Dear CTPVSS colleagues:

I hope this newsletter finds you and your family well. First of all, thank you for giving me the opportunity to serve as your 2021-2022 President of CTPVSS!

We are delighted to bring fall edition of CTPVSS newsletter. I would like to recognize our newsletter committee members, Caroline Moore, Sonika Patial, and Jaclynn Andreas for their wonderful job in putting together this newsletter! We packed the newsletter with several exciting updates such as highlights from our 2021 CTPVSS Virtual Annual Meeting and accomplishments and highlights of our members. After merger and formation of this new Specialty Section, we have been continuously striving to increase the involvement of membership, for example through program webinars, mentoring events, and scientific proposals. On behalf of our executive committee, I am very pleased to let you know that we have introduced 4 new awards this year (Best Publication of the Year, Outstanding Young Investigator Award, Outstanding Mid-Career Investigator award, and Lifetime Achievement Award). Please check out the details of these newly added awards in this newsletter and on also the website and consider yourself to nominate or someone who deserves to receive these awards. There are several opportunities you can get involved with our Specialty Section and please reach out to any of our executive committee members.

Finally, follow your local guidelines wherever you are in the world, get vaccinated, and continue to wear masks so that we can put the COVID19 pandemic under control and soon meet in person at the 2022 SOT Annual Meeting in San Diego, California.

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Sonika Patial, Councilor
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Caroline Moore, Postdoctoral Representative
camooore@sandiegozoo.org

Jaclynn F. Andres, Graduate Student Representative
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CTPVSS Business Virtual Meeting Highlights

What we covered

- Introduction of new board members
- Award Presentations
- Remarks of Dr. Roger O. McClellan, DVM, DABT, DABVT
- Updates on Newsletter
- Financial Report
- Open discussion

**Thank you to our speakers**

Dr. Roger O. McClellan, DVM, DABT, DABVT
Bhanu Singh, BVSc, MS, DABT, DACVP, FIATP
Satya Achanta, DVM, PhD, DABT
Vanessa Schumacher, DVM, MS, DACVP, DABT
Tomas F. Magee, BA
Caroline Moore, DVM, PhD
and our 2021 Award winners!!

Thanks to over 40 of our CTPVSS members who attended the meeting!
Congratulations 2021-2022 CTPVSS Officers!

President:
Satya Achanta, DVM, PhD, DABT

Councilors:
Vinicius Carreira, DVM, PhD, DACVP, DABT

Vice President:
Gopinath Palanisamy, DVM, PhD, DACVP

Sonika Patial, DVM, PhD, DACVP

Vice President-Elect:
Katherine Horzmann, DVM, PhD, MPH, DACVP

Postdoctoral Rep:
Caroline Moore, DVM, PhD

Secretary/Treasurer:
Tom Magee, BA

Graduate Student Rep:
Jaclynn Andres, PhD Student

Past President & Councilor:
Bhanu Singh, PhD, DABT

Thank you Bhanu for your dedication and hard work to the comparative, toxicology, and veterinary sciences!
Read full officer biographies here – Connect with us via LinkedIn, email and through ToXchange
ToXchange has a new look! Make sure to update your profile and stay up to date with advancements in SOT and the field of toxicology.
CTPVSS 2021 Award Recipients

**CTPVSS Student Award (1st):** Danielle Kozlosky  
**Title:** Sex-Dependent Differences in Placental and Fetal Cadmium Toxicity in Mice

**CTPVSS Student Award (2nd):**  
**Title:** A novel anthelmintic drug suppresses the growth of medulloblastoma by inhibiting PKA/Gli1 signaling axis

**CTPVSS/Charles River Travel Award:** Trainee Award:  
**Title:** In utero ultrafine particulate matter exposure leads to enhanced murine neonatal RSV infection severity

**CTPVSS Trainee Award:** Ishita Choudhary  
**Title:** Compartment-specific transcriptomics of ozone-exposed murine lungs reveals sex- and cell type-associated perturbations relevant to mucoinflammatory lung diseases

**Roger O. McClellan Student Endowment Award:**  
**Andressa Gonsioroski**  
**Title:** Iodoacetic Acid Affects Estrous Cyclicity, Ovarian Gene Expression, and Hormone Levels in Mice

**CTPVSS/STP Student Award:** Melissa Wilkinson  
**Title:** Alveolar and Interstitial Macrophages are Activated in a Model of Pulmonary Fibrosis
Congratulations to all our 2021 SOT award winners!

