

**Date:** June 28 – June 30, 2013 (Pre-Symposium Lab, June 26 – June 28)  
**Location:** Hamilton Park Hotel and Conference Center, Florham Park, New Jersey  
**Target Audience:** Veterinarians, veterinary technicians, physical therapists, and other veterinary rehabilitation practitioners.  
**Educational Credits:** 3.5 total contact hours per workshop; 17.5 total contact hours for pre-symposium workshop; additional credits for lectures. Certificates of attendance will be awarded.

## PRE-SYMPOSIUM PREREQUISITES & COURSE DESCRIPTION

(17.5 contact hours)

### Advanced Manual Therapy for the Canine Spine

**Instructor:** Laurie Edge-Hughes, BScPT, MAnimSt (Animal Physio), CAFCI, CCRT

**Prerequisites:** This 2.5-day advanced course is open to Veterinarians and Physical Therapists (PTs) who have successfully completed the *Therapist Module* through the Canine Rehab Institute, to Vets and PTs who have completed the *Head to Tail* course through the University of Tennessee's CCRP program, PTs with animal rehab training and a background in manual therapy, or others by special permission based on review of the applicant's previous coursework and experience.

**Course Description:** Through lecture and lab, participants will be led through a detailed evaluation of the canine spine from a mechanical perspective. Manual therapy concepts and evidence-based rationale for treatment selection are covered in depth. An integrated model for dealing with spinal mechanics will be covered, including force closure, form closure, and motor control and timing for the neck, back, pelvis and ribs. Instruction in spinal biomechanics, detection of spinal dysfunctions, and how to manually treat (via mobilization techniques) the spinal system will be covered. Participants also learn to test musculoskeletal control of the spine and how to prescribe therapeutic exercises that target fine motor control and core stability. Pain control concepts and resolution of maladaptive postures are also addressed.

## WORKSHOP DESCRIPTIONS & OUTLINES

(3.5 contact hours per workshop)

### Manual Techniques for the Treatment of Sports-Related Injuries

**Instructors:** Ria Acciani, MPT and David Acciani, PT

**Workshop Description:** *Manual Techniques for the Treatment of Sports-Related Injuries* provides participants with a working knowledge of evaluation skills to assess 2 sports related injuries; medial shoulder instability (MSI) and iliopsoas strain. The focus includes the ability to utilize manual techniques to effectively treat clinical objective findings that stem from these soft tissue and sports-related injuries. The development of treatment plans and return to sporting activities will also be highlighted.

#### Learning Objectives

Participants will:

- Gain a solid understanding of the functional anatomy of the shoulder and hip
- Be able to conduct a subjective and physical exam of the shoulder and hip needed to determine sports-related injuries; specifically for MSI and iliopsoas strain
- Learn the common areas of muscular restriction and joint hyper/hypomobility that can be associated with MSI and iliopsoas strain
- Understand and be able to properly execute advanced manual techniques to effectively treat objective findings associated with soft tissue injuries
- Better understand the development and progression of treatment plans for these injuries

### Manual Techniques for the Treatment of Sports-Related Injuries – cont'd

## Course Outline

**Lecture:** Evaluation/Assessment of the shoulder and hip

- Quick review of anatomy of shoulder and hip
- Review of joint mechanics and gait abnormalities
- Outline pathology and mechanism of injury of MSI and iliopsoas strain
- Discuss special tests and goniometric measurements
- Outline possible objective findings and present common subjective complaints
- Describe assessment of soft tissue and common findings associated with MSI and iliopsoas strain
- Treatment plan development, progression, and return to sporting activities

**Lab:** Special tests and goniometric measurements for assessment of soft tissue injury of the shoulder

and

hip

- Demonstrate special tests for MSI and iliopsoas strain
- Demonstrate goniometric measurements of shoulder for MSI

**Lab:** Physical assessment techniques for identifying soft tissue injury in the shoulder and hip

- Demonstrate soft tissue palpation of hip and shoulder, identify joint hypo/hypermobility
- Palpation techniques to identify MSI
- Palpation techniques to identify iliopsoas strain

**Lab:** Advanced manual techniques

- Demonstrate specific manual techniques emphasizing proper hand placement, direction of force and proper grade applied to achieve desired results

## Joint Mobilization for Evaluation and Treatment

*Instructors: Ria Acciani, MPT and David Acciani, PT*

**Workshop Description:** *Joint Mobilization for Evaluation and Treatment* introduces participants to the concept of joint mobilization as it pertains to the canine patient. Lecture, demonstration, and guided lab practice allows the practitioner to gain efficiency in evaluating and treating joint restrictions of the forelimb, hindlimb, and spine. A solid understanding of canine anatomy and manual skills is highly recommended.

