Greetings! CVSS is actively making plans for the 2009 national SOT meeting in Baltimore this March. In addition to providing an excellent scientific program, the annual meeting also is a great professional networking venue as well as giving all a chance to be reacquainted with lost colleagues. Look in the program for the time and venue for our annual meeting.

This year will be the first awarding of the Roger O. McClellan Student Award designed to encourage veterinarians to become involved in a career in toxicology. The call for nominations is presented in this newsletter. In addition, Roger’s biography is also the focus of this newsletter in honor of his efforts to found our Section and continually support it.

The SOT annual meeting is only as good as its program. Specialty sections are responsible for proposing workshops, CE courses and symposia. CVSS has a rich history in this regard and I encourage you to submit ideas to Mike Murphy (murph005@umn.edu) who is responsible for pulling this together for the 2010 meeting.

In closing, please contact other SOT members interested in comparative and veterinary toxicology to join our specialty section. Please try to be an active member by nominating your students for our awards and being involved in submitting programs for the national meeting.

Thank you for giving me the honor of serving you.

Jim E. Riviere, DVM, PhD, DSc (hon), ATS
President, CVSS
Student Award Announcement

The Comparative and Veterinary Specialty Section (CVSS) of the Society of Toxicology (SOT) is pleased to announce the sponsorship of plaques and two monetary awards of $ 500 and $300 for the best abstracts accepted by the SOT for presentation at the March 2009 Annual Meeting. Abstracts may be for poster or platform presentations. These awards are intended to promote student interest in experimental in vivo studies of the field of toxicology and are made possible by the CVSS and corporate sponsors.

The CVSS Awards Committee will review applicant submissions. Selection of winning abstracts will be based on in vivo experimental studies demonstrating originality, content, format, documentation and general benefit to the field of toxicology.

Please note the following:
1. Abstracts must be reviewed and sponsored by the student's advisor. A letter of recommendation from the advisor must accompany the submitted abstract.
2. Only one abstract per student may be submitted each year of competition.

The student should submit the advisor's letter of recommendation and the abstract by email no later than November 30, 2008 to: Dr. Kathleen Gabrielson, (kgabriel@jhmi.edu).

Finalists will be contacted in early January and asked to submit the poster for poster presentations or a draft manuscript for the platform presentations by February 29, 2009 to determine the final ranking. Winners will be contacted by e-mail by March 15, 2009 and encouraged to attend the CVSS Specialty Section Meeting.

CVSS in the 2009 SOT

CVSS has sponsored and endorsed a number of programs in the 2009 SOT Annual Meeting in Baltimore, Maryland. Be sure to look out for these programs, come learn and show your support for CVSS.

CVSS Sponsored Programs
- Symposium: Heat Shock proteins and the Toxicological response (SP-31)
- Basic CE course: How Similar is Similar and How Relevant is Relevant? Considerations in the Design of a Predictive Development Program for Biotherapeutics (PM11).

CVSS Endorsed Programs
- Workshop: Improved Safety Biomarkers for Monitoring Kidney Injury (SP-21)
- Advanced CE course: Translational of safety Biomarkers in Drug discovery and development (AM07)
  - Both are sponsored by Regulatory and Safety Evaluation Specialty Section
- Basic CE course: Evaluation of Toxicity to Male and Female Reproductive Systems: Biology, Study Design and Data Interpretation (AM04). Sponsored by Reproductive and Developmental Specialty Section
CVSS Member Highlight: Roger O. McClellan  
DVM, MMS, DSc (Honorary), Dipl-ABT, Dipl-ABVT, Fellow-ATS  
Advisor: Inhalation Toxicology and Human Health Risk Analysis

ROGER O. McCLELLAN a founding member of CVSS is currently an advisor to public and private organizations on issues concerned with inhalation toxicology and human health risk analysis and safety evaluation of consumer products and pharmaceuticals. He received his Doctor of Veterinary Medicine degree with Highest Honors from Washington State University in 1960 and a Master of Management Science degree from the University of New Mexico in 1980. He is a Diplomate of the American Board of Toxicology, a Diplomate of the American Board of Veterinary Toxicology and a Fellow of the Academy of Toxicological Sciences, Society for Risk Analysis and American Association for Aerosol Research.

