



A Letter From The President

January/February 2016

Hello, KCVMA members. As 2015 has come to a close, 2016 is a fresh start. With the new year we have time to reflect on the previous year and plan changes for 2016.

2015 brought with it many lessons for our profession, including the consequences of not thinking carefully about the posts we make on social media. When Texas veterinarian Kristen Lindsey posted a photo showing herself holding a dead cat with an arrow through its head and proclaiming her first kill, the news spread worldwide. Though a grand jury declined to indict her, the Texas Board of Veterinary Examiners took action to revoke her license. The case now sits with the State Office of Administrative Hearing for further review. This is a lesson to all of us to think before we post, as social media can have grave consequences when we do not consider all of the possible repercussions and other points of view.

We had to say good bye to Dr. Richard Buchli, who passed away in December. He was the most senior life member of the KCVMA. Dr. Buchli is believed to be the youngest graduate of KSU's CVM, completing the program in 1943 at the age of 21. In 1947 he started Ace Veterinary Hospital (later Animal Medical Center) in Kansas City, MO, practicing with his wife Dorothy until they retired in 1982. Dr. Buchli was known for his expertise in acupuncture, performing it when the procedure was still considered controversial. He will also be remembered for his donations to the Missouri Veterinary Museum.

The World Health Organization is considering a request by China to change the DEA schedule of Ketamine to Control I, a move that according to the AVMA could impact access by U.S. veterinarians. We in the veterinary community know how crippling this could be if it occurs. The FDA collected comments on the issue and was to deliver a statement to the WHO Expert Committee on Drug Dependence (ECDD) during its November meeting. There is no further update as of this writing.

As your new president for 2016 here is a quick bio on me. I am a 1999 graduate of KSU. I worked in a small animal practice in southwest Missouri for five years. While there, I was a board member for the local animal shelter. Wanting to spread my wings, I became a co-owner of a small animal practice in the Kansas City area. As I receive greater satisfaction from practicing medicine than being the boss, I returned to being an associate veterinarian. Now, I am chief of staff at Banfield Pet Hospital in Independence.

KCVMA's first continuing education lecture of 2016 will cover ultrasound and will be held at Lidia's. Check the events tab on our website (www.KCVMA.com) for further information. This year we will continue our focus on quality continuing education for our members. I also look forward to seeing you at our upcoming networking events.

Donna Romanzi, DVM
President - dromanzi@kcvma.com

It's Time to Renew Your KCVMA Membership!

As we reflect on 2015 and look forward to a new year, the KCVMA would like to express our appreciation for each of our members. Our goals as an organization are simple - to support and celebrate Kansas City-area veterinarians through continuing education and networking opportunities, and advocate on behalf of our members and our profession. Your membership in the KCVMA allows us to strive for the best quality speakers, venues and resources possible. Without you, the KCVMA wouldn't be what it is today.

Membership payments are due at the beginning of each calendar year. Please visit <http://members.kcvma.com> and follow the instructions provided to renew your membership for 2016. Remember – only dues-paid members may attend continuing education opportunities and social events. If you have questions about the renewal process please contact our website administrator (Darin Nadler, dnadler@kcvma.com).

Note to Life Members: Even though your membership is complimentary, we ask that you complete the renewal process. This critical step keeps you in our system as an active member. If you choose not to renew, we'll assume you no longer wish to be an active member and we'll remove you from our contact lists. If you would prefer to renew via email please feel free to contact Darin Nadler (dnadler@kcvma.com) or Wanda Geis (wgeis@kcvma.com).

Joint Replacement Research Translates Into Better Care for Animals and Humans

BY: JEN NIGRO

When Buddy, a high-powered hunting dog, started to experience knee joint failure after a torn ACL, his owner tried everything. Four surgeries later with no improvement, he turned to Dr. Jimi Cook at the University of Missouri. By then, Buddy could not put any weight on the injured leg and refused to eat. “A working dog has to go to work, it’s their mentality,” says Dr. Cook. “Because he was so debilitated the dog had just about given up. Other surgeons didn’t think a metal and plastic knee replacement would work for what he wanted to do, so we replaced Buddy’s whole knee with a biologic knee using osteochondral and meniscal allografts.” Eight years later, Buddy completed a successful field trial and hunting career. Meantime, Dr. Cook has taken his research and his biologic joints to the human side of orthopaedics, where he now helps human patients at The Mizzou BioJoint Center. Here, he uses the allograft technology developed in dogs to continue research aimed at “growing new joints” in the lab using a process called functional tissue engineering.