### Learning Objectives

Participants will:

- Gain basic knowledge of the principles of joint mobilization for evaluation and treatment purposes
- Learn safety precautions as well as indications and contraindications of joint mobilization techniques
- Gain basic knowledge of joint biomechanics of all joint types
- Have a working knowledge of basic application of joint mobilization techniques for a variety of diagnoses
- Learn specific joint mobilization techniques that will provide immediate skills to use within their practice

### Course Outline

**Lecture:**

- Introduction to joint mobilization and principles
- Indications/contraindications/safety
- Review joint arthrokinematics

**Lab:**

- Assessment of normal joint range of forelimb and hindlimb
- Palpation of bony landmarks and proper hand placement

**Lecture:**

- Specific joint mobilization techniques of the forelimb
- Forelimb indications/contraindications

**Lab:**

- Practice hands-on techniques and direct application of joint mobilization to the forelimb

## Joint Mobilization for Evaluation and Treatment – cont'd

**Lecture:**

- Specific joint mobilization techniques of the hindlimb
- Hindlimb indications/contraindications
- Introduction to spinal mobilization

**Lab:**

- Practice hands-on techniques and direct application of joint mobilization to the hindlimb and spine

**Questions & Answers, Wrap up**

## Biomechanics of Bracing and Clinical Application of Orthopedic Devices

**Instructor:** *Caroline Adrian, PhD, PT, CCRP*

**Workshop Description:** *Biomechanics of Bracing and Clinical Applications of Orthopedic Devices* will focus on the biomechanical design of various types of orthoses and the importance of brace selection as an alternative to surgical management and/or as a support for post-surgical cases. Orthoses include hinged stifle braces, carpal, and tarsal orthoses, prostheses, and hip and shoulder support systems.

### Learning Objectives

Participants will:

- Understand biomechanical design as it relates to canine orthoses and compare/contrast current designs on the market
- Learn indications for orthoses and orthopedic devices, brace selection from a biomechanical perspective, casting and fitting techniques, donning schedules, and potential complications
- Understand the basic principles of various orthopedic devices used in sports medicine and rehabilitation
- Obtain contact information and costs for a variety of orthopedic devices from vendors present during the workshop

### Course Outline

**Lecture:**

- Biomechanics of bracing:
  - Stifle joint
  - Hock joint
  - Carpal joint
- Prostheses
- Shoulder support systems
- Hind limb support systems

**Lab:**

- Casting and fitting demonstrations for stifle, carpal, and tarsal orthoses
- Participant casting and fitting practical experience for stifle, carpal, and tarsal orthoses
- Fitting demonstrations for hobbles, shoulder support systems, and carpal and tarsal wraps
- Clinical cases currently donning orthopedic devices available for demonstration and observation
- Devices from a variety of vendors available for demonstration and evaluation

## Selection and Treatment of Acupoints for the Non-Needling Practitioner

**Instructor:** *Laurie Edge-Hughes, BScPT, MAnimSt (Animal Physio), CAFCI, CCRT*

**Workshop Description:** *Selection and Treatment of Acupoints for the Non-Needling Practitioner* is designed to provide participants with the background theory of anatomical / westernized acupuncture and knowledge to confidently select appropriate points for each joint / region of the canine musculoskeletal system. Methods for acupoint stimulation (massage, laser, ultrasound, TENS, and microcurrent) will be highlighted.

