**Practical Neurology of the VSC and Thompson Technique**
**Dr. John Minardi BHK, DC.**

**Hour 1: Breakdown of the Five VSC Components**
- Kinesopathalogy- Abnormal Biomechanics and degeneration that occurs.
- Neuropathology- Nerve root pressure, Dis-afferentation, Neural Dysfunction
- Myopathology- Local Muscle, muscle spindle, GTO, and responding musculature
- Histopathology- Inflammation, chemical mediators and connective tissue.
- Biochemical/Vascular- Vasodilation, vasoconstriction and affects on vasculature.
- Chiropractors viewpoint of the VSC
- Potential Causes of the VSC

**Hour 2: Practical Neurology: A Proposal of the VSC's effect on Proprioception**
- Muscle Spindle, Intervertebral Disc, GTO and Facet joint implications with a VSC.
- Type 1 A and Type 2 Afferent nerve fibers.
- Cerebellum's influence on aberrant VSC proprioception influence
- Thalamus integration
- Cortex influence to the VSC's aberrant stimuli, and its corrective response through the bulboreticulo facilitation, and cortical dis-inhibition.
- Cortical corrective changes response to local, responsive and postural muscles.

**Hour 3: Practical Neurology: A Proposal of the VSC's implications with Nociception and Pain**
- The difference between nociception and pain
- Inflammation- Acute and Chronic due to a Subluxation
- Chemical Mediators associated with Pain
- Nocicepeptive stimuli within the subluxated facet capsule.
- Group A-delta, Type C fibers, Silent Nociceptors and Polymodal receptors
- Thalamus integration
- Cortical influence and involvement of the Limbic system.
- Non-nociceptive processing - Dorsal Columns

**Hour 4 Practical Neurology: A Proposal of the VSC's effect on the Stress Response and the Hypothalamus**
- Increased sympathetic response with the VSC
- Effects of sympathetic activity on tone
- Effects of sympathetic activity on the immune system
- Sympatho-Adrenal System
- Hypothalamus-Pituitary-Adrenal Axis

**Hour 5: Practical Neurology: A Proposal of the VSC's effect on the ANS, Immunity and Integration of all Systems.**
- Somatoautonomic reflex theory
- Chronic Segmental Facilitation
- Research on the effects of the adjustment on the ANS and the immune system.
- A proposal of the VSC's integrated effect on all systems reviewed, and what occurs when the subluxation is corrected with an adjustment.

**Hands-On Practical Component:**

**Hour 6: Thompson Analysis: Primary Area: Cervical**
- Double Cervical Lock - All biomechanics, neurological implications, adjustments
- Atlas Subluxation - All biomechanics, neurological implications, adjustments.

**Hour 7: Thompson Analysis: Primary Area: Cervical**
- Over Compensated Cervical Syndrome - All biomechanics, neurological implications, adjustments.
- Anterior Cervical - All biomechanics, neurological implications, adjustments

**Hour 8: Thompson Analysis: Primary Areas: Cervical and Occipital**
- Posterior Cervical - All biomechanics, neurological implications, adjustments and
- Posterior Occiput Syndrome - All biomechanics, neurological implications, adjustments

**Hour 9: Thompson Analysis:  Primary Areas: Sacrum and Ilium**
- Derefield Negative- All biomechanics, neurological implications, adjustments
- Derefield Positive- All biomechanics, neurological implications, adjustments

**Hour 10: Thompson Analysis: Secondary and Tertiary Areas: Lumbar Spine**
- Posterior Lumbar- All biomechanics, neurological implications, adjustments
- Posterior Inferior Thoracic- All biomechanics, neurological implications, adjustments

**Hour 11: Thompson Analysis: IN Ilium Clean up Move**
- Thompson IN Ilium- All biomechanics, neurological implications, adjustments
- Muscular involvement and correction of the Iliopsoas and Piriformis

**Hour 12: Thompson Analysis: EX Ilium Clean up Move**
- Thompson EX Ilium- All biomechanics, neurological implications, adjustments.
- Muscular involvement and correction of the Obturator Internus, and Sartorius.

**Hour 13: Thompson Analysis: Elevated Rib Cage Clean up Move**
- Thompson Elevated Rib Cage- All biomechanics, neurological implications, and adjustments.
- Muscular involvement and correction of the Pectoralis Minor.