INTRO/LEVEL 1

NUCCA Protocol – JOHNSON
This class will clearly lay out step by step what is considered NUCCA treatment protocols including but not limited to supine leg check, anatometer postural readings, thermography assessment, adjusting steps, x-ray taking and analysis and even NUCCA approved equipment.

Intro to Biomechanics I and II – FLORY/SHERWOOD
This class serves as an introduction to the biomechanics of the NUCCA protocol. It's focus is on the concept of the condylar-axial relationship and how this important factor influences frontal plane movement at the craniocervical junction.

4 Elements – FLORY/F. SESKER/SHERWOOD
This class will be an overview of the NUCCA biomechanics, explaining the 4 elements that comprise the height vector and the purpose of each.

Structural Analysis Part I – LAPENSKI/F. SESKER
Overview x-ray analysis, height vector, rotation vector, and torque. Criteria for good films and examples of unacceptable films. Specific analysis on the lateral x-ray and the points on the vertex x-ray.

Structural Analysis Part 2 – ZABELIN/F. SESKER
Analysis of the nasium x-ray. Establishing points and line drawing. Calculating the height vector and combining it with the rotation vector.

Film Quality (level 1) – LAPENSKI
Participants will learn when to use which filters to get the best image for each film. They will find out what to look for to determine if they have good quality images. Participants will discover how to change mAs and filter combinations to get the most crisp films. They will learn what doctors are looking for to pass films for certification. Discussion of atlas position, head rotation and proper S factors.

Introduction to Adjusting I and II - JOHNSON
The 8 phases and 27 individual steps of the NUCCA adjustment. Explain each phase and step so doctors understand what is accomplishing with each step. Practice drills with individual feedback on performance

Image Positioning – ZABELIN
A level one class beginning with a power point presentation on the requirements and procedures in correct patient placement for the NUCCA views. The remainder of the class will be practical, with live demonstration and attending DCs and students setting classmates for the views.

Leg Check - FORAN
Review the protocol and hands on experience for the supine leg check portion of the examination.

Headpiece Placement - FITZPATRICK
Lecture, demonstration and participation providing an understanding and practical application in the use of the mastoid headpiece.

INTERMEDIATE/LEVEL 2

Approach and Settleback Phases (level 2) – PACKER
This class is designed to help doctors learn how to develop and practice the adjusting portion of the NUCCA procedure. This part will involve hands on learning and practicing the initial adjusting phases in small groups with certified instructors.

Certification Testing Review – ZABELIN/STOCKWELL
This class prepares the DCs for the written exam for the Level 2 certification exam by going over the material needed for this section of the certification process. Attending DCs are encouraged to bring a laptop/notebook/tablet to take the exam while at the conference.

X-ray Analysis - YARDLEY
Pre-analyzed x-rays will be distributed to participants (without the solution) to perform a detailed analysis and proposed biomechanical solution. A reference library of the cases with analysis and biomechanical solution will be available. This will then be reviewed by a certified doctor with the textbook solution available to compare. This is a workshop to further develop case analysis to a more intermediate to advanced level.

Adjusting Phases Part 2 (level 2) – LAPENSKI
This class will cover detailed aspects of the 8 adjusting phases of the NUCCA protocol. It will involve classroom overview and description as well as practical breakouts with certified doctors to work in small group breakouts.

Film Quality (level 2) – LAPENSKI
This course covers reviewing many x-rays and having the participants discover common obstacles to excellent image quality. It will also incorporate biomechanical discussions and theory as well as headpiece placement relative to the subluxation and its reduction.

Intermediate Biomechanics - FITZPATRICK
Basic Types with the resistances encountered and what to do to with LOD and Mastoid Support to overcome those resistances as a review for the first part of the Class followed by Pre-and Post-Case studies. If I get enough Type 1's I will show the variations and how the Biomechanics changes.

S -line - FLORY
This class will be an in-depth review of the S-Line for doctors that have been in practice for a number of years. It will review how to tell what S-Line a Nasium view was taken at and how to correct S-Line errors in patient positioning.

Review of Cases - FLORY
Doctors are encouraged to bring radiographs with them of cases from their practice for review and discussion on case management and how to obtain a better reduction of the ASC.