## Selection and Treatment of Acupoints for the Non-Needling Practitioner – cont'd

### Learning Objectives

Participants will:

- Gain a basic understanding of the anatomical / westernized approach to acupuncture
- Be able to identify key acupoints for each joint or musculoskeletal region
- Be instructed in palpation of acupoints
- Understand how to stimulate acupoints without needling

## Course Outline

### Lecture: Background theory for acupuncture

- History of acupuncture
- Brief discussion on traditional Chinese medicine's approach to acupuncture
- Anatomical / Westernize acupuncture background
  - What are acupoints?
  - Direct stimulation / indirect stimulation
  - Acupuncture analgesia
  - Autonomic effects, local effects
  - Acupoint selection

### Lab: Palpating for acupoints – forelimb and neck

- Finding points
- Selecting points for the joint / region
  - Local and distal
  - Sympathetic / Parasympathetic switches

### Lab: Palpating for acupoints – hind limb and back

- Finding points
- Selecting points for the joint / region
  - Local and distal
  - Sympathetic / Parasympathetic

### Lab: Stimulation of points

- Manual stimulation
- Stimulation with modalities
  - Laser, ultrasound, TENS, microcurrent

## Physical Therapy Differential Diagnostics for the Lumbo-Pelvic-Hip Region

**Instructor:** Laurie Edge-Hughes, BScPT, MAnimSt (Animal Physio), CAFCI, CCRT

**Workshop Description:** *Physical Therapy Differential Diagnostics for the Lumbo-Pelvic-Hip Region* is designed to provide participants with the background theory and hands-on skills to confidently perform a physical assessment of the lumbo-pelvic-hip region in the dog. Physical therapy assessment skills and clinical reasoning will be highlighted.

### Learning Objectives

Participants will:

- Gain a functional understanding of lumbo-pelvic-hip region anatomy
- Be able to identify the pain-generating conditions, structures, and mechanisms for the lumbo-pelvic-hip region
- Be instructed in physical therapy clinical reasoning and physical tests to identify patho-anatomical and patho-functional conditions of the lumbo-pelvic hip region
- Better understand what physical finding may indicate the necessity for further diagnostic testing

## Physical Therapy Differential Diagnostics for the Lumbo-Pelvic-Hip Region – cont'd

### Course Outline

#### Lecture: Assessment of the canine lumbar spine, pelvis, and hip

- Review of anatomy and biomechanics of the lumbar spine, pelvis, and hip
  - Joint, soft tissue, and neural structures will be highlighted
- Discussion of the potential generators for pain in each of the 3 selected areas

- Subjective history and observations pertaining to lumbo-pelvic-hip region dysfunctions/lesions

**Lab:** Physical assessment techniques for differential functional diagnosis between muscle, disc, nerves, facet joints, for vertebra in the canine lumbar spine

- Techniques to identify key muscular weakness or myofascial trigger points
- Techniques to identify intervertebral disc disease, degenerative disc disease, or spondylosis
- Techniques to identify neural impingement or inflammation
- Techniques to identify facet joint hypomobility

**Lab:** Physical assessment techniques for differential functional diagnosis at the canine pelvis

- Techniques to identify form closure, force closure, and motor control dysfunctions at the sacroiliac joint

**Lab:** Physical assessment techniques for differential functional diagnosis of both soft tissue and joint issues at the canine hip

- Techniques to identify hip joint conditions such as canine hip dysplasia, Legg Calvé Perthes disease, and early or late stage osteoarthritis
- Techniques to identify soft tissue injuries such as muscle strains, tendinitis / tendinosis lesions, weakness, myofascial trigger points, and bursitis

## Myofascial Release and Strain Counter-Strain Techniques in the Canine Patient

**Instructor:** Charles Evans, MPT, CCRP

**Workshop Description:** *Myofascial Release and Strain Counter-Strain Techniques in the Canine Patient* is intended to enhance the manual skills of participants and increase the approaches that can be used in the clinical setting to help patients with soft tissue, joint, and energy problems.

### Learning Objectives

Participants will:

- Learn about the structure and function of fascia and how it relates to function and well being
- Learn the basis for myofascial release and strain counter-strain techniques
- Learn how to perform myofascial release and strain counter-strain techniques
- Be given handouts describing positioning and rationale for strain counter-strain techniques

### Course Outline

- Review the importance and structure of fascia in the body and the interaction of the fascia with the musculoskeletal and the nervous systems
- Discuss how the techniques of myofascial release and strain counter-strain can improve and speed healing, function, posture, and the movement of energy in the body
- Discuss the myotatic arc and its role in creating and maintaining muscle spasm and how these two techniques can help in relieving the condition
- Learn how to apply myofascial release employing an indirect technique using a three-level stacking procedure
- Learn how to apply the strain counter-strain techniques to any muscle group
- Develop a home program and instruct the client in the techniques

