



NEWSLETTER

AMERICAN SOCIETY FOR VETERINARY CLINICAL PATHOLOGY

August 2003

Newsletter #3

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Important Dates

October 1, 2003	Case Review Slide Set Order Form Due
November 15, 2003	ASVCP Pre-meeting Workshop on Hepatotoxicity
November 15-19, 2003	Annual ASVCP/ACVP Meeting, Banff, Alberta, Canada
November 16, 2003	ASVCP Annual Business Meeting, Banff

President's Message: Professional Management of the ASVCP

Colleagues,

The American Society for Veterinary Clinical Pathology has grown from the original 13 members in 1965 into an organization of over 500 in 2003. Throughout the life of this organization we have relied on dedicated volunteers to serve the Society in many different ways. Last year, under the guidance of Eric Schultze, our current Past

President, the ad hoc committee for ASVCP Management Affairs (consisting of Eric, Don Meuten, Phyllis Fisher, Linda Werner and Ellen Evans) recommended we seek professional management services for some Society functions. Eric asked many representatives of other organizations about the transition from an all-volunteer organization to one with professional management. There was a constant message from many of those that Eric spoke to, "we should have done it sooner", since the employment of a management company helped each organization grow and develop. After extensive interviews with other organizations that employed management companies, it was decided to enter into negotiations with The Rees Group, Inc. to help with the management of ASVCP. In addition to excellent recommendations from several of their current clients, another reason for employing The Rees Group, Inc. is that they are the management company currently employed by the ACVP. Having the same management company will easily allow us to develop increased synergies between our two groups. We have actually already been working with The Rees Group, Inc. for the last two years at the joint ACVP/ASVCP annual meeting and have found them very accommodating in meeting the needs of the ASVCP.

We recently completed successful contract negotiations with the head of The Rees Group, Inc., Susan Rees. We identified a group of services that we thought the ASVCP could use help with and could afford, including national office administration, member services, annual meeting coordination, and corporate development. Although there are clearly some costs involved in hiring The Rees Group, Inc to perform these services, we feel the Society will greatly benefit financially and through improved membership services, making the investment worthwhile.

Susan Rees will serve as our Executive Director and we are in the process of transferring several of the membership service functions of the ASVCP to Susan and her staff. We will still be dependent on volunteers to support many of the functions of the Society. Those Executive Board and Committee members that will now have some of their duties performed by The Rees Group, Inc. will have more time for other functions, including long term planning for further growth and development of the Society.

The Executive Board members and I are excited about our new relationship with The Rees Group, Inc. and feel all members will gain tremendous benefits from this association.

William J. Reagan
President, ASVCP

ASVCP Election Results

Congratulations to the winners of the 2003 ASVCP election. Susan Tornquist (Oregon State University) is our President-elect, Sonjia Shelly (IDEXX) has been re-elected as Treasurer, and Christine S. Olver (Colorado State University) is our new First Year

Executive Board Member. Susan, Sonjia, and Christine will be installed at the annual business meeting of the ASVCP, to be held in Banff, Alberta, Canada in November.

38th ASVCP / 54th ACVP Annual Meeting
November 15-19, 2003
Banff, Alberta, Canada

Saturday, November 15, 2003

- 8 am-5 pm** **ASVCP Pre-meeting Workshop**
Hepatotoxicity Assessment for Investigative Toxicology and Drug Development
Chair: Vincent Meador
- 6 pm-8 pm** **Teaching Clinical Pathology**
Establishing Core Concepts in Clinical Pathology for Veterinary Students: Building Consensus Amongst the Educators
Moderators: Holly Bender and Leslie Sharkey

Sunday, November 16, 2003

ASVCP Education Symposium

Topic: Pancreas and Bone: Classic and Cutting-edge Biomarkers
Session Chair: Joanne B. Messick

- 8:00-8:05 am** Introduction and Announcements
- 8:05-9:45 am** What Are the Predictors and Diagnostic Biomarkers for Pancreatitis in the Dog and Cat and How Useful Are They?
David Williams, Vet MB, MA, PhD
- 9:45-10:15 am** Break
- 10:15 am-noon** Use and Limitations of Biomarkers of Bone Metabolism.
Matthew A. Allen, Vet MB, MA, PhD
- Noon-1:30 pm** Speaker/Trainee Reception (open to graduate students, residents, and ASVCP invited speakers)

