

# ACC RAC 2018 CONFERENCE SCHEDULE

InterContinental Dallas, Dallas, TX

## Competencies and Collaboration

(updated as of 02/16/18 – check back for further updates)

Continuing education credits will be available for most sessions. Doctors of Chiropractic may earn up to 14 continuing education hours pending your state board's approval. Continuing education credits are provided through Palmer College of Chiropractic.

### Thursday, March 8

8:00 am - 5:00 pm

ACC Working Group Meetings (closed meetings for ACC working groups)

Presidents –  
Admissions/Enrollment –  
Assessment and Accreditation –  
Chief Academic Officers –  
Chief Financial Officers –  
Clinic Directors –  
Institutional Advancement/Development –  
Librarians –  
Post Graduate –  
Research Directors –  
Student Affairs –

6:00 pm - 7:30 pm – Crystal Ballroom Foyer

Welcome Reception - *Sponsored by Standard Process, Inc.*

All attendees are invited to join

### Friday, March 9

7:00 am - 8:00 am – Crystal Ballroom Foyer

Continental Breakfast

8:00 am - 8:10 a.m. – Crystal Ballroom I - V

#### Opening Plenary Session

Opening of the ACC RAC 2017 Conference – Introductions and Welcome  
Michael Ciolfi, DC – Dean, University of Bridgeport, College of Chiropractic  
(ACC Vice-Chair)

8:10 am - 8:50 am – Crystal Ballroom I - V

**Competencies and Collaboration**

**A Report from the Eastern Front: What Lies Ahead for Private Higher Education?**

**Keynote Speaker: David Warren, PhD**  
President, National Association of Independent Colleges and Universities

Dr. Warren is one of the most widely respected leaders in higher education. He has lead NAICU for a quarter century through the changing educational environments and championed student as well as institutional interests.

Dr. Warren will update attendees on the latest congressional legislation and regulations effecting students and education.

**Transforming Health Care by Exploring New Models of Collaboration**

**Keynote Speaker: Tracy Gaudet, MD**  
Veterans Administration, Office of Patient Centered Care and Cultural Transformation

Dr. Gaudet is a transformational leader in health care. She is an advocate for integrating collaborative efforts within the VA health care system with remarkable success.

Learn about the recent initiatives that are changing team health care for patients.

**8:55 am - 9:55 am – Crystal Ballroom I - V**

**Advancing Patient Safety Research through Collaborations**

This diverse panel of speakers passionate about patient safety will share best practices from their experience. In particular, organizational culture conducive to the development of patient safety innovations and the early adoption of patient safety values in teaching institutes will be explored. The panelist will conclude with a discussion on why patient safety needs to be directly addressed by self-regulated healthcare professions and how it can be done in the vast jurisdictions and practice settings that doctors of chiropractic are involved.

**Moderator: Katherine Pohlman, DC, MS, DICCP - Clinician Research Scientist & Assistant Professor**

**Panelist: Thomas Diller, MD - Executive Director of UNTHSC's Institute for Patient Safety**

**Panelist: Kristian Poitier, RN , MBA, MHSM – Corp. Director of Patient Safety & Clinical Risk Mgmt, Tenet Healthcare Corp.**

**Panelist: Maeve O'Beirne, MD, PhD - Family Physician and Patient Safety Expert in Ambulatory Care Settings**

**Panelist: Silvano Mior, DC, PhD – Director of Research Partnerships and Health Policy CMCC, SafetyNET Investigator**

**Panelist: Stacie Salisbury, RN, PhD – Assistant Professor, SafetyNET Co-Investigator**

**10:00 am - 10:30 am – Crystal Ballroom Foyer**

**Break - Sponsored by Standard Process, Inc.**

**10:30 am - 12:00 pm**

**Workshops**

Crystal Ballroom VI	Crystal Ballroom VII	Crystal Ballroom VIII	Lalique Ballroom I	Lalique Ballroom II
RESEARCH	EDUCATION	COLLABORATION	CLINICAL	ADMINISTRATION
<p><b>Improving Scientific Writing by Becoming a Better Peer-Reviewer</b></p> <p>It is ironic that in this time of evidence-based care the peer-review process remains largely opinion based. The purpose of this workshop is to make explicit for reviewers and authors what constitutes good, evidence-based reviewing. This will help current and prospective peer-reviewers achieve best practices in reviewing, and will provide clear benchmarks for authors to consider prior to submitting their manuscripts</p> <p><i>Stephen Perle Kent Stuber Brian Budgell</i></p>	<p><b>Talking the Talk – Evidence-Based Inter-Professional Communication</b></p> <p>Current trends in healthcare are moving toward interdisciplinary, patient-centered care. Faculty and practicing clinicians need to be able to model behaviors and communications to prepare students (and future colleagues) for multidisciplinary environments. One of the benefits of evidence-based clinical practice (EBCP) is that it creates a framework for inter-professional communication and collaboration. This workshop will build on the foundations of EBCP exploring the research base and developing talking points that are supportable.</p> <p><i>John Stites Barbara Mansholt Shawn Neff</i></p>	<p><b>Cultural Competency in the Academic Clinical Setting</b></p> <p>The chiropractic profession currently serves diverse patient populations across the United States and around the world. Because of this, and because of need to expand chiropractic utilization into new populations, it is imperative that DC students receive training and mentoring in cultural competency. Further, a critical part of this training process involves both faculty and institutions serving as role models of cultural awareness, cultural knowledge and cultural skill. While cultural competence is an expectation of professional and accreditation standards, fundamentally, the leadership of an institution must embrace cultural competency as a core values.</p> <p><i>Karen Bobak Lisa Bloom Kristina Petrocco-Napuli</i></p>	<p><b>Addressing the biopsychosocial influence on pain in clinical practice</b></p> <p>The objective of this workshop is to provide an overview of the biopsychosocial model of pain and introduce strategies for the chiropractic clinician to incorporate into a patient management plan. Recognition strategies, optimal patient-doctor communication, and active patient self-care approaches will comprise the tenets of this workshop curriculum.</p> <p><i>Jordan Gliedt Jeff King Michael Schneider</i></p>	<p><b>Enhanced Teacher Education through implementation of hybrid/online Faculty Development workshops</b></p> <p>This workshop will discuss different strategies for faculty development at different chiropractic institutions. In particular, the steps in creating and refining a faculty development program, as well as some of the successes and challenges will be discussed. Two different strategies for faculty development will be presented. The first is the hybrid delivery format of CMCC's Teacher Education Program and Faculty Development programs. The second is a model based on Diffusion of Innovation. Attendees will learn how to identify faculty resistance and how to implement changes, leading to increased adoption and higher quality.</p> <p><i>Scott Dunham Eric Russell Dana Lawrence</i></p>