## Myofascial Release and Strain Counter-Strain Techniques in the Canine Patient – cont'd

- Course notes will include written descriptions of the positions for strain counter-strain concentrating on individual muscle groups and we will discuss how to use both techniques in conjunction with each other

### Lab

- Learn the myofascial indirect three-level “stacking” techniques with “hands on” approach
- Learn to maintain the fulcrum during myofascial release
- Learn the approach, positioning, and release for the strain counter-strain techniques
- With pictures, demonstration, and written descriptions, educate clients in how to perform these techniques at home

## Canine Aquatic Therapy (Pool and Underwater Treadmill)

**Instructors:** Petra Ford, PT, CCRT and Kristine Conway, DVM, CCRT

**Workshop Description:** *Canine Aquatic Therapy* participants will be able to apply hydrotherapy to a variety of conditions. Participants will also be able to identify contraindications and precautions to hydrotherapy. Participants will learn to develop an appropriate treatment plan using hydrotherapy. Participants will have the opportunity to work directly with dogs in the pool and two underwater treadmills.

### Learning Objectives

Participants will:

- Understand the properties of water and how they impact decision-making on use of hydrotherapy
- Be able to identify contraindications, precautions, and conditions that benefit from hydrotherapy
- Understand the pros and cons of swimming versus the underwater treadmill
- Be able to determine appropriate parameters and develop a program for a variety of diagnoses using hydrotherapy

### Course Outline

#### Lecture:

- Properties of water
- Aquatic equipment
- Aquatic therapy accessories
- Contraindications and precautions
- Therapeutic benefits of hydrotherapy
- Conditions treated with hydrotherapy
- Specific exercises

#### Lab:

- Demonstration of therapeutic use of pool and underwater treadmills
- Guided practical experience for participants using pool and underwater treadmills
- Participants will have an opportunity to develop an aquatic program for a variety of diagnoses and apply it in the lab

## Acute Neuro-Rehabilitation: Strategies for Promoting Plasticity in Small Animal Patients Following Neurosurgery, Saddle Thrombus, and Fibrocartilaginous Embolism (FCE)

**Instructor:** Amie Lamoreaux Hesbach, MSPT, CCRP, CCRT

**Workshop Description:** *Acute Neuro-Rehabilitation: Strategies for Promoting Plasticity in Small Animal Patients Following Neurosurgery, Saddle Thrombus, and Fibrocartilaginous Embolism (FCE)* will focus on the evaluation, rehabilitation, and management of the neuro-rehabilitation patient in the acute phase of recovery. Hands-on sessions will allow the practitioner to practice safe and appropriate treatment strategies and tactics for inpatient, home, and outpatient treatment settings. Additionally, attendees will participate in the implementation and progression of neuro-facilitation techniques for a 'patient case' as well as selection of appropriate assistive devices for acute neuro-rehabilitation patients.

### Learning Objectives

Participants will:

- Perform a function-focused rehabilitation evaluation appropriate for the acute neuro-rehabilitation patient
- Plan and implement treatment tactics and strategies appropriate for the acute neuro-rehabilitation patient in inpatient, home, and outpatient treatment settings

- Be exposed to neuro-facilitation techniques appropriate for the acute neuro-rehabilitation patient
- Utilize assistive devices and discuss the appropriate progression of use of such devices with the neuro-rehabilitation patient

### Course Outline

**Lecture:** The neuro-rehabilitation evaluation and introduction to the concept of plasticity

**Lab:** Function-focused neuro-rehabilitation evaluation

**Lecture:** Function-focused treatment planning for inpatient, home, and outpatient rehabilitation

**Lab:** Implementation of treatment tactics and progressions

**Lecture:** Assistive devices and progressions

**Lab:** Assistive device “fashion show”

**Lecture:** Neuro-facilitation theories and techniques

**Lab/Team Activity:**

- Patient case studies

## Can You Feel It? Sensory Re-Education and Desensitization Techniques for Small Animals

*Instructor: Amie Lamoreaux Hesbach, MSPT, CCRP, CCRT*

**Workshop Description:** Sensory loss and dysfunction as a result of amputation, trauma, upper or lower motor neuron injury, or congenital disorders can cause unfortunate sequelae, including non-healing wounds and further injury due to self-mutilation and disuse. *Can You Feel It? Sensory Re-Education and Desensitization Techniques for Small Animals* will focus on the evaluation and rehabilitation management of sensory loss and dysfunction in these small animal patients, including the use of manual techniques, home activities, modalities, and assistive and protective devices. Hands-on sessions will reinforce that which is discussed in lecture components of the workshop.