ASVCP/ACVP Clinical Pathology Scientific Session I

Session Chair: Harold Tvedten

- 1:00-1:15 pm** Clinical Relevance of the World Health Organization Classification of Lymphoid Neoplasms in Dogs. Rose Raskin

- 1:15-1:30 pm** FIV Inter-subtype Recombination Creates Chimeric Variants of Epidemiological Importance in Ontario. Felipe Reggeti*
- 1:30-1:45 pm** The Molecular Basis for Glanzmann's thrombasthenia in a Quarterhorse. Peter Christopherson*
- 1:45-2:00 pm** Identification of Aberrant Expression of CD79A in Canine Lymphoma Samples by Flow Cytometry. Karen Dolce*
- 2:00-2:15 pm** Evaluation of Pancreas Specific Lipase Assay Utilizing the Substrate 1,2-O-dilauryl-rac-glycero-3-glutaric acid-6 methyl resurofin-ester (DGGR) for the Diagnosis of Canine Pancreatitis. Roberta Graca*
- 2:15-2:30 pm** Aptamer Selection for the O-polysaccharide of *E. coli* 1157. Timothy Snider*
- 2:30-2:45 pm** Culture and Characterization of Feline Dendritic Cells. Wendy Sprague*
- 2:45-3:00 pm** Validation of a Bayesian Network Created from Functional Mechanistic Explanations Embedded within SNOMED. Kurt Zimmerman*
- 3:00-3:30 pm** Refreshment Break / Visit Posters and Exhibits
- 3:30-4:30 pm** **Keynote presentation**
Development, Validation, and Usefulness of Trypsin-like Immunoreactivity (TLI) for Exocrine Pancreatic Insufficiency in the Dog and Cat: the Transition from BT-PABA to Fecal Elastase and TLI. David Williams, Vet MB, MA, PhD
- 4:30-4:45 pm** Comparison and Contrast of Atrial and Brain Natriuretic Peptides in Feline Hypertrophic Cardiomyopathy. Alexander Biondo
- 4:45-5:00 pm** Prevalence of *Ehrlichia canis* Infection in Thrombocytopenic Dogs from Rio de Janeiro, Brazil. Daniel Macieira

* Competitor for the ASVCP Young Investigator Award

Veterinary Laboratory Professionals

Session Chairs: Linda Vap and Dennis Olexson

- 1:30-2:30 pm** Reticulocyte Size and Hemoglobin Content for the CSU Department of MIP Diagnosis of Iron Deficiency: Current for Physicians, Future for Animals. Christine Olver
- 2:30-2:45 pm** Refreshment Break
- 2:45-3:45 pm** Continuation of Dr. Olver's presentation.
- 5:00-6:30 pm** **ASVCP ANNUAL BUSINESS MEETING**

Monday, November 17, 2003

8:00am-noon ACVP/ASVCP Joint Plenary Session: Pathology of Aging
Session Chair: Alec Gough

Noon-1:00 pm ACVP Clinical Pathology Examination Slide Review

Veterinary Laboratory Professionals

Session Chairs: Linda Vap and Dennis Olexson

8:00-8:30 am VLP Welcome and Announcements. Linda Vap, MT, DVM

8:30-9:30 am An Overview of Markers for Digestive Diseases, Part I
David A Williams, Vet MB, MA, PhD

9:30-10:30 am Refreshment Break

10:30-11:30 am An Overview of Markers for Digestive Diseases, Part II
David A. Williams, Vet MB, MA, PhD

11:30 am-1:30 pm Lunch Break

1:30-2:15 pm Roundtable 1: The Who, What and How of Determining Test
Prices. Nicole Rosen, MT, Purdue University VTH

2:15-3:15 pm Immunological and Molecular Methods to Aid in the Diagnosis of
Lymphoproliferative Disorders. Anne Avery, VMD, PhD, CSU Dept.
of MIP

3:15-3:45 pm Refreshment Break

3:45-4:30 pm Roundtable 2: Performance Reviews and Development. Dennis
Olexson, B. Sc. Art., Prince Edward Island CVM