McClellan is internationally recognized as a Veterinary and Comparative Toxicologist for his research contributions, as a leader of two of the world’s major toxicology research institutions, for his public service contributions, for his contributions to Society, and as a role model for other Veterinarians.

Contributions to Vet. and Comparative Toxicology

McClellan became a member of the American College of Veterinary Toxicology, now the American Academy of Veterinary and Comparative Toxicology (AAVCT), soon after he graduated from the Washington State University College of Veterinary Medicine in 1960. He has been accorded Fellow status by the AAVCT. He was in the group of individuals who took the first certification examination of the American Board of Veterinary Toxicology (ABVT). He passed that examination, was recognized as a Diplomate of the ABVT and was elected President of the ABVT, the first individual to be elected President who was a Diplomate by certification. Subsequently, he was a lecturer in a number of the short courses offered to help individuals prepare for the ABVT examination. He has offered strong encouragement to many colleagues to seek ABVT Diplomate status.

In the late 1960s, he became a member of the Society of Toxicology (SOT). He has served the SOT in many roles including service as President, an office that only three Veterinarians have held. He has received the SOT’s Lehman and Merit Awards; only one other Veterinarian has received both of these Awards. He was in the first group of individuals to take the certification examination of the American Board of Toxicology (ABT) and was certified as an ABT Diplomate in 1980. Subsequently, he encouraged many of his colleagues to take that examination with 12 Lovelace Inhalation Toxicology Research Institute toxicologists, including two Veterinary Toxicologists, becoming certified in 1981 and 1982. He was the Founding President of the Toxicology Education Foundation and the Founding Chair of the Society of Toxicology Endowment Fund.
McClellan has an exemplary record of leadership at the Lovelace Inhalation Toxicology Research Institute (1966-1988), now the Lovelace Respiratory Research Institute, in Albuquerque, NM and the Chemical Industry Institute of Toxicology (CIIT) (1988-1999), now part of the Hamner Institutes in Research Triangle Park, NC. At both institutes, he recruited many exceptional scientists including many individuals whose original professional training was in Veterinary Medicine. He has always viewed Toxicology as being rooted in Comparative Toxicology with Veterinarians having a special role to play in the conduct of toxicological research and the application of toxicology to important Societal issues. Beyond recruiting permanent staff members, he was instrumental in nurturing the training programs at both Institutions. Under his leadership at Lovelace, 500 individuals participated as summer interns, graduate students and postdoctoral fellows. He expanded the already successful CIIT postdoctoral program and gave increased emphasis to other training. During his tenure at CIIT, some 200 individuals participated as summer interns, graduate students or postdoctoral fellows. This included many Veterinarians. Both organizations under his leadership became internationally recognized for team work and the quality of the research that impacted important societal issues.

McClellan has given unselfishly of his time with service on Advisory Committees of numerous public and private organizations. He was the first Veterinarian to serve as Chair of the Committee on Toxicology of the National Academy of Science/National Research Council. He served longer, 7 years, in that role than any other individual. He was a Founding Member, and the only Veterinarian, on the Executive Committee of the original EPA Science Advisory Board. It is especially noteworthy that he has also sought to increase the number of Veterinarians involved in Advisory roles.

McClellan has received numerous awards for his distinguished service and accomplishments. Three will be noted here. He is one of only a few dozen Veterinarians elected to the prestigious Institute of Medicine of the National Academy of Sciences. He received the New Mexico Distinguished Public Service Award and he is one of only three Veterinarians to receive an Honorary Doctor of Science degree from The Ohio State University.

McClellan has had a distinguished career of service and, in doing so, has brought distinction to Veterinary Medicine and the fields of Veterinary and Comparative Toxicology.

**Research Contributions**

McClellan has made seminal contributions to the field of toxicology and human health risk assessment through original research on the toxicity of radionuclides and chemicals and the promotion of research paradigms that help reduce uncertainties in assessing human health risks. He first conducted research as a student intern in 1957 in the laboratory of Dr. Leo Bustad, then at the Hanford Laboratories in Richland, WA. They investigated the tissue distribution and dosimetry of radionuclides in domestic animals. This research was the basis of his Honors Thesis which was used to fulfill the thesis requirements for graduation from WSU with a DVM with Highest Honors in 1960.