### Learning Objectives

Participants will:

- Be updated regarding the latest in the scientific literature on sensory loss and recovery as it pertains to small animal rehabilitation
- Evaluate sensation in the small animal rehabilitation patient
- Practice rehabilitation techniques for use with animal patients with hypoesthesia and hyperesthesia
- Create a rehabilitation program for animal patients with hypoesthesia and hyperesthesia, including activities appropriate for implementation at home

## Can You Feel It? Sensory Re-Education and Desensitization Techniques for Small Animals – cont’d

### Course Outline

**Lecture:** Sensory loss, sensory recovery, and phantom limb sensation in animals

**Lecture:** The sensory evaluation

**Lab:** The sensory evaluation

**Lecture:** Sensory integration, desensitization, and re-education treatment techniques

**Lab:** Treatment techniques

**Lecture:** The role of modalities in sensory integration, desensitization, and re-education

**Lecture:** Assistive devices, splints, and garments for protection of hypoesthetic and hyperesthetic areas and prevention of contracture and self-mutilation

**Lab:** Assistive device.

**Lecture/Team Activity:**

- Home programs and progressions

## Hands-On Canine Acupressure: Points that Heal

*Instructor: Amy Snow, Co-Founder, Tallgrass Animal Acupressure Institute*

**Workshop Description:** *Hands-On Canine Acupressure: Points that Heal* begins with a brief presentation explaining the origin of acupressure and its roots in Traditional Chinese Medicine. This presentation provides an understanding of meridians and acupressure points, or “acupoints,” and how they function as the “tools” of acupressure. The lab portion of this workshop covers four different hands-on acupressure techniques and their application using specific acupoints for the following canine conditions: pain relief, calming, emergent events, and “Surrounding the Dragon” point routines for major joints – hip, stifle, hock, shoulder, elbow, and carpus.

### **Learning Objectives**

Participants will:

- Learn the benefits of acupressure for dogs
- Gain an understanding of the basis of acupressure in Traditional Chinese Medicine
- Know the difference between acupressure and acupuncture
- Identify the distinction between the western and eastern approaches to acupressure
- Understand the contra-indications of using acupressure
- Learn how the meridian system functions in the dog’s body
- Understand how acupoints are used to influence the flow of energy and blood in the dog’s body
- Be able to apply four different hands-on acupressure techniques for various conditions
- Learn how to locate acupoints
- Address specific conditions using acupoints and hands-on techniques for pain reduction, calming, and major joint issues

### **Course Outline**

#### **Lecture:**

- Benefits of canine acupressure
- Overview of acupressure and Traditional Chinese Medicine
- How the meridian system and acupoints work
- When to use and not use acupressure
- The difference between acupuncture and acupressure
- Eastern and western approaches to acupressure

#### **Lab:**

- Four distinct hands-on techniques
- Tracing the Bladder Meridian
- Application of hands-on techniques for pain reduction/relief and calming
- Specific hands-on acupoint routines for major joints including – hip, stifle, hock, shoulder, elbow, carpus

## **Gait and Postural Changes – Can or Should we Intervene?**

**Instructor:** *Julia Tomlinson BVSc PhD, AVCS, CCRP, CVSMT, Dipl, American College of Veterinary Sports Medicine & Rehabilitation, Twin Cities Animal Rehabilitation Clinic*

**Workshop Description:** *Gait and Postural Changes – Can or Should we Intervene?* will be divided into a short lecture encompassing an overview of conformation of different dog breeds and a brief review of the basics of gait and posture. The lab will consist of subjective gait analysis in dogs using video. Dogs will be seen demonstrating all gaits and also performing certain tasks and sports (agility, Schutzhund, coursing, obedience). Dogs with normal and abnormal gaits will be observed. Posture of dogs present for the lab will be observed and critiqued.