4:30-5:00 pm Planning for 2004 Meeting

ASVCP/ACVP Clinical Pathology Scientific Session II

Session Chair: Harold Tvedten

1:00-1:15 pm Comparison of a Urine Dipstick Determination of Urine
Protein:Urine Creatinine Ratio with Calculated Urine
Protein:Creatinine Ratio from Automated Wet Chemistry
Instrument's Measurements. Elizabeth Welles

1:15-1:30 pm C-reactive Protein and Haptoglobin: Markers of Infection,
Inflammation, Hyperadrenocorticism and Stress in Dogs. David
Eckersall

- 1:30-3:00 pm** **Keynote Presentation**
 Biomarkers for Gastric and Intestinal Disorders and Their Potential
 Clinical Usefulness in the Dog and Cat
 David Williams, Vet MB, MA, PhD
- 3:00-3:30 pm** Refreshment Break / Visit Posters and Exhibits
- 3:30-3:45 pm** Use of the Advia 120 in Differentiating Extracellular from
 Intracellular Hemoglobin. Anne Barger
- 3:45-4:00 pm** Nucleated Red Blood Cells in Clinically Ill Dogs and Cats May
 Indicate Increased Risk of Mortality. Melissa Blauvelt
- 4:00-4:15 pm** Use of Alkaline Phosphatase Staining to Differentiate
 Osteosarcoma from Other Vimentin Positive Tumors. Anne Barger
- 4:15-4:30 pm** Feline Multiple Myeloma: a Review of 12 Cases (1996-2003). Pat
 McManus
- 5:00-6:30 pm** **ASVCP RECEPTION (members only)**

Tuesday, November 18, 2003

ACVP/ASVCP Concurrent Sessions

- 8:00 am-noon** ACVP/ASVCP Concurrent Session I: Emerging Diseases
8:00am-noon ACVP/ASVCP Concurrent Session II: Oxidative Stress and Tissue
 Injury
- 8:00am-noon** Mini-symposium: The Pathobiology of Plant Intoxications

Veterinary Laboratory Professionals

Session Chairs: Linda Vap and Dennis Olexson

- 8:00-8:15 am** Welcome and Announcements. Linda Vap, MT, DVM
8:30-9:30 am Comparison of Cell-Dyn 3500 and Advia 120 Hematology
 Analyzers. Jim Klaassen, DVM, PhD
- 9:30-10:00 am** Break
- 10:00-11:00 am** Comparison of Cell-Dyn 3500 and Advia 120 Hematology
 Analyzers, cont'd. Jim Klaassen, DVM, PhD
- 10:30-11:30 am** Roundtable 3: Coomb's Testing. Nancy Papenfuss, University of
 Minnesota VTH

ASVCP Case Review Session

1:00-5:00 pm Case Presentations
 Moderator: Judy Radin
 (Schedule available later)

Wednesday, November 19, 2003

ACVP/ASVCP Concurrent Sessions

8:00 am- 12 noon ACVP/ASVCP Concurrent Session III: Renal Pathology
8:00 am- 12 noon ACVP/ASVCP Concurrent Session IV: Atherosclerosis
8:00 am- 12 noon Mini-symposium: Pathology and Laboratory Informatics: The New Frontier

2003 “Teaching Clinical Pathology” Session Preview

The 2003 “Teaching Clinical Pathology” Session will be held on Saturday, November 15, from 6-8 pm, in conjunction with the Annual Meeting in Banff. The title of this year’s session is “Establishing Core Concepts in Clinical Pathology for Veterinary Students: Building Consensus Amongst the Educators”. The session will be coordinated and moderated by Drs. Holly Bender and Leslie Sharkey. The session is envisioned as a discussion and exchange of ideas regarding the difficult process of defining core concepts for veterinary students. The following questions will be used to guide discussion: (1) How was the depth and breadth of the clinical pathology core curriculum determined at your institution? (2) What are your biggest challenges in implementing the curriculum? (3) What is the role of pathologists in industry/private labs/government in defining the core curriculum? (4) Should the ASVCP have a role in establishing guidelines for a core curriculum in clinical pathology? Please come prepared to share your experiences, stories, challenges, and questions with the group. This topic should spark some lively discussion!