12:00 pm - 1:30 pm – Crystal Ballroom I - V

Lunch - Sponsored by NCMIC Insurance Company

Announcement of the Jerry McAndrews Award

1:30 pm - 3:00 pm

**Scientific Contributed Platform Sessions**

Crystal Ballroom VI	Crystal Ballroom VII	Crystal Ballroom VIII	Lalique Ballroom I
RESEARCH	EDUCATION	EDUCATION	CLINICAL
<i>Moderator: ARNAULD LARDON</i>	<i>Moderator: TODD KNUDSEN</i>	<i>Moderator: ERIC RUSSELL</i>	<i>Moderator: DANA LAWRENCE</i>
<p>Paraspinal muscle function and pain sensitivity following exercise-induced delayed-onset muscle soreness</p> <p><i>Jacques Abboud, Catherine Pauze-Brodeur, Arianne Lessard, Martin Descaurieux</i></p> <p>The interpersonal process of care experience of parents with children attending chiropractic care</p> <p><i>Joel Alcantara, Jeanne Ohm, Junjoe Alcantara</i></p> <p>The construct validity of the PROMIS Global Health compared to the PROMIS-29</p> <p><i>Joel Alcantara, Jeanne Ohm, Junjoe Alcantara</i></p> <p>Construct validity of the PROMIS-29 compared to the RAND SF-36</p> <p><i>Joel Alcantara, Jeanne Ohm, Junjoe Alcantara</i></p> <p>Examining medical claims data on the utilization of chiropractic services vs primary care for treatment of neck pain to determine risk of treatment escalation- Results from a pilot study</p> <p><i>Brian Anderson, Steve McLellan</i></p> <p>Prevalence and psychological risk factors on musculoskeletal disorders in the french chiropractor population: a cross-sectional study</p> <p><i>Florian Barbier-Cazorla, Carole Castanier, Martin Descarreaux, Arnaud Lardon</i></p>	<p>Clinical accuracy of orthopedic tests used in a chiropractic college health center</p> <p><i>Steve Agocs, Mark Pfefer, Dani Steffen, Nathan Hoover, Rachel Gilmore, Jackson Berg</i></p> <p>Globalized Media and Bias Toward Chiropractic and Stroke in Google News SERP: Comparative Analysis for 2015 and 2016</p> <p><i>Mohammed Al-Azdee, Stephen Perle, Srishti Puri</i></p> <p>A survey of chiropractic students' extracurricular professional development activities and plans</p> <p><i>Matthew Funk</i></p> <p>Comparison of chiropractic lexicon at two chiropractic institutions: a cross-sectional study</p> <p><i>Brian Gleberzon, Katherine Pohlman, Eric Russell</i></p> <p>Does faculty demonstration of clinical skills impact student performance on a clinical examination in a chiropractic program?</p> <p><i>Joseph Guagliardo</i></p> <p>Training chiropractic students in weight management using standardized patients</p> <p><i>Cheryl Hawk, Michael Ramcharan, Carla Kruger</i></p>	<p>Got Stress? A descriptive study of chiropractic students' stress and confidence levels in years 1, 2 and 3</p> <p><i>Judy Bhatti, Elissa Twist, Josh Bernstein, Dustin Derby, Katherine Manley-Buser</i></p> <p>Transitioning clinic systems for effective tobacco use identification and treatment referral</p> <p><i>Kelly Buettner-Schmidt, Donald Miller, Brody Maack, Mary Larson, Megan Orr, Becky McDaniel, Katelyn Mills</i></p> <p>Comparing a traditional lecture course to an inverted classroom format for clinical microbiology: student performance and perception</p> <p><i>Kara Burnham, James Mascenik</i></p> <p>Perceptions of Ontario Chiropractors on Business Education in Chiropractic Schools</p> <p><i>Michael Ciolfi, Ayla Azad, Mohammed Al-Azdee</i></p> <p>Leading factors contributing to dietary choices in chiropractic students</p> <p><i>Katrine Colton, Lia Nightingale</i></p> <p>The role of trust on the success of interorganizational collaborations in health care education</p> <p><i>Renee DeVries</i></p>	<p>Antimicrobial properties of and clinical indications for monolaurin: a review of the literature</p> <p><i>Lisa Barker, Barclay Bakkum, Cynthia Chapman</i></p> <p>An overview of the medical specialties most relevant to chiropractic practice</p> <p><i>Lauren Austin-McClellan, Anthony Lisi</i></p> <p>Chiropractic care for TMJ and extreme tongue fatigue: A case report</p> <p><i>Thomas Bloink, Charles Blum</i></p> <p>Chiropractic care of a rock climber's shoulder with FHP (forward head posture): A case report</p> <p><i>Charles Blum</i></p> <p>Change in female veterans' neck pain following chiropractic care at a hospital for veterans</p> <p><i>Kelsey Corcoran, Andrew Dunn, Bart Green, Lance Formolo, Gregory Beehler</i></p> <p>The quality of life of pregnant patients under chiropractic care: a retrospective file review</p> <p><i>John Edwards, Joel Alcantara, Allison Union</i></p>