CTPVSS 2021 Finances

The CTPVSS final 2021 budget is roughly $9,000 with membership dues and final award breakdown needs considered. With the 2022 SOT Annual Meeting in person (as of now) we will be planning our awards accordingly.

Mentorship and Outreach

Book Club - “Never Eat Alone” by Keith Ferrazzi
In the past we have tried to foster mentor-mentee relationships through a book club targeting networking and communication skills. The problem? We need you! We are currently in need of mentors. If you are willing to volunteer, please email Jaclynn Andres (ifa68@scarletmail.rutgers.edu) ASAP. The future of CTPVSS needs you!

For Mentees!

SOT ABSTRACTS DUE DECEMBER 1st, 2021: Tips and Tricks for submitting an SOT abstract

The call of an in-person SOT meeting beckons a return to the normalcy we have been missing these last two years. With the opportunity to attend in sunny oceanside San Diego, writing an amazing abstract is more important than ever! In this mini article we provide you requirements and considerations for submitting a solid SOT abstract.

First SOT abstract? No problem! SOT has set 4 main standards for abstracts this year. First is that no more than 2,300 characters are allowed, including the title and institutions; this can be one of the major reasons an abstract gets rejected, so make sure to double check before submission. Second is that no abstract can include tables, figures, or structures. However, you can include equations in your abstracts. Third is that you are not allowed to include headers or sub headers, meaning no “introductions” or “results,” an overall great way to reduce character count. Finally, you must define all non-standard acronyms within your abstract.
Beyond the standard SOT requirements, writing a good abstract requires that you state 1) why we should care, 2) what was done, 3) what was found, and 4) impact of findings. Even if your project is currently small, be creative and be convincing of your project’s importance, while staying true to your work. If you struggle to start an abstract, start with an outline that answers these questions in a linear thought process. Remember that you do not have to describe everything you did; that is what your poster is for! Avoid statements like “data will be presented later” and instead include a brief description of what the data was or meant, including significant findings (percent change, p-value, etc.). If there is not enough space for all your data, just provide the key pieces. For students, be sure to have approval from your PI before you submit.

Finally, be sure to start your abstract early! SOT uses an online submission system that requires additional information and time. Submission websites can get bogged down on due date, so make sure to submit as early as possible! You can add your abstract to the site text box and continue to edit up until submission. The official deadline on December 1st at 11:59pm ET. Refer to the SOT frequently asked questions page if you have more questions about abstracts or poster presentations. Once your abstract is submitted, be sure to peruse the list of award opportunities. CTPVSS has a number of new awards available to apply to this year! Due date: December 30th, 2021

CTPVSS looks forward to seeing you at the 2022 SOT meeting in San Diego!

**Upcoming Events**

**NEW AWARDS:** Please check this out!! CTPVSS is excited and has worked hard to introduce several new awards this year to broaden our positive impact on the field.

1. Student Award (1st and 2nd place awards)
2. Trainee Award
3. Roger O. McClellan Student Award
4. Charles River Award
5. STP Student Award
6. Best Publication of the Year – NEW
7. Outstanding Early Career Scientist – NEW
8. Outstanding Mid-Career Scientist – NEW
9. Lifetime Achievement Award – NEW

**Award Applications 2022:** [Awards](#)

CTPVSS is now accepting award applications for 2022 SOT abstract submissions! The deadline is December 30th, 2021. Please visit [Awards](#) for award details.

**Check it out today:** [CTPVSS website](#)
If you haven’t already, renew your SOT membership! During the SOT membership renewal process for 2021 you will be able to select the combined (SOT and CTPVSS) membership.