ASVCP Committee Updates

Development Committee

Members: Karyn Bird (Chair), Denise Bounous, Francis Clemo, Dave Fisher, Mike Fry, Roberta Relford, Mike Scott, Betty Thompson, and Susan Tornquist (Executive Board Liaison)

Donations for 2003 have surpassed 2002! The committee is in the final phases of securing continuing support for the Trainee Reception. The Development Committee is working to obtain sponsorship for other programs at the national meeting in Banff by making personal contacts with companies with special interests in this year’s topic area,

biomarkers of disease. Karyn Bird, Development Committee Chair, has participated in conference calls with Susan Rees of the Rees Management Group, Joanne Messick, Program Committee Chair, and Bill Reagan, ASVCP President to discuss how we can coordinate Society development efforts to address overall support for programming at the annual meeting, especially how sponsorship for the workshops can be increased so they will be more available to the general membership. Karyn and Susan Rees are also discussing how the Rees Management Group can help with getting requests out to a larger number of potential donors. If anyone knows of a contact for possible support of our programs, please contact Karyn (karyn.bird@oregonstate.edu) or anyone on the committee.—Submitted by Karyn Bird

Regulatory Affairs Committee

Since the last update, the activities of the committee have consisted of: liaising with comparable committees from other pathology and/or toxicology oriented organizations; organizing the 1-day workshop on Preclinical Hepatotoxicity to be conducted just prior to the ASVCP/ACVP meeting in Banff; and, discussing areas of impact to be addressed by the committee. A joint committee has been developed by the ASVCP, ACVP and STP (Society for Toxicologic Pathology) to monitor and address relevant regulatory issues. This committee will leverage the collective resources of these organizations to proactively and reactively address topics with the appropriate expertise and perspective.—Submitted by Vincent Meador, Committee Chair

Veterinary Laboratory Professionals Committee

The VLP group was organized approximately 10 years ago. It began as an off-shoot of the Business Officers group of the veterinary colleges. Meetings were not held on a regular basis. In 1996 the group became affiliated with the ASVCP as the Veterinary Laboratory Managers (VLM). Since then, meetings have coincided with the ASVCP/ACVP annual meeting (please see p 3 for this year's schedule). In 2000, the name of the group was changed to Veterinary Laboratory Professionals (VLP), to make the group more inclusive of other laboratory personnel. In 2002, the VLP became a Special Interest Group of the ASVCP. In 2003, it became a full Standing Committee of the ASVCP. As such, the Committee has written its Charter:

Charter of Veterinary Laboratory Professionals Committee

Mission:

The Veterinary Laboratory Professionals Committee will foster the development of high quality veterinary clinical laboratories. To accomplish this mission, the Veterinary Laboratory Professionals Committee shall:

1. Develop, communicate, and discuss information related to current applied veterinary clinical laboratory issues.

2. Coordinate, with the Program Committee, continuing education opportunities at the annual conference for veterinary clinical laboratory technologists and other professionals interested in applied laboratory issues.
3. Serve as a vehicle to communicate information on applied veterinary clinical laboratory issues through the website, newsletter, journal articles, roundtable discussions and presentations.
4. Maintain linkages with all other ASVCP committees to insure VLP representation in all decision-making functions.

Membership:

The Veterinary Laboratory Professionals Committee shall be composed of a Chair and a minimum of 5 additional committee members, one of which will be the liaison to the Executive Board. The committee members will initially be appointed for periods of 1-3 years, to allow for a turnover of approximately 25%. Thereafter, members will be appointed for a three-year period.

Members may be appointed for a second term. Members should represent a variety of veterinary clinical pathology professionals such as technical and managerial staff in academia, industry, contract research organizations and government agencies. The appointment of a new Chair and liaison, and the addition and removal of committee members will be done by the ASVCP President in consultation with the current Chair. The Chair will identify and prepare a replacement at least a year in advance of vacating the position. The tenure of the Chair and committee members can be terminated at any time due to sustained inactivity and/or lack of meaningful contribution to the Veterinary Laboratory Professionals Committee.

Reports:

At least annually, or as requested by the Executive Board liaison or President, the Chair of the Veterinary Laboratory Professionals Committee will prepare a written update of the Committee accomplishments, and submit these to the President of the ASVCP. One update will coincide with and be delivered at the annual meeting of the ASVCP.