3:00 pm - 3:30 pm – Crystal Ballroom Foyer

Break - Sponsored by Performance Health/Biofreeze/Thera Band

3:30 pm - 5:00 pm

Scientific Contributed Platform Sessions

Crystal Ballroom VI	Crystal Ballroom VII	Crystal Ballroom VIII	Lalique Ballroom I
CLINICAL	EDUCATION	EDUCATION	CLINICAL
<p><b>Moderator:</b> <b>MICHELLE MAIERS</b></p>	<p><b>Moderator:</b> <b>KAT LINAKE</b></p>	<p><b>Moderator:</b> <b>JOHN MROZEK</b></p>	<p><b>Moderator:</b> <b>KATHERINE POHLMAN</b></p>
<p>Biological and clinical outcomes of chiropractic spinal manipulative therapy in the treatment of patients with acute inflammatory radiculopathy secondary to lumbar disc herniation: A pilot study</p> <p><i>Paul Bishop, Jeffrey Quon, John Street, Brian Arthur, Melissa Nadeau, Tamir Allon, Nicolas Dea, Charles Fisher, Marcel Dvorak, Scott Paquette, Brian Kwon, Gabriella Petrolinni</i></p> <p>Sagittal spinal kinematic evaluation comparing internal frame and frameless backpacks during walking</p> <p><i>Lori Beth Bryson, Jonathan Bryson, Brent Russell, Ronald Hosek</i></p> <p>Spinal manipulative therapy for the management of low back pain: A guideline from the Canadian Chiropractic Guideline Initiative</p> <p><i>Andre Bussieres, Gregory Stewart, Fadi Al Zoubi, Philip Decina, Martin Descarreaux, Danielle Haskett, Cesar Hincapie, Isabelle Page, Steven Passmore, John Srbely, Maja Stupar, Joel Weisberg, Joseph Ornelas</i></p> <p>The effects of chiropractic care on oculomotor control in children with attention deficit hyperactivity disorder: A pilot study</p> <p><i>Alice Cade, Kelly Jones, Kelly Holt, Abdul Moiz Penkar, Fady Alnajjar, Heidi Haavik</i></p> <p>The medium-term effect of spinal manipulative therapy for chronic obstructive pulmonary disease: a randomized controlled trial</p> <p><i>Roger Engel, Peter Gonski, Subramanyan Vemulpad, Petra Graham</i></p> <p>Chiropractic care alters TMS induced I-wave excitability and cortical silent period duration</p> <p><i>Heidi Haavik, Imran Khan Niazi, Jens Duehr, Muhammed Samran Navid, Fady Alnajjar, Kemal Turker</i></p>	<p>Students' perceptions of paper testing vs. computer testing and real test results between two methods</p> <p><i>Shawn He</i></p> <p>Longitudinal tracking of program goals for improved curriculum alignment</p> <p><i>Dennis Homack</i></p> <p>Relationship evolution between chiropractic and the American Public Health Association: An analysis of 90 years of APHA literature</p> <p><i>Claire Johnson, Bart Green</i></p> <p>Development of a public health model and educational tool for chiropractic</p> <p><i>Claire Johnson, Bart Green, Lori Byrd, Michael Clay, Kim Khauv, Dana Madigan, Mitchell Haas, John Hyland, Michael Haneline, Jason Napuli</i></p> <p>A Delphi consensus process to identify public health priority issues for chiropractic</p> <p><i>Claire Johnson, Bart Green, John Hyland, Mitch Haas, Lori Byrd, Michael Haneline, Jason Napuli, Michael Clay, Kim Khauv, Dana Madigan</i></p> <p>Academic experiences of students with visual impairment in a chiropractic program: A qualitative study</p> <p><i>Aditi Joshi, Suzanne Ray</i></p>	<p>Doctor-patient boundary crossing</p> <p><i>Stu Kinsinger</i></p> <p>Development of a clinical skills remediation program for chiropractic students at a university</p> <p><i>Suzanne Lady, Leslie Takaki</i></p> <p>Occupational health history taking of chiropractic interns</p> <p><i>Dana Madigan, Erin Quinian-Ruof, Jerrilyn Cambron, Linda Forst, Joseph Zanoni, Lee Friedman</i></p> <p>Development of a Multidisciplinary Environments elective course</p> <p><i>Barbara Mansholt, Nathan Hinkeldey, H. Michael Olson, Michael Tunning</i></p> <p>Faculty and student attitudes towards key elements of excellence in teaching</p> <p><i>J. Dale Marrant, Mark Pfefer, Rachel Gilmore</i></p> <p>Incorporating balancing exercises into side-posture adjusting labs to increase competency</p> <p><i>Susan Miller</i></p>	<p>Description and outcomes of a novel chiropractic secondary and tertiary prevention program for chronic/recurrent spine pain</p> <p><i>Jordan Gliedt, Nathan Campbell, Aram Mardian, Clinton Daniels</i></p> <p>SOT cranial therapy for the treatment of abnormal sensations of the tongue, tinnitus, TMD and neck pain</p> <p><i>Rachel Hamel</i></p> <p>Manual therapy use and fetal malposition: a systematic review</p> <p><i>Julie Hartman, Alberto Doria, Natalie Doria, Lindsay Robinson, Katherine Pohlman</i></p> <p>MRI Utilization Pathway: an opportunity for spine care practitioners</p> <p><i>Nathan Hinkeldey, Michael Kramer, Kevin Percuoco</i></p> <p>Chiropractic care of a pediatric patient with twin-to-twin transfusion syndrome</p> <p><i>Jenny Lane, Allison Union, John Edwards</i></p>

5:00 pm - 6:00 pm – Crystal Ballroom Foyer

## Reception and Scientific Contributed Poster Presentations *Sponsored by ChiroTouch*

Meet and mingle with other scientific researchers, educators, clinical practitioners and leaders in the profession. All attendees invited to attend the poster presentation reception.

Listed in alphabetical order (last name of first author).

**The chiropractic care of a patient presenting with rib pain syndrome**

*Joel Alcantara, Junjoe Alcantara*

**Spinal manipulation and other complementary and alternative therapies for neck pain in the US**

*Peter Amua-Quarshie, Patricia Cates, Afsar Sokhansanj, Farshid Marzban, Richard Salazar, Harrison Ndetan*

**Preparation for US chiropractic medicine licensure by Doctor of Chiropractic educational programs**

*Christopher Arick, Sheyda Isazadeh*

**Post-traumatic SLAC of the wrist: a case review**

*Daniel Ault, David Mann, Alyssa Troutner, Norman Kettner*

**Sonography of Achilles tendon pathology: a case series**

*Patrick Battaglia, Ross Mattox, Daniel Ault, Norman Kettner*

**The ambiguity of sciatica as a clinical diagnosis and the value of integrating chiropractic care into a federally qualified health center**

*Patrick Battaglia, Barry Wiese*

**Vertebral displacement and muscle activity during manual therapy: distinct behaviors between spinal manipulation and mobilization**

*Eric Biner, Martin Descarreaux, Isabelle Page*

**A survey of sacro-occipital technique (SOT) practitioners: Pediatric patients and their presenting symptoms**

*Charles Blum, Thomas Bloink, Christine Benner*

**The polyvagal theory: A rationale for psychological and chiropractic interdisciplinary care**

*Charles Blum, Thomas Bloink*

**Sacroiliac joint hypermobility syndrome and a chiropractic: A preliminary survey**

*Charles Blum, Rachel Hamel*

**A preliminary survey of chiropractic college use of table sanitizers in their clinic: Are there green alternatives?**

*Charles Blum.*

**Study on inducing fifth lumbar vertebra malposition by M. B. DeJarnette: Historical development of sacro-occipital technique**