CTPVSS Member Highlights

We asked what you were proud of in the last year and here are your responses!
Very impressive! Thank you for contributing!

Andressa Varella Gonsioroski, DVM, MS
Graduate student
Department of Comparative Biosciences
University of Illinois at Urbana Champaign

- Dr. Gonsioroski was awarded the CTPVSS Roger O. McClellan Award 2021, Midwest Regional Chapter, Society of Toxicology Travel Award 2021 and the Interdisciplinary Environmental Toxicology Program Scholarship, University of Illinois at Urbana-Champaign 2021.
- She also had successful pathology externships participating in necropsy rounds, tissue trimming, slide reviews at Veterinary Diagnostic Laboratory University of Illinois at Urbana-Champaign and Louisiana Animal Disease Diagnostic Laboratory, Louisiana State University, LA USA. Additionally, she was the teaching assistant for histology and veterinary anatomy at the College of Veterinary Medicine at University of Illinois at Urbana-Champaign.

Gennadiy Bondarenko, PhD
Scientific Specialist, Immunohistochemistry
Specialty Pathology Services

Labcorp Early Development Laboratories Inc.


Laura M. Patrone, PhD, DABT
Associate Director, Toxicology
PTCTherapeutics, Inc.

- Dr. Patrone was awarded the PTC Therapeutics first CEO Award defined as follows: “During this unprecedented time, you have exemplified what it means to be Ever Better, fulfilling the PTC mission of making every day count and caring for each other, our community, and the needs of our patients.”

Satya Achanta, DVM, PhD, DABT
Assistant Professor, Department of Anesthesiology
Duke University School of Medicine
• The National Institutes of Health’s National Institute of Environmental Health Services has awarded Duke Anesthesiology’s Satya Achanta, DVM, PhD, DABT, a two-year, $442,750 R21 grant for his project, titled “Inhibition of Soluble Epoxide Hydrolase Protects Against Phosgene-Induced Lung Injuries.”
• Dr. Achanta also received the Young Investigator Award from Association of Scientists of Indian Origin (ASIO) at SOT 2021 annual meeting.
• Dr. Achanta received Domestic ToxScholar Outreach Grant Award to promote toxicology graduate studies and toxicology career to undergraduate students at Norfolk State University, VA

Caroline Moore, DVM, PhD
Scientist, Disease Investigations
San Diego Zoo Wildlife Alliance

• Dr. Moore received a promotion from Steel Endowed Pathology Fellow to Scientist at the San Diego Zoo Wildlife Alliance to continue her work as a veterinary toxicology researcher providing molecular and diagnostic toxicology support to conservation field projects around the world.
• Dr. Moore also has a recent publication in the SOT PDA Post-v on her travels to the Peruvian Amazon to set up in situ mercury testing.

Zbigniew W. Wojcinski, DVM, DVSc, DACVP, DABT, FIATP
Toxicology & Pathology Consulting, LLC

• Dr. Wojcinski was the 2020–21 President for the American Veterinary Medical History Society and was recognized as a Fellow, International Academy of Toxicologic Pathology, 2021
• Dr. Wojcinski’s recent publications include the following
  o Illustrated Dictionary of Toxicologic Pathology (Pritam S Sahota, Robert H Spaet, Philip Bentley, and Zbigniew W Wojcinski, Co-Editors) CRC Press, 2019.

Jennifer M. Duringer, Ph.D.
Assistant Professor (Sr. Research) and Director of the Endoptye Service Laboratory
Department of Environmental & Molecular Toxicology
Oregon State University

Dr. Duringer’s recent publications include the following:
• JM Duringer, LL Blythe, CT Estill, A Moon, LD Murty, S Livesay, A Galen, AM Craig. (2021) Determination of a threshold for perennial ryegrass (Lolium perenne)
toxicosis in cattle consuming endophyte-infected perennial ryegrass straw over 64 days. Livestock Science 250: 104570. DOI: 10.1016/j.livsci.2021.104570