Current members of the VLP Committee, their professional affiliations, and terms of service are: Committee Chair Linda Vap (Clinical Pathology Coordinator, Colorado State University, 3 year term), Co-chair Dennis Olexson (Manager of Diagnostic Services, Atlantic Veterinary College, 6 year term), Susan Atkinson (Technical Supervisor, Clinical Pathology Section, Animal Health Laboratory, University of Guelph, 1 year term), Carolyn Haines (Clinical Laboratory Manager, Michigan State University, 2 year term), Roberta Moorhead (Laboratory Manager, Department of Comparative Medicine, Stanford University, 3 year term), Nicole Rosen (Laboratory Supervisor, Purdue University, 2 year term), Lisa Shipp (Laboratory Supervisor, University of Illinois, 2 year term), Ellen Willet (Laboratory Supervisor, The Ohio State University, open term), and Liaison to the Executive Board Harold Tvedten (half time at the Swedish Veterinary College and half time at a regional veterinary referral hospital, open term). Thanks to all who have worked to make the VLP what it is today!--Submitted by Lisa Shipp

Executive Board News

The members of the ASVCP Executive Board correspond regularly during the year via electronic mail and telephone conferences to accomplish the Society's Business. Since publication of ASVCP Newsletter #2, 2003, the Board agreed by majority vote to: (1) support a Membership Committee initiative to present information about the ASVCP to students of 3 veterinary schools by providing pizza and soda to attendees, not to exceed \$150 per school/group; (2) to reimburse *Veterinary Clinical Pathology* editor Mary Christopher for her expenses in attending the European Association of Science Editors meeting; (3) in order to increase exposure to our journal, to provide free (no password required) access to all articles on the VCP website for a period of 90 days, beginning on July 1, 2003; (4) to accept a new fee schedule for the *Veterinary Clinical Pathology* journal; and (5) to accept a new annual meeting cost sharing agreement proposed by the ACVP. In accordance with (4), above, the 2004 subscription rates for our journal will be \$80 for individual US subscribers, \$90 for individual non-US subscribers, \$95 for US institutional subscribers, and \$105 for non-US institutional subscribers. Classified ads will cost \$175, and the fee for color plates will be \$200 (effective June 2003). Of course, a subscription to the journal will continue to be included in the ASVCP membership fee.

Tips on Buying a Digital Camera

By Vanessa Preast

Many clinical pathologists still prefer to use traditional film cameras because they feel that these still produce the best quality images. To enjoy the advantages of digital imaging, one must attempt to find a high resolution digital camera that replicates the quality of film images.

Digital Camera Requirements

It is important to determine one's needs in order to best match the digital system's qualities with the available resources and intended use. Consider the ultimate use of the images, because a higher image quality is necessary for print than for projected pictures. This has an impact on the amount of storage space that is required, as higher resolution TIF images are usually very large files. Also, consider the types of specimens to be photographed, since some cameras do an adequate job at low power (tissue sections) but may not provide the necessary detail on oil-immersion. The type of microscopy work, such as fluorescence, darkfield, brightfield or phase contrast, may influence the qualities a camera must possess to best capture an image. Of course, one can not forget budget constraints. Most clinical pathologists will require high quality images taken using oil-immersion and brightfield microscopy. With this in mind, qualities of the ideal camera include:

1. *High Resolution*: Resolution is the most important consideration. The images the camera produces must record the fine detail visible at oil-immersion magnifications. The higher the resolution, the more pixels are present in a given area, which means that

high resolution images can be enlarged to a greater extent before they become pixilated. This is important when one wants to clearly demonstrate very small structures such as RBC parasites or granules. Digital cameras have a wide range in their highest resolution and in the method used to capture the high resolution image.

2. *Color quality*: Images must accurately reflect the colors the human eye sees through the microscope. Color varies somewhat from computer monitor to computer monitor, however, differences between color reproduction become evident when the same monitor is used for all camera demonstrations. Many digital cameras do not accurately reflect the purple colors present in Wright's stained nuclei. Some tend to produce a blue tint that either cannot be corrected or requires significant RGB adjustments.

3. *Intuitive software interface*: An easy-to-use interface makes a tremendous difference in the ease and efficiency of digital photography.

a. *Real-time, color display of the image on the computer monitor*. A display which reflects what the image will look like makes it much easier to develop the composition, to make adjustments to the color and brightness and to focus the microscope prior to capturing the image. If the preview image refreshes slowly or if the preview screen is very small, one may spend a lot of time trying to focus the microscope and snapping photos while trying to acquire a crisp image. If the preview window does not reflect the color correction, one may have to spend extra time taking multiple images and making adjustments before the color appears acceptable.

b. *Zoom*. A zoom feature as part of the preview is very helpful for focusing on small structures.

c. Other features, such as saving multiple settings, options to save as JPG and TIF, choices of resolution level, a measurement bar, individual RGB sliders, point and click white balance and thumbnail displays of captured images are useful.