*Charles Blum, Rick Serola*

**Intervention in gall bladder dysfunction through chiropractic adjustment and nutritional therapy: a case report**

*William Boro, Mary Psaromatis*

**Intervention in tachycardia through chiropractic adjustment, sacro-occipital technique's chiropractic manipulative reflex technique: a case report**

*William Boro*

**EBCP curriculum development: An innovative and integrated approach**

*Theresa Brennan, Ali Rabatsky, William Sherrier*

**Patient-centered outcomes utilized in clinical pediatric manual therapy research studies**

*Beth Carleo, Carol Prevost, Brian Gleberzon, Kris Anderson, Katherine Pohlman*

**Chiropractic management of Fluoroquinolone allergic reaction**

*Tara Chevront, Adam Sergeant*

**Incidentally-found benign bone tumor leading to diagnosis of avascular necrosis in a patient with Crohn's disease: A case report**

*Munyeong Choi*

**Effects of high and low-power poses on maximal force production during a prone Carver thoracic adjustment performed on a mannequin atop force sensing table technology**

*Lydia Colacino, Richelle Martins, Jesse McAleese, Joseph Greenwood, David Starmer, Simon Wang*

**The Effects of Spinal Decompression on a Patient with a Post Traumatic Disc Injury**

*Karima Cooper*

**The Effect of Chiropractic Care and Retained Primary Reflex Therapy on a Patient with Erb's Palsy**

*Karima Cooper*

**Chiropractic management for female veterans with low back pain: A retrospective study of clinical outcomes**

*Kelsey Corcoran, Andrew Dunn, Lance Formolo, Gregory Beehler*

**Chiropractic management in a 54-year-old female with post-operative spinal adhesive arachnoiditis**

*Stacey Cornelson, Edward Johnnie, Norman Kettner*

**Large intramuscular hemangioma of the forearm: a case report**

*Stacey Cornelson, Jude Miller, Gary Guebert*

**A case report of osteomyelitis secondary to *Kingella kingae* in a 17-month old**

*Sophia Da Silva-Oolup, Julie O'Shaughnessy*

**Identifying the frequency of perinatal sacroiliac hypermobility indicators in a chiropractic clinic**

*John Edwards, Jeanne Ohm, Charles Blum*

**Performance of eyes-closed unipedal stance static balance test by pregnant women under chiropractic care**

*John Edwards, Allison Union, Joel Alcantara, Cassandra Varner*

**Survey attributes of chiropractic patients over 50 years of age**

*Kimary Farrar, John Ward*

**Management of an 11-year-old male with calcaneonavicular partial coalition in a chiropractic teaching clinic**  
*Melissa Ferranti, Lindsay Fierman*

**Unilateral Internal Jugular Vein Discovered External to Carotid Sheath and Superficial to Omohyoid Muscle**  
*Craig Fuller, Peter Amua-Quarshie, Bahram Sardarabadi, Susan Miller*

**Basic Science Education in Chiropractic Colleges**  
*Craig Fuller, Georgina Pearson, Afsar Sokhansanj, Michael Perryman, Paula Robinson*

**Cervical postural syndrome: a case for classification**  
*Courtney Goodchild, Nathan Hinkeldey*

**SOT cranial therapy with an occlusal splint for the treatment of low back, leg and neuropathic pain: A chiropractic dental co-treatment case report**  
*Rachel Hamel*

**C2 spondylolysis: a case for collaborative care**  
*Nathan Hinkeldey, Russell Reichter, James Leonard, Michelle Snow*

**Emergency department referral: a case for chiropractic integration**  
*Nathan Hinkeldey, Britta Conlon*

**Perceived canine adjusting confidence of multidisciplinary professionals after experience in a simulation lab**  
*Dana Hollandsworth, Gene Giggelman, Lori Baggett, Eric Russell*

**Effects of aromatherapy on test anxiety in students: A literature review**  
*Karmen Hopkins, Breanne Wells*

**Research topics of interest to practicing chiropractors: a pilot study**  
*Ronald Hosek, Stephanie Sullivan, Edward Owens, Angela Seckington*

**Traumatic lower cervical spondylolisthesis presenting comorbid with chronic rheumatoid arthritis in VA chiropractic clinic: a case report**  
*Steven Huybrecht, Kyle Reynolds, Pamela Wakefield*

**Trends in the utilization of force sensing technology outside of the curriculum in open practice hours**  
*Rebecca Kang, Tim Lau, Jae Hyun Cho, Omolola Ayoola-amale, Hera Khayyam, David Starmer*

**What the supercentenarians can teach us about aging well: a literature review with clinical pearls**  
*Lisa Killinger*

**Developing and testing rubric inter-rater reliability for assessing Meta-competency 1 & 2 performance**  
*Kathy Kinney, Rhina Patania, Linda Savage, Krista Ward*

**Health behaviors and beliefs of patients seeking acupuncture and chiropractic care**  
*Anupama Kizhakkeveetil, Kevin Rose*

**Full thickness biceps tendon tear in a 46-year-old male emphasizing the value of musculoskeletal ultrasound**  
*Ashley Lewandoski, Stacey Cornelson, Norman Kettner*

**Effect of chiropractic care on opioid dependence among patients with back and neck pain**  
*Melissa Lo, Wade Bannister, Laura Ten Eyck*

**Making National Library of Medicine Classification local: An expansion for chiropractic specific library collections**  
*Katie Lockwood*

**Developing a formal tutoring program at a chiropractic institution**  
*Ashley Long*

**Chiropractic role in management of an infant with VACTERL Association: A case report**  
*David Mann*

**Resolution of EMG confirmed lumbosacral radiculopathy with chiropractic care**  
*Barbara Mansholt*

**Re-Evaluation of Intra- and Inter-Examiner Reliability of Leg Length Analysis procedure in Prone position among experienced practitioners**  
*Farshid Marzban, Marty Hall, ASteven Kleinfeld, Charlotte Watts, Ronald Wells, Afsar Sokhansank, Harrison Ndetan*

**A case report highlighting pitfalls of clinical examination and imaging in the diagnosis of intramuscular myxoma**  
*Ross Mattox, Patrick Battaglia, Norman Kettner*