### **Learning Objectives**

Participants will:

- Learn to observe various gaits and critique them
- Learn how to identify postural changes and to assign level of significance to them
- Evaluate and discuss video analysis (real-time and slow motion) of various orthopedic conditions and sports medicine injuries
- Learn and practice palpation techniques, isolation methods, and critical landmarks
- Observe and workup clinical cases with ‘unknown – open diagnoses’ of forelimb and hind limb sports-related injuries

**Videos may be submitted in advance by participants.**

**Participants should email [drjulia@tcrehab.com](mailto:drjulia@tcrehab.com) footage of interesting cases.**

### **Course Outline**

#### **Lecture**



- Introduction to conformation and posture
- Footfall patterns of basic gaits
- Common postural adaptations or abnormalities – toe-in, toe-out, kyphosis, lordosis, scoliosis, side sitting etc,
- Common gait adaptations or abnormalities – crabbing etc.
- Isolation of issues

### Lab

- Postural analysis with volunteer dogs, tips to correct static and dynamic issues, muscle imbalances and the nervous system
- Subjective video analysis (real-time and slow motion) of various gaits and speeds
- Subjective video analysis (real-time and slow motion) of various gaits and speeds on clinical cases with lameness
- Interactive discussion of gait for the above two subjects including treatment approach with 'after' videos
- Interactive discussion of participant-submitted cases

**Videos may be submitted in advance by participants.**

**Participants should email [drjulia@tcrehab.com](mailto:drjulia@tcrehab.com) footage of interesting cases.**

## INSTRUCTOR BIOGRAPHIES

### **Ria Acciani, MPT, David Acciani, PT**

Ria and David Acciani both hold graduate degrees in Physical Therapy. They are licensed physical therapists with over 20 years experience in human therapy, and have specialized in canine rehabilitation for more than 12 years. They own and operate *Advanced Canine Rehabilitation (ACR)*, a practice that focuses on the evaluation and rehabilitation of performance and sporting dogs. They also provide instructional seminars for handlers and their dogs on a variety of topics such as "Canine Stretching", "Strength and Conditioning", and "Structure Evaluation for the Canine Athlete". Ria and David are rehabilitation consultants for Dr. Sherman Canapp and the VOSM group, and have established the rehabilitation protocol for various shoulder and elbow conditions. They have published several articles in *Veterinary Surgery* and *Clean Run*, and have presented at the *International Rehabilitation Symposium* in 2008 and 2010. Topics included shoulder and elbow rehabilitation, and modalities. They also instructed at the *Symposium on Therapeutic Advances in Animal Rehabilitation* continuing education workshops in 2010, 2011, and 2012. Ria and David travel extensively to many regional, national, and international dog competitions, and work with top-level competitors. Ria was selected as Official Therapist for the IFCS US Agility Team, and traveled to Bristol, England with them in 2010. Both Ria and David returned to Bristol, England with the Team in 2011 and to South Africa in 2012. They will travel to Spain with the Team in 2013.

### **Caroline Adrian, PhD, PT, CCRP**

Carrie received her BS in Biology in 1994 from Allegheny College in Meadville, PA and her Master of Science degree in Physical Therapy from North Georgia College in 1999. She received her PhD in Canine Biomechanics, the first degree of its kind in the country, from Colorado State University, with a research focus related to electromyography and the canine cruciate ligament. She was among the first to be certified as a canine rehabilitation practitioner from the University of Tennessee. Carrie has participated in a number of

continuing education seminars on animal rehabilitation, both as a participant and lecturer since 1998, and has lectured nationally and internationally on the topic of veterinary rehabilitation. She is a contributor to several textbooks including *Canine Rehabilitation & Physical Therapy*, *Veterinary Clinics of North America*, and the *Clinical Textbook for Veterinary Technicians*. Presently, she serves as Vice President for the Animal Special Interest Group within the American Physical Therapy Association. Carrie is the Director of Rehabilitation Services for VCA Animal Hospitals and directs the Physical Therapy and Sports Medicine Department at VCA Veterinary Specialists of Northern Colorado in Loveland, Colorado.