4. *Speed of file transfer*. Different systems vary in the speed that images can be transferred to the computer. This is an important consideration when one is taking large numbers of pictures. For the low volume user, a minute-long wait for downloading a picture to the PC may be acceptable, but for a busy person, it can be severely rate limiting. Images can be transferred to the computer using several methods including memory cards, serial or parallel ports (slow), USB (faster), Fire Wire (faster than USB), or through boards for the PCI bus (fastest, requires board installation). Transfer of images directly from the camera to the hard drive is most efficient, since no extra steps are required to download the images from the memory cards.

Camera Evaluation and Purchase

It is helpful to seek the opinions of those who have recently purchased cameras, speak with microscope maintenance personnel, and search the world wide web for potential high resolution digital still cameras for the light microscope. Microscopy.Info (<http://www.mwrn.com/product/image/camera.htm>) has links to many of the major camera manufacturers' websites where product specifications and contact information are often available.

When contacting sales representatives, emphasize the exact requirements to avoid wasting time testing unsatisfactory cameras. Reps with more than one suitable camera should bring them all to the demonstration, along with appropriate adaptor(s) to mount the camera to the microscope.

For demonstrations, it is best to install the cameras on the same microscope that will be used for digital imaging. In addition, it is useful to attach one's own flat-panel monitor to the salesperson's computer during the demo. The same few slides, such as a blood film with *Mycoplasma hemofelis* and a smear of feline bone marrow, should be used during each session. Such example slides are good tests of digital camera quality because the small size of red blood cell parasites and the color of the progranulocyte granules are difficult for digital cameras to photograph properly.

Taking a hands-on approach to the demonstration, rather than letting the sales rep run the show, makes it more worthwhile. It is helpful to have two people present, one sitting at the microscope testing the camera by taking a series of photos of each slide, and the other directing more attention to the salesperson and making sure that all questions are answered. Having at least one other person with whom to share overall impressions of each camera is beneficial. By taking control of the software and microscope, one can get a good feel for the software interface and can acquire the images of choice. At the end of a session, most representatives are able to copy the images onto a CD to facilitate comparison with those from other camera demos.

For each camera evaluated, list how well it meets each of your criteria, along with additional likes or dislikes. When ready for purchasing, the sales representative should provide a list of unique features of the chosen camera. Including with the purchase order a letter containing evidence of one's thorough investigation of camera options may provide a compelling argument for Purchasing to grant a sole-source request. Once one obtains the camera, it is important to make sure that the equipment is working properly and to explore its functions. Then one may find it beneficial to start evaluating image management systems to organize all the photos taken with the new purchase!

References

<http://www.microscopyu.com/articles/photomicrography/digital/drentdigital.html>

<http://www.microscopyu.com/tutorials/flash/pixelcalc/index.html>

<http://www.mwrn.com/product/image/camera.htm>

<http://www.asvcp.org/>

In Memoriam

Dr. Joseph S. Spano, 62, longtime member of the Society, died in an accident on May 17, 2003. He was Professor Emeritus at Auburn University's College of Veterinary Medicine, having retired in January after 29 years as a clinical pathologist at that institution. Dr. Spano earned his DVM in 1966 and his PhD in 1971, both from Colorado State. He held ACVP certification in clinical pathology. The recipient of numerous teaching awards, he taught more than 2,500 veterinarians and mentored countless faculty and residents.

Announcements

Change of Address: Please send any changes in mailing address or electronic mail address to the ASVCP Treasurer, Sonjia Shelly at PO Box 395, Davis, CA 95617-0395; Email: sonjia-shelly@idexx.com. Changes received after **February 28, 2003** will not be included in the 2003 Membership Directory.