**Resolution of medial femoral cutaneous nerve entrapment using manual therapy and end range loading: a case report**  
*Trevor McArthur, Nathan Hinkeldey, H. Michael Olson, Laurie Hinrichs*

**Dizziness in a patient with airway compromise and TMD: A case report**  
*Jeffrey Mersky, Charles Blum*

**Exploring Chiropractic Services in the Canadian Forces Health Services—Opportunities and Challenges**  
*Silvano Mior, Ellen Vogel, Simon French, Margareta Nordin, Patrick Loisel, Audrey Laporte, Debbie Sutton*

**Learning spinal manipulation: gender and experience differences in biomechanical parameters, precision and variability**  
*Megane Pasquier, Florian Barbier Cazorla, Yannick Audo, Martin Descarreaux, Arnaud Lardon*

**How well does chiropractic education prepare for practice – a comparison of perceived preparedness of European chiropractic graduates: a cross-sectional study**  
*Elina Pulkkinen Pablo Perez de la Ossa*

**Use of a class 4 laser in recalcitrant elbow tendinopathy: a case study and brief review of the literature**  
*Mark Pfefer, Brian Asbury, Rachel Gilmore, Jackson Berg, Dani Steffen, Nathan Hoover*

**Implementation of a Multisource Feedback System in a College of Chiropractic**  
*Daniel Ranz, Rodney Pendarvis, Pablo Perez de la Ossa, Pablo, Elina Pulkkinen, Adrian Wenban*

**The Double Notch Sign: Osteochondral fracture strongly indicating severe internal joint derangement: A case report**  
*Matthew Richardson, Lauren Sullivan*

**Concussion risk reduction among high school football players wearing protective external helmet technology: an observational study**  
*Robert Rowell, Steve Novicky*

**Analysis of kinematic variability in pianists: a pilot study**  
*Anne-Marie Schmidt, Brent Russell, Ronald Hosek*

**Sensory integration therapy utilizing the SAVE Program: A case report of a post-concussive adult**  
*Angela Seckington, Stephanie Sullivan, Emily Drake*

**Exploring the relationship of GPA and performance on a digital test of radiology interpretation skills (DIM) in chiropractic colleges**

*Margaret Seron, Paul Townsend, John Hyland, Igor Himelfarb, Michele Fisher*

**The benefits of acupuncture to the management of capsulitis (TMD): a case study**

*Peter Shipka, Brian Gushaty, Kostadinos Kakarelis, Peter Semeniuk*

**Utilization of acupuncture for the management of neuropathy related to Frieberg's Disease: a case study**

*Peter Shipka, Brian Gushaty, Aaron Teitelbaum, Peter Semeniuk*

**Dental chiropractic non-surgical interdisciplinary care of a 48-year-old male patient with a deviated septum, headaches, and TMJ dysfunction: A case report**

*David Shirazi, Adam Del Torto, Charles Blum*

**Vaginal birth after Caesarean (VBAC) with twin pregnancies under chiropractic care with Network Spinal Analysis**

*Melody Spear, Joel Alcantara*

**Evidence-based practice attitudes and utilization survey (EBASE) of chiropractic students**

*Sarah Stephens, Joel Alcantara*

**Survey of chiropractic clinicians on self-reported knowledge and recognition of mild traumatic brain injuries**

*David Taylor, Shari Wynd*

**Development of student scholarship skills**

*Gene Tobias, Paul Wanless, David Sikorski, Anupama Kizhakkeveetil*

**An institutional case study of best practices for student evaluations**

*Michael Tunning, Dustin Derby*

**Chiropractic management of chronic neck pain in a cancer patient in remission: a case study**

*Robert Walsh, Jessica Young, Greg Snow*

**Symptomatology compression rates of chiropractic patients over 4 weeks with acute low back pain**

*John Ward, Ken Tyer*

**Aromatherapy for test anxiety in chiropractic students: a controlled feasibility trial**

*Breanne Wells, Lia Nightingale, Dustin Derby, Stacie Salisbury, Dana Lawrence*

**Interdisciplinary collaboration to establish a self-management course at a VA facility, for patients with chronic pain**

*Susan Wenberg, Sheila Sedig*

6:00 pm - 7:30 pm

**Workshops**

Crystal Ballroom VI	Crystal Ballroom VII	Crystal Ballroom VIII	Lalique Ballroom I	Lalique Ballroom II
Workshop	Workshop	Workshop	Workshop	Workshop
FACULTY	EDUCATION	FACULTY	CLINICAL	LEADERSHIP
<p><b>Toward the Development of a Standardized Chiropractic Technique Program</b></p> <p>Chiropractic is one of the least standardized of all professions, and this lack of standardization may frustrate the development of a unified position statement that clearly defines its cultural authority. The tremendous degree of variability between chiropractors is a reflection of the variety of different educational models available to students, especially within chiropractic technique programs. In 2014, we laid the ideological foundation upon which a profession-wide chiropractic technique program ought to be constructed. In 2016, an inventory of diagnostic procedures was created. This process unveiled a few areas of discrepancy, specifically with regards to the use of thermography/surface EMG and x-ray line marking analysis. The purpose of a 2018 Workshop is to address these areas of discrepancy in diagnostic procedures and to developing an inventory of what therapeutics procedures ought to be taught within chiropractic technique programs, based on the best available evidence consisting of published studies of clinical effectiveness and safety, patient preference and clinical experience.</p> <p><i>Brian Gleberzon Christopher Roecker Charles Blum Christopher Good Robert Cooperstein</i></p>	<p><b>Flipping Clinic Orientation to Decrease Remediation and Increase Performance</b></p> <p>Transitioning Doctor of Chiropractic students from didactic to clinical practice is one of the most challenging aspects of a chiropractic curriculum. Students must become familiar with new policies and procedures, orient to new educational expectations, and begin to integrate information from academic courses into a clinical setting. In this workshop, attendees will reflect on the effectiveness of their institution's initiatives, explore novel and assessed strategies implemented for improving this transition, and develop an action plan for enhancement to facilitate students' shift from classroom to clinic.</p> <p><i>Steven Paterno William Watson Jay Randazzo Doug Sanford</i></p>	<p><b>The Force Within You: Using Force-Time Profiles in Chiropractic Education</b></p> <p>This workshop is meant to collaborate, inspire conversation, and showcase how several chiropractic institutions have implemented force-time profiling technology into traditional technique curriculum including establishing targets and profiles, utilizing it as a form of assessment, integrating it into technique classes, and providing open lab practice opportunities.</p> <p><i>Dana Hollandsworth Eric Russell Steven Lester Paul Osterbauer Jon Wilson</i></p>	<p><b>Fostering Responsible Use of Social Media in Chiropractic Clinical Practice</b></p> <p>The purpose of this workshop is to increase the knowledge and skills of the participants in utilizing a primary social media engagement tool, specifically Facebook, for their campus clinics. This workshop will enhance participants' ability to teach future chiropractic graduates how to responsibly and effectively manage this unstoppable cultural force and to ethically enhance patient education, community engagement and brand awareness.</p> <p><i>Julie Johnson John Stites</i></p>	<p><b>Overcoming Your Immunity to Becoming a Better Leader</b></p> <p>Whether as leaders in our personal lives or as supervisors, directors, deans, VPs, or presidents, we all have behaviors that resist change. No matter what we do, we eventually find ourselves back at square one. Whatever change efforts we made might have been successful for a period of time, but then...back to square one. Some people, for example, can cut some calories, drop 10 pounds, and never look back. For many, however, that technical solution leads to a temporary weight loss. Generally, within 2 years we find ourselves having gained the weight back...plus more. The Immunity To Change process is designed to create an "X-ray", if you would, of how your goal is undermined BY YOU! Whether your goal is time management, expressing empathy, delivering difficult feedback to others, asserting yourself, asking for feedback about your performance, etc. this workshop will show you how to create an X-ray (Immunity Map) that will provide you with information that you have likely never recognized as being bound up with your goal.</p> <p><i>Tom Milus</i></p>



