names and addresses (e-mail preferred) of 3 references to: Dr. Paul Norris, One Natural Resources Drive, Little Rock, AR 72205. (501)907-2430. Email: paul.norris@mail.state.ar.us.

## **POSTDOCTORAL FELLOWSHIP IN MOLECULAR VIROLOGY**

Position to participate in cloning, sequencing and analysis of Rhadinoviruses associated with malignant catarrhal fever of cattle and bison. Qualifications include PhD and experience in molecular virology, preferably involving herpesviruses; experience in herpesvirus purification, pulsed field electrophoresis, genome walking and DNA cloning, and sequence analysis desirable. Open until filled. Send curriculum vitae, research interests, and names/addresses and telephone numbers of 3 references to: Dr. James DeMartini, Department of Pathology, Colorado State University, Fort Collins, CO 80523. Tel 970-491-5410, FAX 970-491-0603. E-Mail address: jcdemar@cvmb.colostate.edu.

## **POSTDOCTORAL POSITION IN MOLECULAR BIOLOGY**

Position available to work on the molecular biology of gene regulation of herpesviruses using Equine Herpesvirus 1 as the model. Laboratory has 9 researchers working on various aspects of herpesvirus gene regulation and pathogenesis. Contact: Dennis J. O'Callaghan, Ph.D. Willis-Knighton Chair of Molecular Biology, Professor and Head Department of Microbiology and Immunology, Louisiana State University Medical Center, 1501 Kings Highway, Shreveport, LA 71130-3932. Tel 318-675-5750, Fax 318-675-5664. Email: DOCALL@LSUMC.EDU

## **VETERINARY STUDENT EXTERNSHIPS IN PATHOLOGY**

The Davis Foundation for the Advancement of Veterinary Pathology is offering 1-2 month externships for veterinary students with an interest in pathology. For a list of the sponsoring sites in diagnostic, laboratory animal, and zoo pathology contact Dr. James Britt, Ark. Livestock and Poultry Commission, #1 Natural Resources Dr., Little Rock, AR 72205; (501) 225-5650; james.britt@mail.state.ar.us



**American Association of Veterinary Laboratory Diagnosticians, Inc.**

CVDLS, SVM, UC Davis  
PO Box 1522  
Turlock, CA 95381

**1999 MEMBERSHIP APPLICATION**

**American Association of Veterinary Laboratory Diagnosticians, Inc.**  
CVDLS, SVM, UC Davis, PO Box 1522, Turlock, CA 95381

The purpose of the American Association of Veterinary Laboratory Diagnosticians is the dissemination of information relating to the diagnosis of animal disease, the coordination of the diagnostic activities of regulatory, research and service laboratories, the establishment of uniform diagnostic techniques and the establishment of accepted guides for the improvement of diagnostic laboratory organizations relative to facilities, equipment and personnel qualifications. Any laboratory worker engaged in the field of disease diagnosis in animals or in allied fields involving teaching, research, commercial or regulatory functions is eligible for membership and is invited to join.

- Full Member \$50.00 Annual Membership Dues
- Graduate Student/Resident/Retired Member  
\$25.00 Annual Membership Dues
- Associate Membership for clerical and lab  
technical staff \$25.00 Annual Membership Dues\*

**Please remit in U.S. dollars. Members in Canada and outside the USA must remit by draft on a U.S. bank or by International Postal Money Order.**

Payment by MC/Visa is accepted.  
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MC       Visa

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Expiration Date \_\_\_\_\_  
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Please return the application below with your check or money order:

Name \_\_\_\_\_ Degrees \_\_\_\_\_

Institution/Lab \_\_\_\_\_

Business Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ Country \_\_\_\_\_

Officephone \_\_\_\_\_ Faxno. \_\_\_\_\_ Email \_\_\_\_\_

- Interest:  Bacteriology     Immunology     Virology     Pathology     Informatics  
 Epidemiology     Regulatory     Toxicology     Admin     Other \_\_\_\_\_