Lauren M. Walker, PhD
Postdoctoral Associate | Aleksunes Research Group
Department of Pharmacology and Toxicology | Rutgers University

- Dr. Walker was awarded the Marie W. Taubeneck Award (Society for Birth Defects Research and Prevention (BDRP)), a Research Supplement to Promote Diversity Grant (National Institute of Environmental Health Sciences (NIEHS)), and the Celebrating Women in Toxicology (CWIT) Award (Women in Toxicology Special Interest Group, Society of Toxicology).
- Dr. Walker’s recent publications include the following:

Vijay Kale DVM, MVSc, PhD, DABT, ERT
Project Team Representative | Translational Safety and Bioanalytical Sciences
Amgen South San Francisco

- Dr. Kale has been elected as Early Career Representative to the Board of Directors of Federation of American Societies for Experimental Biology (FASEB) for a three-year term starting from July 1, 2021.
- Dr. Kale’s recent publications include the following:

Roger O. McClellan, DVM, MMS, DSc (Honorary)
Diplomate-ABVT and ABT, Fellow-ATS, AAAS, HPS, SRA, AAAR, and American Thoracic Society
Elected Member (1990) - National Academy of Medicine

- I thought I would start by noting that this is the 60th Anniversary of the initial meeting of the Society of Toxicology held on August 29, 1961. My key mentor, Leo K. Bustad always emphasized the importance of having a large network of colleagues. In that spirit, he urged me to give a paper at the AVMA meeting held in Detroit in late August 1961. He then suggested since I was the east I should go on to Rochester, NY and meet folks doing radiation work at the University of Rochester. And he also
noted I should talk in the meeting of the American Society of Pharmacology and Experimental Therapeutics being held in Rochester. I met a lot of faculty at the U of R including Harold Hodge, Chair of Pharmacology. He noted he was chairing an ad hoc meeting the next day of a group interested in starting a new Society of Toxicology and that I should attend. On August 29, 1961, I joined 48 other folks attending the meeting. Harold Hodge would be elected the first President of the SOT. A few years, later after publishing a few papers, I became an official member of the SOT. It has been quite a journey including participation in many SOT activities over the years including service as the SOT President in 1989-1990. I am pleased that over the decades many Veterinarians have joined the SOT, and many have served in leadership roles. I urge every ABVT Diplomate to join the SOT if they are not already a member.

• The Journal I have edited since 1987, Critical Reviews in Toxicology, celebrated its 50th Anniversary in 2020. An editorial I prepared marking the occasion is available online-- "Critical Reviews in Toxicology: Celebrating 50 Years of Publishing Scientific Advances in Toxicology and Risk Analysis”, Critical Reviews in Toxicology, 50: 10, 827-835, DOI:10.1080/10408444.2020.1868143. I am pleased that many Veterinarians have authored papers published in CRT. I would be pleased to receive any review manuscripts that ABVT Diplomates prepare in the future. Please drop me a note if you have any questions concerning your potential submission and its match to CRT.

• (3) Risk Analysis has been an important part of my career since I began conducting research as a high school student in Richland, WA, adjacent to the Hanford Nuclear Facilities. The first study I participated in involved investigating the potential for Iodine-131 exposure to cause cancer in sheep. The principal investigator was Leo K. Bustad. In 1981 I became a charter member of the newly formed Society for Risk Analysis. I am proud to note that I was recently informed that I would receive the SRA’s Distinguished Service Award at the Society’s virtual meeting in December 2021. I think I may be the first Veterinarian to receive the SRA Award.

• I am grateful for my education in Veterinary Medicine. That education and the encouragement of many mentors opened a lot of doors for me along the way. At the Hanford Laboratories, the Lovelace Inhalation Toxicology Research Institute in Albuquerque, NM, the Chemical Industry Institute of Toxicology in Research Triangle Park, NC I had the pleasure of working with many accomplished scientists trained in many different disciplines. They were wonderful colleagues and team players. As we say in the West, it has been a great ride! Never avoid a new trail because you are uncertain where it will lead you!