## Saturday, March 10

7:00 am - 7:50 am – Crystal Ballroom Foyer			
Continental Breakfast			
American Public Health Association – Chiropractic Health Care Section meeting All attendees are welcome to join the APHA meeting			
8:00 am - 9:30 am			
<b>Scientific Contributed Platform Sessions</b>			
Crystal Ballroom VI	Crystal Ballroom VII	Crystal Ballroom VIII	Laique Ballroom I
<b>RESEARCH</b>	<b>EDUCATION</b>	<b>CLINICAL</b>	<b>CLINICAL</b>
<i>Moderator:</i> <b>DANA MADIGAN</b>	<i>Moderator:</i> <b>BART GREEN</b>	<i>Moderator:</i> <b>DANA LAWRENCE</b>	<i>Moderator:</i> <b>KAT LINAKER</b>
<p><b>Practice and patient characteristics of wellness chiropractic practice: results from a PBRN</b></p> <p><i>Joel Alcantara, Jeanne Ohm, Junjoe Alcantara</i></p> <p><b>A feasibility study of teaching reproducible force-time profiles of the toggle-recoil and Blair Upper Cervical spinal manipulative procedures (adjustments)</b></p> <p><i>Todd Hubbard, Emily Speer, Loni Olstad</i></p> <p><b>Spinal manipulation alters conduction velocity and force within the Tibialis Anterior Muscle</b></p> <p><i>Taha Al Muhammadee Janjua, Imran Khan Niazi, Kelly Holt, Syed Omer Gilani, Muhammad Nabeel Anwar, Ernest Kamavuako, Heidi Haavik</i></p> <p><b>Brain correlates of cLBP treatment with manipulation versus mobilization</b></p> <p><i>Norman Kettner, Dan-Mikael Ellingsen, Ekaterina Protsenko, Ishaq Mawia, Matthew Kowalski, David Swensen, Deanna O'Dwyer-Swenson, Vitaly Napadow, Marco Loggia</i></p> <p><b>Effect of an 8-week physical exercise program on spinal manipulation biomechanical parameters in a group of first year chiropractic students</b></p> <p><i>Arnaud Lardon, Megane Pasquier, Delgis Garcia, Yannick Audo, Florian Barbier-Cazorla, Martin Descarreaux</i></p> <p><b>Receipt of an opioid prescription among Veterans of recent wars using chiropractic care</b></p> <p><i>Anthony Lisi, Kelsey Corcoran, Lori Bastian, Christine Goertz, Eric DeRyke, Cynthia Brandt</i></p>	<p><b>Assessing perceived confidence in communication skills in second-year chiropractic students</b></p> <p><i>Lia Nightingale</i></p> <p><b>Force sensing feedback decreased force variability after a coaching session during simulated, prone, thoracic adjustments on a manikin</b></p> <p><i>Paul Osterbauer, Steven Lester, David Starmer</i></p> <p><b>Informed consent: knowledge, opinion and application among the French chiropractic profession</b></p> <p><i>Sylvain Pigeon, Arnaud Lardon</i></p> <p><b>Assessment of Student Attitudes toward Patient-Centered Care at a Chiropractic College</b></p> <p><i>Katherine Pohlman, Kent Stuber, Anser Abbas, Vanessa Morales, Silvano Mior</i></p> <p><b>Patient safety culture attitudes of faculty clinicians in chiropractic academic health clinics: a cross-sectional survey</b></p> <p><i>Stacie Salisbury, Ronald Boesch, Shane Carter, Greg Snow, Lance Corber, Martha Funabashi, Katherine Pohlman</i></p> <p><b>Feasibility of auditory evoked potentials as an outcome measure before and after chiropractic care delivered in a university teaching clinic</b></p> <p><i>Stephanie Sullivan, Les Gilbert</i></p>	<p><b>Tactile perception of stiffness and volitional thrust intensity modulate spinal manipulation dose characteristics</b></p> <p><i>Steven Passmore, Geoffrey Gelley, Brian MacNeil</i></p> <p><b>Utilization of chiropractic care in U.S. children and adolescents: results from the 2012 National Health Interview Survey</b></p> <p><i>Trent Peng, Baujiang Chen, Kelley Pettee Gabriel</i></p> <p><b>Reasons and referral sources for chiropractic utilization in U.S. children and adolescents: results from the 2012 National Health Interview Survey</b></p> <p><i>Trent Peng, Baujiang Chen, Kelley Pettee Gabriel</i></p> <p><b>Spinal kinematic assessment of a chiropractor performing side posture adjustments: a pilot study using a motion capture system</b></p> <p><i>Brent Russell, Michael Weiner, Linda Mullin, Edward Owens, Ronald Hosek</i></p> <p><b>Patient and practitioner perceptions of osteokinematics and kinetics of supine cervical spine manipulation: a pilot study</b></p> <p><i>Brent Russell, Shari Wynd, Ronald Hosek, Edward Owens, Kathryn Hoiriis</i></p> <p><b>Cervical radiculopathy and upper extremity motor preparation: using movement to measure function</b></p> <p><i>Shelley Sargent, Quinn Malone, Steven Passmore</i></p>	<p><b>The management of back pain with concurrent mental health disorders: A case review</b></p> <p><i>James Leonard, Nathan Hinkeldey, Trevor McArthur, Jeffrey Kinderdiz</i></p> <p><b>Classification of lumbar radiculopathy: a case for collaborative care</b></p> <p><i>Trevor McArthur, Nathan Hinkeldey, Tamara Ransdell, Clay Ransdell, Courtney Goodchild</i></p> <p><b>Resolution of iatrogenic vocal cord paralysis following shoulder arthroscopy utilizing chiropractic intervention to release a Recurrent Laryngeal Nerve entrapment</b></p> <p><i>Harold Olson, Dawn Carlson</i></p> <p><b>Unresponsiveness to sacro-occipital technique (SOT) procedures suggested possible pathological contribution to patient presentation: A case report</b></p> <p><i>Kathi Perry</i></p> <p><b>Effects of nutritional supplements on concussion and traumatic brain injury: an umbrella review</b></p> <p><i>Mark Pfefer, Rachel Gilmore, Nathan Hoover, Jon Wilson, Jackson Berg</i></p>