This was followed by studies on cancer-causing effects of radionuclides in miniature pigs. In 1966, he and his colleagues began conducting research on the toxic effects of inhaled radionuclides. In the late 1970s, he and his colleagues began conducting research on the health effects of emissions of power plants and vehicles, in particular focusing on diesel-fueled engines.

He was a pioneer in emphasizing the use of two paradigms to guide research to reduce uncertainties in estimating human health risks:

1. a risk-based approach to link sources of pollutants $\rightarrow$ environmental levels $\rightarrow$ personal exposure $\rightarrow$ dose to critical tissues $\rightarrow$ adverse health effects.

2. the acquisition of mechanistic information (how radiation and chemicals cause disease) that aids in reducing the uncertainties in estimating health risks at various levels of exposure.
He has used these paradigms to guide his own research and that of his colleagues as he provided leadership for two major institutions: Lovelace Inhalation Toxicology Research Institute (1966-1988) and Chemical Industry Institute of Toxicology (1988-1999). Under his leadership both organizations developed a strong multi-disciplinary research team and achieved international recognition for the scientific contributions. These paradigms are now widely accepted and used in safety and risk assessment in the U.S. and around the world.

He has authored or co-authored over 300 papers reporting original research findings and edited 10 books, he has served as Editor or Co-Editor of many journals, and he has served as Editor of Critical Reviews in Toxicology for more than 20 years. He is a frequent speaker to both scientists and lay audiences.

Public Service Contributions
McClellan has made major public service contributions by bringing science to bear on important societal issues concerned with environmental and occupational health. He is widely recognized for his ability to integrate and synthesize information from different disciplines.

He has served on more than 60 important advisory committees. This includes service on committees for every federal agency concerned with human health including the National Institutes of Health, Environmental Protection Agency, Department of Energy and Department of Defense as well as Committees of the National Academy of Science/National Research Council and the Institute of Medicine. In many instances he has chaired the Committee.

His public service has been recognized by his receipt of many honors including:
- election to the Institute of Medicine of the National Academy of Science
- an Honorary Doctor of Science degree from The Ohio State University
- Washington State University Alumni Achievement Award
- Washington State University College of Veterinary Medicine Distinguished Veterinary Alumnus Award for Excellence in Research
- University of New Mexico School of Management Hall of Fame
- New Mexico Distinguished Public Service Award
- International Aerosol Fellow Award
- International Society of Regulatory Toxicology and Pharmacology International Achievement Award
- Fellow – American Association for Advancement of Science
- Most recently, Dr McClellan was recognized as the “Distinguished Regents Alumnus” by the Washington State University Board of Regents. The award is the highest honor the university grants to an alumnus.

He has provided leadership for major scientific organizations including service as President of the Society of Toxicology, the world’s largest scientific organization in the field of toxicology and American Association for Aerosol Research, the world’s largest organization concerned with all aspects of aerosols.

He has been, or is, an adjunct faculty member at 10 major universities.

He is a frequent speaker in national and international forum concerned with the use of science in assessing human health risks of technological developments.
Contributions to Society
McClellan has made major contributions to helping ensure the safe use of modern technology.

- The research he and his colleagues conducted in 1960 to 1980 has provided the critical scientific basis for assessing risks of radioactive emissions in the Nuclear Industry including the level of control required for any future use of nuclear power.

- Research conducted, starting in the 1970s, on power plant emissions and diesel fueled engines has provided a basis for establishing guidance to help control the public health impacts of these technologies. He is currently active in developing the research strategy for evaluating the health benefits of new “clean diesel” technology with remarkably reduced exhaust emissions.

- Research conducted starting in the 1980s has provided an improved paradigm for evaluating the safety of chemicals and pharmaceuticals including current work on inhaled pharmaceuticals.

The research of Dr. McClellan and his colleagues has had major impact on how public health risks and safety are addressed in the nuclear, chemical, transportation and pharmaceutical industries. The two organizations he provided leadership for serve as models for the use of multi-disciplinary teams of engineers, physical scientists, biomedical scientists, physicians and Veterinarians to address complex societal issues.