The process of functional tissue engineering of biologic joints begins inside MU’s Comparative Orthopaedic Lab, where researchers take a piece of cartilage tissue about the size of a pencil eraser, digest it and retrieve the cells. The retrieved cells are then expanded in cell culture using a special combination of growth factors over the course of a week or two. “The first growth factor we use makes the cells replicate. Then, we add a second group of growth factors that drive them to make cartilage,” explains Dr. Cook. A structure using 3D-printed synthetic bone is created, then the newly-grown tissue is poured around the bone structure into a mold created using the patient’s MRI or CT scans. “We then put the new joint into a bioreactor so we’re able to exercise the tissue in the laboratory, turning it into functional articular cartilage and bone with native properties of normal cartilage.” Four to six weeks later, it’s ready for implantation. The process is still awaiting FDA approval in humans, but Dr. Cook and his team hope to move to human trials in the next decade.

What sets this knee apart from the traditional metal and plastic knee is its use of natural tissue, which can come from a donor or the patient. “Metal and plastic, even in the best knee and hip replacements, doesn’t have normal range of motion, it doesn’t feel normal, and you’re not allowed to do normal things. With our BioJoints you can,” says Dr. Cook. In addition, the biologic joint actually improves over time, where metal and plastic joints begin wearing out from the day they’re placed. “The BioJoint will integrate to the patient’s own knee, hip, ankle or shoulder and actually adapt to the activities that you do,” notes Dr. Cook.

Of course, preserving the BioJoint tissues is one of the keys to making the procedure available and cost-effective. “For both the allografts and the engineered tissues, we’ve developed special preservation systems that allow us to store the tissue much longer and at a higher quality so we can make the grafts more available. This allows us to deliver higher-quality grafts to more patients,” notes Dr. Cook. “We’ve also developed instrumentation specific to the BioJoint techniques, both in veterinary and human procedures, so we can implant the tissues in a standardized and repeatable way.” This includes putting pegs on the surface of the synthetic bone portion of the implant to help guide it into place. “Currently, we are the only center doing this type of biologic joint replacement to this level, where we can replace entire sections or even the whole joint in some cases. But developing these preservation and instrumentation systems will allow us to eventually make this available anywhere in the world.”

Despite its benefits, the cost of obtaining donor tissue for the BioJoint makes it unrealistic for widespread veterinary use. “On the human side, there are five major tissue banks that accept, screen and preserve donated tissues and send them out all over the country. There’s no one doing that in veterinary medicine.” That’s one reason Dr. Cook has moved his work from the veterinary field to the human field. “On the veterinary side, we look for those special stories or that special owner, someone contacting me. We do it out of the goodness of our hearts because we care about dogs and cats and horses, but we actually lose money on it.” Instead, Dr. Cook sees it being most effective in younger human patients in whom metal and plastic joints would have to be replaced repeatedly throughout their lifetimes.

Dr. Cook and his team recently received two grants to continue their work in human patients, but he says animal patients will still benefit. “We used the animal models to get this to people, but because we used the dog to model people, we can bring it back and help dogs like Buddy. We have 80-90 canine patients running around the world that would have been euthanized if we didn’t have that translational research. It’s cool because we get funding to do it for humans, but then we can leverage that funding to make something that’s applicable to dogs as well.”

Dr. Cook says veterinarians who have a case they think could only be helped by biologic joint replacement can contact him at cookjl@missouri.edu to see if it may be possible for them.

Research Project Lets Veterinarians Get Their Hands Around Complicated Cases

BY: JEN NIGRO

What do interior architecture and product design have to do with diagnosing and treating veterinary patients? It turns out, a lot. Researchers in Kansas State University's College of Architecture, Planning and Design are teaming up with the Veterinary Health Center to help veterinarians wrap their hands around complicated patient issues through the use of 3D printing.

