Course Title:	**International Vertebral Subluxation Summit**
Instructors:	Dr. Dan Murphy, Dr. Jay Holder, Dr. John Minardi, Dr. Scott Rosa, Dr. Ted Koren, Dr. Julie Mayer-Hunt, Dr. John Maltby, Dr. Deed Harrison, Dr. Joshua Lawlor
Course Objective:	To provide the Doctor of Chiropractic with an integrated education in the understanding and communication of; practices and principles; incorporating educational reasoning and outcome assessment applications. Review of the educational structure of the classical and contemporary models of vertebral subluxation. This program is presented to enhance the chiropractic practitioner's understanding of current developments in the scientific and clinical applications of wellness and vertebral subluxation in the context of today's health care setting.
CE Hours:	**16**
Dates:	**July 27-28, 2018**
Location:	**Overland Park, KS**

Friday; July 27

8:30am-10:30am Contemporary Evidence Based Subluxation Research

- Clinical neuroanatomy involved in spinal mechanoreception of vertebral subluxation.
- Integrating the clinical relationships between chronic pain and spinal mechanoreception.
- Clinical relevance of receptor-driven neuroplasticity, synaptogenesis, and trans neural degeneration.
- Effects on the Body and Function:
- Spinal mechanoreceptor control of somatic and visceral function.
- Spinal cord laminar reflexes as relating to somatic and visceral function.
- Subluxation Neurology involving the immune system, posture, motion, balance, cognition... and more.
- Chiropractic Clinical Integration:
- Chiropractic care and the neurobiology of spinal issues.
- Clinical relevance of nuclear DNA, the neurological receptor and neurotransmitters
- Case management choices and clinical

2 Hrs. CE. Lecture; Chiropractic Research – Murphy

10:30am-12:00pm The Neuroscience of Addictionology and the Vertebral Subluxation

- Definition of Addiction, The Five Addictions, Theories of Addictions; The Brain Reward Cascade, Disease
- Comprehensive Mechanisms and Dynamics of Addictions
- Concept of Addiction, Multi-factorial Addiction components,
- Critical review of research validating chiropractic from non-chiropractic origin.
- Address how to apply research in practice to build greater patient clinical outcomes.

1.5 Hrs. CE. Lecture; Chiropractic Research – Holder

LUNCH 12:00pm-1:00pm

1:00pm-3:00pm Neuroimmunology Physiological and Consequences of Vertebral Subluxation

- Neuroimmunology Physiology and health
- Proof from contemporary science and research trends
- Neurological Input and Output
- Science and Research of the Adjustment
- Scientific benefits of a Chiropractic Adjustment
- Physiological changes driven by the science

2 Hr. CE. Lecture; Physiology – Minardi

3:00pm-5:00pm Hemodynamics of Cranio-Cervical Subluxation

- In depth review of the Craniovertebral junction and its design to perform its unique role of providing stability and mobility to the most stable and most mobile region of the body. It also performs its role of protection of most critical neural and vascular structures whilst permitting a wide range of movements to great perfection
- The Craniocervical junction (CCJ) is a potential choke point for craniospinal hydrodynamics and may play a causative or contributory role in the pathogenesis and progression of neurodegenerative diseases such as Alzheimer's disease, Parkinson's disease, MS, and ALS, as well as many other neurological conditions including hydrocephalus, idiopathic intracranial hypertension, migraines, seizures, silent-strokes, affective disorders, schizophrenia, and psychosis.
- The purpose of this lecture is to provide an overview of the critical role of the CCJ in craniospinal hydrodynamics and to stimulate further research that may lead to new approaches for the prevention and treatment of the above neurodegenerative and neurological conditions

2 Hr. CE, Lecture; Spinal Anatomy – Rosa

Saturday; July 28

8:30am-10:00am Full Spine Tonal Subluxation Model

- The vertebral subluxation involves a deviation from normal frequency ranges and neural tension; the adjustment involves a correction towards normal frequency ranges and neural tension. Tone is therefore quantifiable and can adhere accordingly to clinical application
- Discuss the pathophysiologic changes that occur as a result of tonal changes.
- Review the effects of individual stress mediators on neuronal function and the emerging evidence documenting the crosstalk between nervous system response and organ/system function/dysfunction

1.5 Hrs. CE, Lecture; Neurology – Koren

10:00am-11:30am Advanced Considerations of the Craniocervical Junction (CCJ)

- Review of the direct and in-direct influence neuronal circuit breakdown has on the nervous system and additional organ/system components.
- Review of the functional advantages of nervous system mediators and responses to stress.
- Focus on the uniqueness of upper cervical subluxation complex, its relationship to the body as a whole and the history and principals involved in the upper cervical adjusting technique

1.5 Hrs. CE, Lecture; Neurology – Mayer-Hunt

11:30am-1:00pm Objective clinical documentation of the vertebral subluxation complex including:

Clinical findings of spinal kinesiopathology,
Clinical findings of neuropathophysiology,
Clinical findings of myopathology.

1.5 Hr. CE. Lecture; Documentation – Maltby

1:00pm-3:00pm Gonstead Methodology Overview

- Advanced review of maximum balance and stability in the spinal column.
- Advanced review of the position of the interverbal disc and the results of disc injury resulting in intervertebral misalignment and spinal motion disturbances including nerve dysfunction.
- Advanced review of the primary characteristics of intervertebral disc lesions.
- Advanced review of neurological ramifications of vertebral subluxation.

2 Hr. CE. Lecture; Spinal Anatomy – Lawlor

3:00pm-5:00pm Full spine analysis as the gold standard assessment in Chiropractic

- Spine modeling studies evaluating ideal and average human alignment variables,
- Spine biomechanics studies analyzing loads, stress, and strains, Posture modeling studies,
- Reliability of measurements and evaluation of patients, Validity of the measurements and evaluation of patients, Randomized trials evaluating technique outcomes; Non-randomized trials evaluating technique outcomes,

2 Hrs. CE, Lecture; Spinal Anatomy – Harrison