### **Kristine A. Conway DVM, CCRT**

Dr. Conway graduated from Ross University School of Veterinary Medicine in 1989 and has been practicing at Hodes Veterinary Group since 1994. In 2006, while swimming her dogs, her interest in canine rehabilitation was piqued. Dr. Conway's clients, looking for alternatives to drugs to improve their pets' quality of life, further motivated her to seek an education in canine rehabilitation. She attended the University of Tennessee's fast track program for canine rehabilitation in July 2007. Shortly thereafter, she opened Aqua Dog Rehabilitation, LLC with Petra Ford, a local Physical Therapist and Certified Canine Rehabilitation Therapist. Dr. Conway completed the certification program at the Canine Rehabilitation Institute in 2011 and is a Certified Canine Rehabilitation Therapist. In her spare time, Dr. Conway enjoys hiking, mountain biking, running and swimming with her dogs to keep them in optimum shape for obedience, agility and schutzhund. Dr. Conway's dogs work hard at keeping her well trained.

### **Laurie Edge-Hughes, BScPT, MAnimSt(Animal Physio),CAFCI, CCRT**

Laurie obtained her degree in Physical Therapy (BScPT) from the University of Alberta in 1993. Following graduation, she worked in the intensive care unit at the Foothills Hospital (Calgary, AB) before practicing at a private physiotherapy clinic (Cochrane, AB). Her broad post-graduate education has been in the field of human and canine orthopaedics, including advanced assessment and treatment in spinal and extremity neuro-musculoskeletal conditions, postural stabilization, dynamic muscular stabilization, adverse neural tissue tension assessment and treatment, and osteopathic therapeutic techniques (i.e. muscle energy, craniosacral therapy, and functional indirect therapy). Laurie received her certification in medical acupuncture from the Acupuncture Foundation of Canada Institute. She also obtained special dispensation to practice spinal manipulations in the province of Alberta.

Laurie has always demonstrated particular interest in the field of animal physiotherapy. Early on in her career, she completed numerous courses offered by the Canadian Horse and Animal Physical Therapists Association (CHAP) in this field. She initiated her practice with animals in 1993, integrating her skills and knowledge in physical therapy and rehabilitation in humans with her passion for animals. Laurie founded Four Leg Rehabilitation Therapy (Cochrane, AB) in 1997, where she provided physical therapy services to animals and their owners in the greater Calgary area. Laurie currently practices animal physical therapy at The Canine Fitness Centre Ltd. (Calgary, AB), a facility she established in 2004 in partnership with Dr. Amalia Rossi Campos MVZ, MSc and Dr. Manuel Campos, MVZ, MSc, PhD.

Other accomplishments in Laurie's professional career include holding executive positions within CHAP since its inception. This association, which Laurie now chairs, is currently known as the Animal Rehab Division (ARD) of the Canadian Physiotherapy Association. Laurie has been very much at the forefront of the field of canine physical therapy, and taught the first courses in this field in Canada (1999), the United States (1999) and Australia (2001). She has created the curricula for the Canadian Diploma in Canine Rehabilitation for the Animal Rehab Division. Laurie also lectures with the Canine Rehabilitation Institute (CRI) in the USA, a canine physical therapy and rehabilitation certification program for veterinarians, physical therapists, veterinary technicians, and physical therapy assistants. Laurie holds a certification in Canine Rehabilitation Therapy (CCRT) from the same institute. Laurie has been an invited lecturer at the Second, Third, Fourth, and Fifth

International Symposia on Physical Therapy and Rehabilitation in Veterinary Medicine as well as at the Second and Third Annual Conference on Veterinary Physiotherapy at the Royal Veterinary College (London, England). Laurie is a guest lecturer for the continuing professional development program at the Royal Veterinary College (London, England), the Association of Chartered Physiotherapists in Animal Therapy (England), the Australian Animal Physiotherapy Group, the Animal Physiotherapy Group of South Africa, The Animal Rehab Special Interest Group of the USA and in 2005 & 2006 was a clinical tutor for the Master in Animal Studies in Animal Physiotherapy program at the University of Queensland (Brisbane, Australia). In 2006, Laurie received her Master in Animal Studies (Animal Physiotherapy) degree from the University of Queensland, Australia. Laurie has lectured at several physical therapy and veterinary medicine conferences, is a case examiner for the International Veterinary Association of Pain Management, and is a guest clinical skills instructor for the University of Calgary, Faculty of Veterinary Medicine.