The project, "3D Printing Animal Bone Fractures through Experimental Applications in Digital Fabrication", is spearheaded by Kelsey Castinado, a fourth-year student in the College of Architecture, Planning and Design. She is majoring in Interior Architecture and Product Design (IAPD), which she describes as a combination of interior design and architecture. Castinado is studying under the guidance of assistant IAPD professor Dustin Headley, who was in the early stages of his research when he and Castinado started working together in the product design studio. "My research looks at the potential applications and collaborations that can be developed from different professions as they start to align with the design profession," he explains. "This work looks at connecting and collaborating with veterinary medicine in exploring the applications of 3D printing in some of the diagnostic medical cases." Castinado thought the project sounded interesting and asked Headley to mentor her through the school's Developing Scholars Program, which pairs underrepresented students with faculty members on research projects.

Castinado set to work obtaining CT scans from Dr. Walter Renberg, an orthopaedic surgeon, professor and head of small animal surgery at the VHC. "A CT scan is essentially just a bunch of chopped up pieces, so what I would do is take that from the program that reads CT scans and turn that into a 3D image," says Castinado. "When you turn a CT scan into a 3D image you have to isolate whichever part of the CT scan you are trying to read." For example, a CT scan taken of a patient with a fractured leg might show the leg from the hip down. Castinado's job is to isolate the injury and get it into scale before converting it to 3D and printing the model.

Castinado started by working with past cases, but her work has progressed to use in the clinical setting. "I recently worked on a case with Dr. Renberg involving a small dog with a rotated ulna," says Headley. "We 3D printed the part and he was able to hold the problem in-hand. He immediately started breaking things apart and then visually planning the entire surgical procedure." Thanks to the 3D image, Dr. Renberg was able to determine the rotation was not as traumatic as he originally thought and perform a simpler procedure that

was less invasive and less expensive. Dr. Renberg says other applications aren't far behind. "We've also looked at it in some fracture models and some tumor cases, such as maxillary or mandibular tumors, where resection is going to be tricky. It helps to really define the borders of the pathology," he notes. "We're still working on using it to evaluate soft tissue cases such as lung tumors or portocaval shunts. If we can remodel and structure the vasculature and correlate the tumor growth or tumor extent with where the major vessels are then I think that will be of tremendous value to us."

3D printing technology has also proven useful in a teaching environment. "We're working on an intubation model because they can do some printing with harder or softer material," says Dr. Renberg. "We're also looking at some palpation aids, like a fetal palpation model, as well as possibly some anatomic specimens for the freshmen. Ultimately, the visionaries amongst us would say there are all sorts of possibilities on the horizon that would include custom-made prostheses or regenerated laboratory-engineered organs." Headley says collaborations like this also help improve students' ability to see how work in one field can be applied in other fields. "The work we're doing is really looking at how we can use technology to blur the boundaries between professions to create students that are much worldlier than previous generations have been able to produce."

Headley estimates using a 3D print would add about \$20-40 dollars in materials cost, plus time in developing the model onto the cost of treating a patient; a small price to pay, he says, to reduce stress on the animal and the overall cost of the procedure. Dr. Renberg agrees. "We're better able to decide what to do and how to do it. There have also been a couple of cases where we looked at it and were able to decide whether surgery was even indicated."

The use of 3D printing in veterinary medicine is not currently widespread, though Headley is in the process of developing an inter-session course on 3D printing at K-State for beginners and non-designers to learn how it pertains to their profession. It's similar to a session he presented recently at the Industrial Designers Society of America (IDSA) Medical design conference on translating CT scans into 3D printable geometries. "I think, looking forward, this is going to be something that can be very transformative to the profession," he says. "And, it's not limited to veterinary medicine. I'm doing research with food science, sociology, anthropology and biology. All of this integrates the technology and design into the research trajectory of the other discipline."

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All suggestions and comments are welcomed.
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Built on the Shoulders of Veterinary Giants: We've Always Had Fun

BY: DR. STEVE JOSEPH, KCVMA HISTORIAN

Social activities have kept our members connected over the decades. Here are a few remembrances.

No one will forget summer barbecues featuring the cooking of chefs Roy Davis and Ken Huggins. Highlights included canoe races around the Davis pond. During one such race, Waybern Yates and Joe Howard tried to corner a snake and jumped into the water only to be met by the slithering varmint. Joe was a little worse for wear when the snake took a bite of him. Joann Burns wouldn't settle for anything less than first place in another annual race. She jumped into the water and swam to shore. Several times KSU and MU deans kept the honor of their respective colleges by racing. Paddles were frequently used to upset the leader. Bending the rules was permitted.