McClellan has had a distinguished career of service and, in doing so, has brought distinction to Veterinary Medicine and the fields of Veterinary and Comparative Toxicology. His commitment to CVSS is further exemplified by a recent fund the “Roger McClellan Student Award” (see additional details below).

Roger O. McClellan Student Award

“Participation in the SOT has been one of the cornerstones of my career. I want to help create financial resources so the SOT can continue to nurture the professional growth of future generations of toxicologists.”
Roger O. McClellan, DVM, MMS, DSc (Honorary), Dipl-ABVT, Dipl-ABT, Fellow-ATS

This Fund was established with an initial gift from Roger O. and Kathleen McClellan. Roger O. McClellan is one of 400 individuals who have a Doctor of Veterinary Medicine (DVM or VMD) degree and are members of the SOT. He has served the SOT in many roles including President (1989–1990) and the Founding Chair of the SOT Endowment Fund Board. The Fund is being created to further Roger’s and Kathleen’s long-time interest in encouraging individuals with a DVM degree to pursue careers in biomedical research including comparative toxicology and pathology. Proceeds from the Fund will be used to provide stipends to Award recipients selected based on the scientific merit of research proposed for presentation at the SOT Annual Meeting.

Special consideration will be given to abstracts that exemplify the role of comparative medicine in evaluating the safety/risk of exposure to chemicals or physical agents. Nominees for the Award(s) must be individuals who are enrolled in a program leading to a DVM degree or in post-DVM residency or graduate program. The awardee must be a member of the Society of Toxicology (any level) or
have an application pending. The abstract must be submitted and accepted through the regular SOT submission process (deadline October 3, 2008). This research must be hypothesis driven. Please email applications to Norman Barlow, DVM, PhD, DACVP (norman.barlow@sanofi-aventis.com) and Kathleen Gabrielson, DVM, PhD, DACVP (kagabriel@jhmi.edu) by February 1, 2009. The award application must include the following. (1) A letter of recommendation from the mentor should be submitted along with (2) a one page statement of mentee’s scientific interest. (3) A copy of the abstract should also be included in the application. The awardee will either present their research in a poster or a platform presentation at the annual SOT meeting. The awardee must attend the receptions for both the Comparative and Veterinary Specialty Section (CVSS) and the Toxicologic and Exploratory Pathology Specialty Section (TEPSS). The award will be given at one of these receptions. Award recipients will be selected by a committee jointly appointed by CVSS and TEPSS. This new Award will complement existing awards of these two Specialty Sections thus applications for multiple awards are encouraged. For the 2009 competition, the Roger O. McClellan Award will be equal to $2000.00.

Please email Dr. Barlow or Dr. Gabrielson if you have any questions.

Recent Publications from Members


**Future Meetings Announcement**

Eighth Biennial Short Course on Toxicology & Pathology in Drug Discovery & Development (previously Industrial Toxicology and Pathology), July 20 to 22, 2009, Hilton Garden Inn, Champaign, Illinois, USA. Co-Directors: Wanda M. Haschek-Hock and Matthew A. Wallig, University of Illinois, Tel: (217) 333-3947; Fax: (217) 244-7421; whaschek@illinois.edu; http://www.cvm.uiuc.edu/ope/itp/

Target Organ Toxicologic Pathology, Part 1 (covering respiratory, hepatic and cardiovascular systems). July 22 to 24, 2009, Hilton Garden Inn, Champaign, Illinois, USA. Co-Directors: Wanda M. Haschek-Hock and Matthew A. Wallig, University of Illinois, Tel: (217) 333-3947; Fax: (217) 244-7421; whaschek@illinois.edu; http://www.cvm.uiuc.edu/ope/itp/

**Leadership Opportunities in CVSS**

Each year we recognize outgoing officers and elect their replacements. This year we will be electing a Vice President Elect. This is a three-year commitment and transitions to Vice President on year two and President on year three. We will also be electing a Secretary-Treasurer and a Councilor, both two-year commitments. If you would be interested in being placed on the ballot for any of these positions or if you have any questions, please contact Dan Ness (Dan.Ness@elan.com). This is a great way to get involved in our Specialty Section.

**Current Officers and Councilors (2008-2009)**

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<th>Position</th>
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