• Please call your students attention to the Roger O. McClellan Student Award given each year by the Comparative, Veterinary, and Toxicologic and Exploratory Pathology Specialty Section of the SOT. Over ten years ago, my wife, Kathleen and I started the Endowment Fund that supports the Award. The Award is one of the most substantial given by the SOT. Its exclusive focus is to encourage individuals trained in Veterinary Medicine to pursue careers in biomedical research.

• On a historic note, I recall a WSU graduate who was one of the first Veterinarians associated with the San Diego Zoo. He visited WSU several times when I was a student and gave some very inspiring
lectures. He emphasized that there were many paths to a successful and rewarding career using one's education in Veterinary Medicine.

Brittany Szafran, DVM, PhD
Associate Service Fellow at the Agency for Toxic Substances and Disease Registry

• Dr. Szafran received her PhD (Environmental Toxicology at Mississippi State University) this past spring and was recently awarded the Boehringer Ingelheim Veterinary Research Award for Graduate Veterinarians for her graduate schoolwork. Dr. Szafran also recently accepted a position at ATSDR.

CTPVSS Member Contributions

Sleep, the final frontier...

Krishna Allamneni, BVSc & AH, MS/PhD, DABT
Vice President Development Sciences, Turning Point Therapeutics

Have you ever downright envied your feline friend for how much and how well they sleep, as if they can simply fall asleep without a care, as and when their spirit moves them? Why is it that the terms sleepy and tired are so often used interchangeably? Can there be a one-size-fits-all 8 hours of sleep yardstick that everyone can go by? How does your body know when it's time to sleep? Why do we need it, and are we getting enough? How did COVID impact sleep?

Sleep has been one of the most important yet least understood of the organ systems. While the architecture of sleep [wake, rapid eye movement (REM), and the four stages of non-REM i.e., slow wave sleep], and the brain mechanisms that control REM and non-REM sleep states were discovered only shortly after the end of WWII; the last 10 years have been extremely productive for sleep researchers focused on ordinary sleep, as a subject that medicine concerned itself with. Sleep medicine is now a specialty and an explosion of scientific discoveries as evidenced by the above illustration of PubMed articles on sleep in 2009 (n=1416) vs those in 2019 (n=2947) shed new light on this

Figure 1. Sleep medicine publications in PubMed by year.
fundamental aspect of our lives. The rising appreciation of ordinary sleep tracks well with the general population’s awareness of their own sleep quality, aided by the massive flood of sleep apps and wearable devices.

In an oversimplified view of this complex neuroendocrine regulation of sleep, we can consider two key drivers. The circadian rhythm and the sleep drive are factors regulating sleep and wakefulness. When light hits the retina, a wake-up signal is sent to cells in the suprachiasmatic nucleus of the hypothalamus, which keep time and monitor our sleep-wake cycle. At dusk, in response to the darkness, the pineal gland releases an endogenous hormone, melatonin, which helps with sleep promotion by inducing physiological changes such as decreased body temperature and respiration rate. Melatonin is not the only chemical that determines our sleep schedule. Adenosine also plays an important role: it slows down the activity of neurons. Adenosine levels gradually rise throughout the day when we are awake, binding to adenosine receptors and inhibiting neuronal activity and making us feel drowsy by the end of the day.

Since before recorded history, naturally occurring stimulants such as plant-based caffeine has been consumed to affect wakefulness. The role of caffeine as an adenosine receptor antagonist preventing adenosine from inducing sleepiness has been well utilized by the time of industrialization to maintain a state of arousal during work hours. Melatonin’s more recent discovery and synthesis in the 1950s paved the way for its use as a supplement to improve the onset, duration, and quality of sleep.

Figure 2. Why We Sleep: Unlocking the Power of Sleep and Dreams”, Matthew Walker Figure 7.
In his book “Why We Sleep: Unlocking the Power of Sleep and Dreams”, Matthew Walker, a UC Berkeley neuroscientist and sleep expert gives us a new understanding of the vital importance of sleep, illustrates the two processes of sleep and wakefulness in a 48-hr sleep deprivation (see above figure), common to graveyard shifts and the broad impact of sleep deprivation on morbidity and mortality, ranging from sports performance and injuries to car crashes to obesity.