ASVCP Newsletter and/ or Website Submissions: If you have any material of interest to post in the newsletter or on the website (www.asvcp.org), please contact the ASVCP Secretary, Marlyn Whitney, at D102 Veterinary Medical Diagnostic Lab, University of Missouri, Columbia, MO 65211; Email: whitneym@missouri.edu

ASVCP Membership Application: Member application forms are available at the ASVCP website (www.asvcp.org), or by contacting ASVCP Secretary Marlyn Whitney at whitneym@missouri.edu.

Cytology CD-ROM or "Case of the Week" Subscription Available: A CD-ROM containing 65-70 Power Point programs used for a 2 day cytology course is available for 1000 Swedish crowns (approximately \$123 US dollars or 109 euros). A 1-yr "Case of the Week" subscription is also available for 1000 Swedish crowns. For more information or to purchase these learning materials, contact Harold Tvedten or Mia Runnerus, Stromsholm Referral Animal Hospital, Sylthagsvagen 12, 730 40 Kolback, Sweden. Telephone +46 220-458 30, Fax +46 220-438 26, e-mail mia.runnerus@regdjsh.se or harold.tvedten@regdjsh.se.

Upcoming Meetings

European Society of Veterinary Clinical Pathology/European College of Clinical Pathology: Uppsala, Sweden, ASVCP/ECVCP meeting September 2-4, 2003; combined meeting with the European College of Veterinary Internal Medicine (ECVIM) September 4-6, 2003. Information and registration form available from the ECVIM homepage (<http://www.ecvimcongress.org/>).

Cytology Course: a 2 day course in cytologic diagnosis will be held September 20-21 in Kolback, Sweden. Instructor will be Harold Tvedten, DVM, PhD, Dip ACVP and ECVCP, Professor Emeritus at Michigan State University and Laboratory Chief, Stromsholm Referral Animal Hospital. For more information, contact Dr. Tvedten at Stromsholm Referral Animal Hospital, Sylthagsvagen 12, 730 40 Kolback, Sweden. Telephone +46 220-458 30, Fax +46-220-438 26, e-mail harold.tvedten@regdjsh.sc.

23rd Annual Conference of the Veterinary Cancer Society: Madison, WI, September 26-29, 2003. For further information please visit the Society's website at www.vetcancersociety.org, or contact Barbara McGehee at vcs@cox.net; phone 619-474-8929.

Job Opportunities

Full-time Clinical Pathologist. IDEXX Laboratory Services, the international leader in comprehensive veterinary diagnostics, is seeking a full-time veterinary clinical pathologist for our West Sacramento, California laboratory. This position entails reviewing cytologic and hematologic samples as well as providing consultative services on laboratory data. In the West Sacramento lab, you will be part of strong pathology team including six clinical pathologists and six anatomic pathologists. As part of the IDEXX Laboratories group, our commitment is to create value for our employees, clients and shareholders. For employees, our uniquely supportive professional environment encourages specialty interests and provides strong support for continued professional development. We encourage participation in professional activities of interest such as lab management, specialty organization work, continuing education seminars, and publication. At IDEXX Veterinary Services, your skills are complimented by state-of-the-art facilities, veterinary reference laboratories, GLP services, and the experience of

seasoned, board-certified specialists. This means an extraordinary opportunity to advance career interests while enjoying great compensation and benefits. We are looking for applicants with a DVM degree and ACVP board certification or eligibility. Salary is negotiable depending on experience and qualifications. Thousands of veterinarians and scientists around the world rely on IDEXX to deliver the highest quality laboratory testing and consulting services possible. We provide you with access to the best possible resources. For more information on this exciting career opportunity, please contact us today. IDEXX Veterinary Services is an Equal Opportunity Employer. Contact: David Fisher, DVM, Dipl. ACVP, Head of Clinical Pathology, Western Region, IDEXX Veterinary Services, Inc., 2825 KOVR Drive, West Sacramento, CA 95605, (916) 372-4200 ext 2449, dave-fisher@idexx.com.