### **Charles Evans, MPT, CCRP**

Charlie received his BS in Zoology from Kenyon College in Gambier, OH. He spent 8 years working as a veterinary technician until he returned to graduate school for his Masters degree in Physical Therapy from Notre Dame College in Manchester, NH in 2001. He has been involved in the evolving field of animal physical therapy since 1999. Before working full time in the animal field, Charlie worked in outpatient settings specializing in orthopedics and aquatic therapy. He was certified as a Canine Rehabilitation Practitioner (CCRP) in December of 2003. Since 2005, he has been employed full time as a CCRP first as the Director of Rehabilitation of the Dover Veterinary Referral Hospital and as Staff Physical Therapist at the Intown Veterinary Group in both Woburn, MA and Portsmouth, NH since 2007.

Other accomplishments include serving as the national liaison coordinator for the Animal Physical Therapy Special Interest Group, which is part of the Orthopaedic Section of the American Physical Therapy Association. He has published a study of canine gait analysis in the *Journal of Orthopaedic and Sports Physical Therapy* and presented the paper at the Second International Symposium on Physical Therapy and Rehabilitation in Veterinary Medicine.

### **Petra Ford, PT, CCRT**

Petra graduated from UMDNJ School of Health Related Professions with a degree in Physical Therapy and has experience working with an extremely varied caseload, from pediatric through geriatric clients with a vast range of diagnoses. Her areas of expertise include inpatient rehabilitation, orthopedics, and neurology. Petra attended the Canine Rehabilitation Institute in 2007 and is a Certified Canine Rehabilitation Therapist. Petra has written several articles on canine conditioning, canine injury prevention, competing with your dog, and more. She has been published in a number of magazines including *Clean Run*, *Front and Finish*, and *Whole Dog Journal*. Petra trains and trials her Labrador Retrievers in obedience, field work, and agility. Her black Labrador Retriever, Tyler, has the distinction of being the 2008 and 2009 National Obedience Champion and First Runner Up in 2010. In 2012, Petra and Tyler became the first American team to win the Obedience World Cup (they placed second in 2010). In her youth, Petra raced bicycles at the professional level and participated in international events. She is now an avid runner, competing in half marathons and she practices yoga.

### **Amy Snow, Co-Founder, Tallgrass Animal Acupressure Institute**

Amy is co-founder of Tallgrass Animal Acupressure Institute and author of numerous animal acupressure texts. She began her studies in Traditional Chinese Medicine in 1976 and has worked with dogs, cats, and horses since childhood. Amy studied at the International Institute of Traditional Chinese Medicine and the Acupressure Institute. Over the past 15 years, Amy has co-authored animal acupressure books including *Acu-Dog: A Guide to Canine Acupressure*, *Acu-Cat: A Guide to Feline Acupressure*, and *Equine Acupressure: A Working Manual*. Additionally, she contributes articles to publications in the US, Canada, Australia, and England. Amy teaches a 330-hour, hands-on practitioner certification training program for animal acupressure worldwide. She is Adjunct Faculty at Hocking College in Southern Ohio, a founding Board Member and Immediate-Past-Chair of the National Board of Certification for Animal Acupressure & Massage ([www.NBCAAM.org](http://www.NBCAAM.org)).

### **Julia Tomlinson BVSc PhD, Dipl. AVCS, CCRP, CVSMT,**

### **Dipl, American College of Veterinary Sports Medicine & Rehabilitation**

Dr. Julia Tomlinson earned her Veterinary Degree from the University of Liverpool, England in 1996. Her Masters degree in Diagnostic Imaging of the Equine Sacroiliac Joint is from the University of Minnesota and her PhD in Physiology is from North Carolina State University. She practiced in equine sports medicine and surgery prior to pursuing her interest in the canine field. She is board certified specialist in Veterinary Sports Medicine and Rehabilitation and a Veterinary Spinal Manipulative Therapist (animal 'chiropractic' equivalent).

Dr. Tomlinson owns Twin Cities Animal Rehabilitation Clinic in Minnesota, a busy stand-alone rehabilitation practice. She lectures nationally and is a consultant in musculoskeletal wellness for the pet food industry.

Dr. Tomlinson founded the American Association of Rehabilitation Veterinarians (AARV) in 2007 and is past president of that association. She is also a member of the Canine Sports Medicine Association and the International Veterinary Academy of Pain Management.

Dr. Tomlinson has a special interest in sports medicine, healthy aging, and management of chronic pain. She is a middle distance runner and has two spoiled dogs at home.