Sleep complaints such as difficulty falling asleep, maintaining sleep, early morning awakening, or nonrestorative sleep are very common (30%) in the general population. Adjusting sleep habits proactively is possible for many people. However, people with chronic sleep disorders depend on innovative therapies to address their needs and manage their symptoms more effectively. Pharmacological and non-pharmacological interventions are typically sought for excessive daytime somnolence (EDS), insomnia, abnormal movements or behaviors during sleep, and an inability to sleep at the desired time. Forward and reverse genetic approaches in animals have implicated orexin / hypocretin signaling in the control of vigilance and sleep/wake states, and hypocretinergic deficiency in narcolepsy and orexin has been investigated as a therapeutic target for this rare disease.

Insomnia remains one of the most common sleep disorders encountered in the geriatric population. Currently approved treatments for insomnia primarily target γ-aminobutyric acid-A (GABA-A) receptor signaling and include benzodiazepines and GABA-A receptor modulators. These drugs are effective but are less attractive as maintenance therapy due the potential for side effects such as tolerance and dependence. Unfortunately, it can sometimes take up to 10 years for patients with some sleep disorders, such as narcolepsy, to receive a proper diagnosis, making it that much harder to begin their treatment journey and get the care they need. COVID-19 has only exacerbated it, further slowing the rates of diagnosis, and impeding effective care and treatment of sleep disorders.

In a recent review, a high prevalence of sleep problems has been reported during the SARS-CoV-2 pandemic, which may be explained due to fear of COVID-19 or sleep-related factors such as changes in sleep-wake habits with delayed bedtime, lights off time, and sleep onset time due to quarantine, lockdown, and working from home. Erik and Aleksandar offer a poignant editorial on sleep diagnostics and neurotherapeutics in the era of COVID-somnia, introducing the conference proceedings of the 2019 Vancouver World Sleep Congress published as the Neurotherapeutics Sleep Neurology volume.

The co-epidemic of sleep deprivation during COVID, with almost 1 in 3 individuals and almost half of all COVID patients and health care professionals, highlights the urgency with which the sleep industry needs to address CDC’s 2013 declaration of sleep disorders as a “public health epidemic” and the necessity of extended collaborations with advocacy groups to raise public awareness in promoting healthy sleep.

In his commitment to raising sleep awareness, one Pharma executive highlights that “while navigating the COVID-19 pandemic may have emphasized the connection between sleep, health and stress management, it also reminds us that people with sleep disorders—such as idiopathic hypersomnia, narcolepsy and
obstructive sleep apnea—face many unmet needs and new barriers to care.” Against this backdrop, the treatments coming to market and efforts to increase diagnosis rates represent hope for the future and an ongoing commitment to the sleep community.

Veterinary Toxicology

Wilson K Rumbeiha DVM, PhD ABVT, DABT and Robert Poppenga DVM, PhD, DABVT
UC Davis School of Veterinary Medicine, Davis, CA

In the early days veterinary toxicology emerged from clinical medicine and pharmacology and was largely concerned with identification of toxicants causing illness and the management of intoxicated patients. Since then, veterinary toxicology as a discipline has changed tremendously in its breadth and depth to adequately meet the toxicology challenges of today. In the US, veterinary toxicology as a distinct discipline was first recognized by the American Veterinary Medical Association in 1968. The most significant challenges faced by early veterinary toxicologists related to rapid agricultural expansion and the increasing use of pesticides to improve crop and animal production. Pesticide and plant poisonings of livestock were a frequent occurrence and there was a need to understand toxic mechanisms, characterize toxicity, and to discover effective treatments of intoxicated animals. In parallel, there was an increasing need from industry and regulatory agencies for professionals well qualified to assess the safety of drugs, pesticides, and other chemicals to avoid introducing unsafe products on the market. Veterinary toxicologists were well suited to fill these needs given their broad knowledge of comparative medicine and toxicology. To this day veterinary toxicologists continue to be key players in drug and chemical safety assessment.