Water always made for fun as evidenced by Steve Smith's written tale of a canoe trip down a southern Missouri river in 1980. Names were changed to protect the identity of the participants. One spouse parked the couple's jeep in the river, reportedly following a "discussion". There were more events that will be saved for a later article. Steve ended his review by writing, "It's a good thing we don't do things like this anymore. Someone could be injured or worse...humiliated in front of his or her colleagues. Still the memories remain...PRICELESS!"



In the 1980s Executive Secretary Linda Joseph organized several yearly Christmas parties. One event was held at the Agriculture Hall of Fame. A catered dinner was followed by a quartet concert. Two gatherings were held at Longview Farms. They were spectacular. R.C. Ebert gave a memorable blessing. Another time, a cowboy poet entertained a large crowd. We honored Jerry and Judy Johnson for their service to veterinary medicine. These events were followed by a tour of Christmas decorations in the mansion and barns. Another year we partied at Lake Quivira where the late accordionist Don Lipovac (Polka King of Kansas City, KS) brought down the house with renditions of KSU and MU fight songs.

At one time meetings were held at the Ramada Inn in east Kansas City. Veterinarians held continuing education and business meetings while spouses met for auxiliary meetings. During one of these meetings an announcement was made for George Gates to handle a minor emergency. He was nowhere to be found. Seems he was playing hooky in the lobby, sharpening his gambling skills for a later Association casino night.

In recent years we've gone to the Swope Park Zoo, toured Shatto Dairy, attended dinner theater plays and sporting events and more.

These are a few KCVMA social nights that will long be recalled.

CONTINUING EDUCATION EVENTS

January CE

Speaker: Brian J. Huber, DVM, ABVP
 Topic: Utilization of Ultrasound in Everyday Veterinary Practice
 Date: Thursday, January 21, 2016
 Time: 6:30pm – Dinner and Registration, 7pm – Presentation
 CE: 2 hours
 Fee: No fee to attend this event, but RSVP is required by Monday, January 18th. Current membership dues cover all CE.

Location: Lidia's Kansas City
 101 West 22nd Street
 Kansas City, MO 64108
 Sponsor: Oncura Veterinary Partners



Please register at <http://bit.ly/Jan2016KCVMA>



Brian Huber has acquired over 25 years of experience in the practice of small animal veterinary medicine and the business of animal health. His experience has dealt with advanced medical and diagnostic therapies and investigational products/devices. He has had the opportunity to work with veterinarians from across the U.S and Canada.

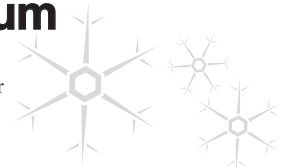
A graduate of Kansas State University's, College of Veterinary Medicine 1986, he is a founder/partner of the Animal Hospital of Rowlett & Diagnostic Center, founded in 1988, and a founder/partner of the Animal Hospital of Heath, founded in 2005. His practice has been an AAHA certified hospital since 1990. He has been certified by the American Board of Veterinary Practitioners in the canine and feline specialty, since 1996.

Dr. Huber is the president and founder of Oncura Partners, an online cancer management system for small animal practitioners, founded in 1999.

10th Annual Frostbite Continuing Education Symposium

Date: Sunday, February 21, 2016
 Time: 8:00am - 3:00pm
 Fee: Seminar and parking are complimentary, thanks to several generous partners.

CE: 5 Hours
 Location: Overland Park Convention Center
 6000 College Blvd.
 Overland Park, KS 66211



TIME	RM.	TOPIC	SPEAKER
8:00am – 8:30am	Registration; Meet with Sponsors; Continental Breakfast		
8:30am – 9:05am	A	The Evolution of GDV: Sorcery, Prognosis, and Prevention	Heather Millard
	B	Corneal Ulcer. Now What?	Susan Keil
	C	Managing Anesthetic Complications	Ryan Bragg
9:10am – 9:45am	A	Use of Patient Signalment in the Diagnosis of Neurologic Disease	Brian Cellio
	B	Worst Case Scenario: Is Your Practice Prepared for Disaster?	Kim Gugler
	C	Exotics: What's Your Diagnosis?	Teresa Bradley-Bays
9:45am – 10:15am	Snack Break and Meet with Sponsors		
10:15am – 10:50am	A	The Rational Use of Antacids	Crystal Hoh
	B	Minimally Invasive Surgery – Concepts and Benefits	Kurt Hazenfeld
	C	Hot Topics in Veterinary Ophthalmology	Heather Kaese
10:55am – 11:30am	A	New Approaches to Detecting and Treating Bone Loss in Periodontal Disease	Susan Crowder
	B	It Might Be Cancer: Common Paraneoplastic Conditions	Heather Heeb
	C	Leptospirosis: What's New?	Stephanie Pierce
11:35am – 12:10pm	A	Technicians are the Next Profit Center	Chris Morrow
	B	Treating Diabetic Ketoacidosis	Heather Gill
	C	The Power of Allergen - Specific Immunotherapy	David Senter
12:10pm – 1:45pm	Break and Lunch with Sponsors		
1:45pm - 2:20pm	A	Rehabilitating Cruciate Injuries	Connie Schulte
	B	Panel Discussion: Topics in Endocrinology	Jeff Dennis
2:25pm - 3:00pm	A	Does this Fracture Need Surgery	Ralph Millard
	B	Panel Discussion: Topics in Endocrinology	Jeff Dennis