LEVEL 2 AND 3 COMBINED

Standards Update
This class will review any updates to the standards and protocol of the National Upper Cervical Chiropractic Association (NUCCA).

Cervicocranial Junction
Instructor: Jeffrey Scholten, BSc, DC, DCCJP, FCCJP
Co-Instructor: Heidi Grant, DC, MSc(A), DACNB, FACFN, FACNN, FEAC, FRCC

Overview:
The CCJ (Scholten)

- Anatomy, Biomechanics, Neurophysiology, Advanced Imaging (MRI, CBCT), Current developments in Cerebellar Tonsilar Ectopia (Understanding Chiari).
- CCJ Examination & Integrative care considerations.

Neurology of the Upper Cervical Spine (Grant)

- The basic neuroanatomy and neurology of the upper cervical spine will be reviewed. We will also discuss how to measure and interpret neurophysiological output of the ASC using the pulse oximeter.

Learning Objectives:

- Sharpen understanding of basic principles of the CCJ anatomy, biomechanics, neurology, and neurophysiology (subluxation hypotheses, CSF flow).
- Enhance knowledge of when to utilize Advanced Imaging of the CCJ and how to interpret results.
- Understand current evidence and ongoing investigations into CTE, CSF Flow, Glymphatics; how they are impacted by intervention at the level of the CCJ.
- Deliver overview examination recommendations to allow enrollees to recognize when there may be other variables that may need to be investigated and tools for monitoring ASC reduction.

NUCCA Objective Documentation – PACKER
This class will teach the NUCCA doctors how to document what we do based on the three phases of healing and how to explain to third parties (private insurance, Medicare, personal injury) what we do and how to document it properly, so our care will be clinically supported in the language that 3rd parties can understand and accept as meeting the standards of care.

Research Overview – WOODFIELD
This class summarizes ongoing UCRF funded research projects. Presentations include results of ongoing projects as they apply to reliability and validity of NUCCA assessments, fine-tuning of the NUCCA protocol, and improvements in providing NUCCA patient care as a result of conducted research.

Objectives:

- To understand the importance of research to the sustainability of the NUCCA organization.
- To understand how research findings can be translated to improving patient care and achieving better patient outcomes.

ADVANCED/LEVEL 3

Short Condyles and Osseous Malformations - DICKHOLTZ
Information is this class will help prepare doctors for a wide assortment of osseous malformations that impact the understanding and reduction of the atlas subluxation complex, covering a variety of possible x-ray outcomes attendees will develop an understanding of both normal and abnormal biomechanical situations.

Advanced Biomechanics – YARDLEY
X-rays and schematic presentation of the out of pattern four basic types will be reviewed. Unusual cases with difficult concepts in biomechanics, lever systems and headpiece will be presented. The student will understand the most common difficulties in correcting each of the four basic types. In some cases, two-part correction mechanics will be presented with expectation outcomes will be discussed

Adjusting Concepts - YARDLEY
This class will take the participant beyond the 8 phases and 28 steps in the Triceps Pull Adjustment. We will be developing drills and perspectives designed to leverage the mastery of these basic phases and steps to an even greater understanding of controlling the adjustive forces to facilitate more complete corrections on the most difficult cases.

Advanced Imaging – ZABELIN
This class offers insight into aspects of image quality, from alignment to patient placement, to filtration, and covers digital components as well as analog. Attending DCs are encouraged to bring images from practice for evaluation and constructive ways to improve quality and consistency. Concepts in digital x-ray will be discussed as well.

Advanced Adjusting – CRIPE
The advance adjusting class will incorporate both lecture and practical techniques to assist the doctors in developing and improving their adjusting skills. Time will be spent on discovering each doctor's strengths and weaknesses. Recommendations and tips will be taught by various certified doctors on an individual basis.

Advanced headpiece placement - CRIPE
This class will look deeper into how we are using the head as a biomechanical advantage in the reduction of the subluxation. For example, we will try and answer the question are we really positioning the head the way we think we are?

Understanding the ASC - FLORY
This class will review the misalignment factors that contribute to the Atlas Subluxation Complex (ASC) to give doctors a more in depth understanding of subluxation biomechanics.