Other areas where veterinary toxicologists have historically contributed include teaching veterinary students, mentoring graduate students and residents, and conducting research. For research, veterinary toxicologists bring unique expertise rooted in their broad knowledge of comparative medicine and toxicology. As veterinarians and physicians have adopted a One Health (human, animal, and environmental health are closely interrelated) approach to health issues, the unique
comparative training of veterinary toxicologists has been critical in protecting environmental and ecosystem health. Environmental pollution from industrial discharges and agricultural chemicals has negatively impacted human, animal, and plant health alike. Not only do veterinary toxicologists treat acutely or chronically intoxicated livestock and wildlife, but they have also been key players in protecting public health from chemical and radiological contaminants in the human and animal food chains. Veterinary toxicologists are also involved in animal poison control centers and serve as experts in litigation involving malicious animal poisonings or livestock feed and pet food errors.

It is apparent that by virtue of our specialized training and experience, veterinary toxicologists have and continue to make unique and significant contributions in classrooms, animal health care, basic and applied research, forensics, environmental health, and animal and human food safety. Given their unique training, veterinary toxicologists are well prepared to address new and more sophisticated global challenges such as climate change, droughts, floods, wildfires, and food insecurity. Climate change and food insecurity are interrelated and in combination are destroying human and animal habitats forcing humans, livestock, and wildlife to co-mingle and exchange zoonotic diseases. Research at the pathogen/toxicant interface is needed. The future for the discipline is bright provided veterinary toxicologists help meet current challenges as effectively as the early pioneers of the profession met challenges of their time. Current and emerging issues are increasingly complex and global. They require a collaborative One Health approach to find local, regional, and global solutions. Veterinary toxicologists are well positioned to provide unique solutions to these challenges and to contribute to a safer world for generations to come.

**Get involved with CTPVSS**

*Please Consider Supporting SOT CTPVSS Endowment Funds*

Our joint SOT CTPVSS endowment fund, the Roger O. McClellan Student Award Fund, enables the CTPVSS to provide an award for outstanding DVM/PhD Students. Therefore, we ask that you consider supporting the endowment funds. Your contribution will enable CTPVSS to recognize an outstanding individual for her/his accomplishment in the Veterinary Toxicology field. To review the fund and donate, kindly visit the CTPVSS website.

*Reminder: Update your SOT ToXchange Profile:* Now is the time to update your SOT profile on ToXchange! This membership directory serves you and others in many ways, including for potential employers to search for their candidates, networking with current and future members, and for SOT members to reach out to potential mentors. [Update your profile](#) and help others!

*Many Ways to Get Involved with CTPVSS*

Finally, here are the various way by which you can get involved:

- Volunteer to serve on a CTPVSS committee
• Nominate yourself for an officer position
• Serve as a CTPVSS Mentor
• Attend Annual CTPVSS Luncheon
• Click here to join the SOT Comparative Toxicology, Pathology, and Veterinary Specialty Section!
• Email sothq@toxicology.org to contact us and receive more information about a career in comparative toxicology, pathology, and veterinary research!

2022 SOT Annual Meeting Website!

Mark your Calendars for 2022 SOT Annual Meeting

It is scheduled to be in person.

The abstract submission period for the SOT 61st Annual Meeting and ToxExpo is September 15 – December 1st, 2021. Abstracts must be submitted through the online Abstract Submission System for consideration for the 2022 SOT Annual Meeting and ToxExpo.

Please note that some SOT awards are contingent upon having an abstract submitted to and accepted for the SOT Annual Meeting. Some of these award deadlines precede the abstract submission deadline, so plan accordingly.

Poster Sessions

Details on how and when posters will be presented as part of the Annual Meeting will be shared in the coming months.

Newsletter Committee:
Caroline Moore, DVM, PhD
Jaclynn F. Andres, BS, PhD candidate
Sonika Patial, DVM, PhD, DACVP