9:30 am - 10:30 am – Crystal Ballroom Foyer

**Scientific Contributed Poster Session & Break – Sponsored by Visual Outcomes**

-See previous listing

10:30 am - 12:00 pm

**Scientific Contributed Platform Sessions**

Crystal Ballroom VI	Crystal Ballroom VII	Crystal Ballroom VIII	Lalique Ballroom I
RESEARCH	EDUCATION	RESEARCH	CLINICAL
Moderator: <b>ANDRE BUSSIERES</b>	Moderator: <b>KAREN BOBAK</b>	Moderator: <b>BARBARA MANSHOLT</b>	Moderator: <b>BARCLAY BAKKUM</b>
<p>The effects of whole body rotation on brain function as measured by quantitative electroencephalography</p> <p><i>Michael Longyear, Mitchell Ferguson, Dan Tuttle, Emily Drake, Stephanie Sullivan</i></p> <p>Impact of extremity manipulation on postural sway characteristics: a preliminary, randomized cross-over study</p> <p><i>Christopher Malaya, Cody Powell, Joshua Haworth, Dean Smith, Katherine Pohlman</i></p> <p>Feasibility and efficacy of a prehabilitation program on the postoperative recovery of patients following surgery for spinal stenosis: a randomized controlled pilot trial</p> <p><i>Andree-Anne Marchand, Julie O'Shaughnessy, Claude-Edouard Chatillon, Vincent Cantin, Martin Descarreaux</i></p> <p>The measurable effects of an Atlas adjustment on quantitative posturography</p> <p><i>Jeremy Miller, Robert Rectenwald, Ronald Hosek</i></p> <p>Mechanical properties of a lumbar spine mannequin with simulated intervertebral fixation</p> <p><i>Edward Owens, Ronald Hosek, Brent Russell</i></p>	<p>Systematic review of studies suggesting errors in identifying lumbar spinal levels exhibit a systematic cephalad bias</p> <p><i>Felisha Truong, Robert Cooperstein</i></p> <p>Restructuring a Chiropractic Principles and Practice Course</p> <p><i>Simon Wang, David Starmer, Karin Hammerich</i></p> <p>Improving diagnostic meta-competencies</p> <p><i>Krista Ward, Monica Smith, Monique Andrews, Khalid Chaney</i></p> <p>A clinical data registry within a chiropractic college teaching clinic: A 1-year demonstration project</p> <p><i>Robert Vining, Elissa Twist, Ronald Boesch, Lance Corber, Cynthia Long, Christine Goertz</i></p> <p>Effects of random questioning expectations on chiropractic students' preparedness for lecture and academic performance</p> <p><i>Niu Zhang, Charles Henderson</i></p> <p>Obesity bias among pre-clinical and clinical chiropractic students and faculty at an integrative health care institution: a cross-sectional study</p> <p><i>Gena Kadar, H. Garrett Thompson</i></p>	<p>Intervertebral kinematics in the cervical spine before, during and after cervical spine manipulation</p> <p><i>Michael Schneider, Tom Gale, Kris Gongaware, William Anderst</i></p> <p>Reliability Study for Assessment of Cranio-Cervical Junction Hypermobility</p> <p><i>Michael Schneider, Karthik Hariharan, Michael Timko, Christopher Bise, Kris Gongaware</i></p> <p>High-velocity, low-amplitude spinal manipulation training of prescribed forces and thrust duration: a pilot study</p> <p><i>Zacariah Shannon, Robert Vining, Maruti Ram Gudavalli</i></p> <p>The effects of whole body rotation on brain function as measured by quantitative electroencephalography</p> <p><i>Stephanie Sullivan, Emily Drake, Dan Tuttle, Ronald Hosek, Rachel Youkey</i></p> <p>Older adults' perceptions of doctor-patient relationships in a trial of collaborative care for low back pain: A qualitative study</p> <p><i>Breanne Wells, Stacie Salsbury, Dana Lawrence, Dustin Derby, Lia Nightingale, Christine Goertz</i></p> <p>Forces used to assess perceived prone thoracic end feel</p> <p><i>Jon Wilson, Steven Agocs, Mark Pfefer, Jackson Berg, Rebecca Wates</i></p>	<p>Chiropractic migraine patient and transient global amnesia: a case report</p> <p><i>Paula Robinson, Lauren Tollefson</i></p> <p>Sacroiliac joint myoligamentous interrelationships: Implications of sacral nutation dysfunction on whole body kinematics</p> <p><i>Rick Serola, Charles Blum</i></p> <p>Chiropractic management of chronic neck pain, an alternative to radio-frequency ablation (RFA): a case study</p> <p><i>Robert Walsh, Trevor Wendel, Greg Snow</i></p> <p>Chiropractic care for pregnancy and post-partum: a systematic review</p> <p><i>Carol Ann Weiss, Katherine Pohlman, Sophia da Silva-Oolup, Crystal Draper, Kent Stuber, Kent Murnaghan, Cheryl Hawk</i></p> <p>A scoping review of risk factors and determinants of osteoporosis and vertebral osteopenia</p> <p><i>Bart Green, Claire Johnson, Scott Haldeman, Erin Griffith, Michael Clay</i></p>