CLASSIFIED ADS

Send your classified ads to: Wanda Geis, PO Box 12468, Shawnee Mission, KS 66282-2468, or email them to classifieds@kcvma.com. Ads must not be over 100 words in length. Classified ads will be run at the sole discretion of the editor and may be edited for content. Deadline for the next newsletter is 2/13/16.

Lionsgate Pet Hospital is seeking a DVM to join our small animal practice in southern Johnson County. Salary and benefits commensurate with experience. Please send resume to lionsgatepet@sbcglobal.net.

Small animal practice building for sale in Olathe, Johnson County, KS. Has housed flourishing, very profitable and well-known veterinary practices since 1965 with grooming/boarding capabilities and large exercise yard. Current veterinary practice tenant is moving and this well-established veterinary practice location would be ideal for a new small animal practice, a satellite location for another practice and/or for grooming or boarding/pet day care center. Please contact Montgomery and Company Real Estate, Bob Montgomery at 913-980-8278 or Tim Golba at 913-579-8647. <http://montgomeryandcompany.com>.

Animal Medical Center in South Kansas City (Waldo/Brookside area) is looking for a veterinary technician or assistant to join our team. Looking for full-time or part-time, must be willing to work 2-3 Saturdays a month, certification not required. Experience is preferred but will consider a less-experienced assistant if you are the right fit. Looking for someone with a positive attitude who enjoys people and a loud, busy environment. Please call Kyle at 816-333-9000 or email AnimalMedicalCenterKC@gmail.com.

The Humane Society of Greater Kansas City is looking for a medical director to manage our clinical department. This full-time position will lead a team of veterinarians and support staff providing services to the public through our busy outpatient clinic and spay/neuter program. The position will also oversee veterinary practices in our shelter and at KCK animal control. We are looking for a veterinarian with prior management experience. Experience working in a high-volume practice or animal shelter setting is a plus. For more details contact CEO Kate Fields at kate@hsgkc.org. For more information, visit our website – www.hsgkc.org.

Looking for full-time veterinarian for our AAHA accredited small animal hospital in Olathe. Experience or interest in surgery preferred. Team player, flexible and committed to customer service and best medicine. Will be joining a team with lots of longevity and great sense of humor. Salary based on experience. Please email resume to blackbob2255@sbcglobal.net or fax to (913) 764-6819.

Our busy small animal practice in western Shawnee is seeking a full-time registered veterinary technician. Must have clinic experience and be willing to work Saturdays. The right person will be friendly and confident, as well as comfortable speaking with clients. Please send full resume by email or in person to: Animal Care Clinic, 5576 Hedge Lane Terrace, Shawnee, KS 66226.

RELIEF VETERINARIANS...

Jerome Berkowitz.....913-515-3917 KS/MO	Shelley Lake.....913-533-9905 KS	Dennis Smith913-636-4206 KS
Martin Drey.....785-218-9484 KS	Chris Lewis.....702-767-8012 KS	Paula Vale913-484-7012 KS/MO
Beth Foster.....785-447-0806 KS	Tiffany Lewis321-332-4949 KS	Kenneth VanSickle.....816-331-7972 KS/MO
Marsha Heeb.....785-331-2167 KS/MO	Tim Lyon.....913-333-7535 KS/MO	Dennis Weaver.....816-210-6769 KS/MO
Carol Hinton913-897-2794 KS	Mary S. (Peggy) Roth.....785-748-0055 KS/MO	

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