Experienced Clinical Pathologist. IDEXX is a world leader in veterinary diagnostics in the areas of in-clinic testing and reference laboratories. Due to continuing expansion we have an immediate opening for an experienced clinical pathologist. We would also like to hear from experienced pathologists who would be interested in a position combining both anatomical and clinical pathology. Based at our comprehensive facilities in Wetherby, West Yorkshire you will be involved in reporting cases and interpreting results generated at the laboratory or in practice relating to cytology, haematology, clinical chemistry and endocrinology. There is a strong, collaborative relationship between our pathology team that includes 6 anatomical and 9 clinical pathologists. We encourage and value diversity and have a commitment to excellence, continued training and professional development as part of the worldwide team of IDEXX pathologists. In addition to an enviable reputation for laboratory analytical quality, expertise and experience we offer the opportunity for you to develop, extend and integrate your diagnostic skills across the sphere of laboratory medicine. This, in addition to a first-rate salary package and pension for permanent staff members. We are looking for applicants with postgraduate experience and qualification in clinical pathology, together with first-class communication and personal organisational skills, a commitment to teamwork and the highest levels of client service. Applicants currently enrolled for qualification examinations will be considered. This position holds a 40 hour/five-day week, which will include some Saturdays. The salary is negotiable depending on experience and qualifications. If you feel you meet our requirements, please send your CV to: Mrs Gill Grainger, IDEXX Laboratories, Grange House, Wetherby, West Yorkshire, LS22 4DN, United Kingdom. Telephone: +44 1937 544000. Fax: +44 1937 544001. e-mail: gill-grainger@idexx.com

Residency Training in Veterinary Clinical Pathology. As part of the most comprehensive health sciences center in America, the Department of Veterinary Biosciences at The Ohio State University offers outstanding training opportunities for students whose career goals include specialty education in clinical pathology training leading to a PhD degree. The department has a successful program in experimental and applied veterinary pathology demonstrated by sustained extramural funding and an excellent record of graduates who successfully pass the certifying examination of the ACVP. Trainees receive excellent training in clinical chemistry, cytology, hematology, immunology, surgical pathology, and molecular techniques. Trainees are directly involved in the teaching and diagnostic services of the clinical pathology laboratories, which provide support services for the large caseload in the Veterinary Teaching Hospital, regional practitioners, and the Columbus Zoo. Areas of research training are Cellular and Molecular Biology, Oncology, Microbiology and Immunology, and Pathophysiology and Pharmacology. Research training includes experience with transgenic animal pathobiology. Stipends begin at \$24,500, and successful applicants will receive a \$2,000 bonus to apply toward the cost of educational supplies. Tuition is provided (\$8,816/resident or \$22,916/non-resident per year), and the university will pay \$180 of the cost of student health insurance per year. A DVM from an AVMA-accredited institution and a GRE score are required. Applications are reviewed upon receipt and will continue until suitable applicants are selected for positions beginning June 21, 2004. Interested individuals should submit a Graduate School application to the Admissions Office of The Ohio State University (<http://gradadmissions.osu.edu>). A curriculum vitae, statement of career goals, and three letters of reference should be submitted to Dr. Michael Oglesbee, Graduate Studies Committee Chair, Department of Veterinary Biosciences, Ohio State University, 1925 Coffey Road, Columbus, OH 43210-1092. For more information, contact Dr. Oglesbee at (614)292-9672, Oglesbee.1@osu.edu or visit the department website, www.vet.ohio-state.edu. The Ohio State University is an AA/EOE.

Orders for 2003 ASVCP Case Review Sets

The 2003 ASVCP Case Review Sets will be sold on the same priority basis as in previous years. Twenty (20) sets are reserved for **purchase** by the presenters of the 2003 cases (NOTE: slide sets are not provided gratis for the presenters). Additional "Institutional Sets" are reserved for purchase by schools or colleges of veterinary medicine that grant a DVM or equivalent degree (NOTE: institutional sets must be purchased by an ASVCP member at the institution). To be eligible for either a Presenter Set or an Institutional Set, the order form with payment must be **received** by the ASVCP Treasurer **no later than October 1, 2003**. After October 1, all remaining slides sets will be sold to ASVCP members in sequential order starting with the earliest postmark dates on the applications. Payments for orders not filled will be refunded. The application form and payment should be sent to the Treasurer at the address on the order form below.

2003 ASVCP Case Review Set Order Form

Please enclose a check or money order (United States dollars only) payable to ASVCP for \$55 for each set to be mailed within North America, or \$65 for those to be mailed to other locations.

Institutional Set (one set per school or college)

Name of Institution: _____

Name of ASVCP member at this Institution: _____

Personal Set or Presenter Set (if your submission is accepted). Availability of Personal Sets is based on earliest postmark dates on order.

Please mail the 2003 Case Set (to be distributed in October) to the following address:

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