12:00 pm - 1:30 pm – Crystal Ballroom I - V

**Lunch – Sponsored by Foot Levelers, Inc.**

**Announcement of the ACC RAC research paper awards  
Scientific paper awards hosted and sponsored by NBCE**

1:30 pm - 3:00 pm

**Workshops**

Crystal Ballroom VI	Crystal Ballroom VII	Crystal Ballroom VIII	Lalique Ballroom I	Lalique Ballroom II
Workshop	Workshop	Workshop	Workshop	Workshop
RESEARCH	EDUCATION	LEADERSHIP	CLINICAL	COLLABORATION
<p><b>Building Chiropractic Research Capacity: 2018 Research Agenda Update</b></p> <p>Research capacity building is necessary to support a scientific research for the chiropractic profession; however, we must first address the essential components of building research capacity. This interactive workshop will be presented by a collaborative team of experts and will encourage attendee participation. This session continues the Chiropractic Research Agenda cycle, will provide an update on the current research, and discuss building the research capacity of the chiropractic profession.</p> <p><i>Claire Johnson Bill Meeker Ian Coulter Lanay Mudd Partap Singh Khalsa</i></p>	<p><b>Low Tech Strategies to Enhance Spinal Manipulation Performance</b></p> <p>The chiropractic profession is moving toward innovative simulation methods and other technologies to enhance mastery of spinal manipulation performance. However, there are several very effective low-tech strategies that our profession has used for years. This workshop is meant to collaborate and showcase unique and novel exercises/drills that experienced technique instructors have been using at various chiropractic institutions to help students enhance palpation skills, develop speed and control of their force using in high-velocity.</p> <p><i>Steven Lester Christopher Good Dana Hollandsworth Steven Grande Paul Osterbauer</i></p>	<p><b>Professional Identity Formation: Values of Professionalism</b></p> <p>This hands-on workshop features activity regarding faculty influences on the chiropractic learner's acquisition of their professional identity. In particular, attendees will rate the current state of the educational focus in CCE accredited colleges and contrast this with the evidence on how to discern barriers in facilitating professionalism values.</p> <p><i>Stuart Kinsinger Brian McAulay</i></p>	<p><b>Translating Research into Practice: the ABCs of CPGs</b></p> <p>Clinical practice guidelines (CPGs) are one of the chief tools for improving clinical practice, forging interprofessional collaborations, and protecting patients' access to appropriate care. Doctors of chiropractic (DCs) must learn how to use CPGs skillfully in the best interests of their patients. This workshop will focus on the basic skills needed to translate research—as represented in CPGs—into everyday practice to support their patient management plans. Using an interactive small group format based on clinical scenarios, participants will work through the process of finding an appropriate CPG, critically evaluating how it supports their proposed management plan, and defending their plan in a mock utilization review.</p> <p><i>Cheryl Hawk Amy Minkalis Michael Sheppard</i></p>	<p><b>Establishing Core Public Health Competencies in Doctor of Chiropractic Programs</b></p> <p>The purpose of this workshop is to gather input and reach consensus on a core set of public health competencies to be achieved in Doctor of Chiropractic Programs (DCP). Anecdotally, there is little consistency in public health curriculum across DCPs, and a lack of consensus around the breadth and depth of public health knowledge that is appropriate for the chiropractic profession. In light of the public health burden of musculoskeletal conditions, and an ageing society suffering from chronic disease, chiropractic has an emerging opportunity to engage more broadly in public health initiatives. Workshop content builds on competencies and curricular recommendations from a range of healthcare disciplines, and is in collaboration with the American Public Health Association's Chiropractic Health Care Section.</p> <p><i>Dana Madigan Michelle Maiers Joseph Pfeifer</i></p>

3:00 pm - 3:30 pm – Crystal Ballroom Foyer

**Break**

3:30 pm - 5:00 pm – Crystal Ballroom I - V

### **Closing Plenary**

#### **What Is the Choosing Wisely Campaign and Why Is It Important to Patients?**

The purpose of the Choosing Wisely campaign is to spark thoughtful conversations between patients and their doctors about the best, most appropriate care. Choosing Wisely is a joint effort between the American Board of Internal Medicine Foundation and Consumer Reports.

They feature recommendations about health care procedures that are common, but whose usefulness in some cases is not supported by the evidence. To participate, healthcare organizations develop a list of 5 tests and/or procedures that may be common but for whom **routine use** is not necessarily based on the best evidence available. In August of 2017, the American Chiropractic Association (ACA) released their Choosing Wisely list. This list focuses on the use of x-rays, back braces, physical therapy modalities and psychosocial assessments for patients who need longer term care.

Since the release of this list, there has been significant controversy regarding the ACA's Choosing Wisely recommendations, including misunderstandings regarding how they are to be applied in chiropractic clinical practice. The ACA's Choosing Wisely campaign creates an opportunity for our chiropractic educational institutions to discuss best practices in spine care, and what constitutes patient centered, evidence informed management of back pain.

Panelists will begin with a discussion of the Choosing Wisely campaign, and the evidence base that informed recommendations. Leading experts will supplement the discussion by challenging and exploring various facets of the recommendations. This includes imaging related questions to consider as part of our chiropractic research agenda, an update of best practices for active care in patient treatment plans, and perspectives on the extent to which Doctor of Chiropractic Programs should reflect Choosing Wisely recommendations in their curricula. The goal of this session is to empower attendees with the information and tools necessary to deliver, and instruct chiropractic students in best practice management of low back pain.

**Moderator: Michelle Maiers, DC, PHD, Executive Director of Research and Innovation, Northwestern University of Health Sciences**

**Panelist: Christine Goertz, DC, PHD, Senior Scientific Advisor, American Chiropractic Association**

**Panelist: Todd Knudsen, DC, DACBR, Vice President of Institutional Advancement and Special Projects, New York Chiropractic College**

**Panelist: Andre Bussieres, DC, PHD, Assistant Professor, School of Physical and Occupational Therapy and Associate Member, Department of Epidemiology, Biostatistics and Occupational Health, McGill University; Professor, Chiropractic department, Universite du Quebec a Trois Rivieres**

5:00 pm - 5:15 pm – Crystal Ballroom I - V

**Closing Comments and 2019 ACC RAC Announcements**