



Summary of Course and Qualifications of Instructor(s)

(Retain this form for your records together with your verification of hours.)

Colorado Chiropractic Association ■ 8751 East Hampden Avenue #B-7, Denver, CO 80231

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Course Title: **The Physics Behind the Laser**

Date of Course: Friday, September 29, 2017

CE Hours Applicable: 2 (TWO) CE Hours | 10:00 a.m. - 12:00 p.m.

Location: The Inverness Hotel | 200 Inverness Dr W, Englewood, Colorado 80112

Qualifications of the Instructor:

Dr. L. Frank Jarrell graduated from Life Chiropractic College in 1988 and began developing diagnostic and treatment protocols for enhanced chiropractic outcomes within the first 5 years of his practice.

Dr. Jarrell combines more than 75 years of research and data supporting the “spondylogenic reflex syndrome” (SRS) as an evidence based, pathophysiological entity with his own 24 years of ongoing clinical research into diagnostic and treatment protocol development, and 17 years of testing in sports performance and recovery for U.S. and European professional cyclists, Norwegian, German and English professional football players and for a variety of other sports and athletes. Spinal, AKA Spondylogenic Reflex Analysis is now used by over 1,000 doctors and therapists in the U.S., Europe and Australia.



Frank Jarrell, DC

He is currently the world’s leading expert on the diagnosis, treatment and management of spondylogenic reflex syndromes and has spent the past 6 years integrating high power/high frequency superpulsed lasers into the SRA Diagnostic and Treatment system. This includes laser adjusting procedures with integrated infrared imaging for pre and post validation, neurology driven - bio-identical endogenous opioid pain management procedures and segmental SRS/facet stabilization exercises; all designed for immediate functional objective improvement in patient care.

As an international speaker who teaches and trains on SRS procedures, laser science and advanced techniques throughout the U.S., Europe and Australia, Dr. Jarrell continues to practice exclusively with failed, unresolved and complicated care for chiropractic patients and athletes. He is also the Director of Spinal Reflex Institute, Intl. LLC, a professional post graduate educational portal and is the developer of the Spondylogenic Reflex Analysis (SRA), Spinal Reflex Therapy (SRT), SRA Laser Adjusting, SRA Infrared Diagnostics, 5MinuteBack, 5MinuteBack for Pregnancy and TrueCore Intersegmental Stabilization protocols. He continues to train and teach on laser science and technology under the mentorship of the original developer of the first FDA approved superpulsed high power, high frequency lasers, and past Director of Research at Logan University, Dr. Nelson Marquina, MSc, PhD, DC.

NOTICE: To fulfill the CE requirements of the Colorado Board of Chiropractic Examiners established via rules, you must:

1. Obtain 15 CE hours per year (November 1 - October 31) for a total of 30 every two-year license renewal period. These hours must meet the educational requirements as outlined by the board. Subjects of a clinical nature are generally approved, while subjects such as practice management, managed care, financial management, or personal motivation do NOT qualify.
2. Maintain records of seminar attendance in your files including:
 - .The title, date and hours of the course
 - .Verification of CE hours attended
 - .A synopsis of the course
 - .The qualifications of the instructor
3. The board will perform audits to insure CE compliance.

Please contact the CCA for additional information.

Synopsis of Course:

The goal of this 2 hour presentation is to inform the doctor on the physics behind lasers and its impact on clinical outcomes. Emphasis is on tissue response to different wavelengths and will include the basics of laser science in a no nonsense, down to earth overview of the critical factors governing light therapy. Power, frequency, penetration, transmission of energy, barriers to laser, wavelength absorption coefficients, which wavelengths affect which tissues, a brief on how to get the most out of any laser and a useful guide to separating fact from questionable claims when choosing a laser for your practice will be included.

Course Outline (Note, each topic is approximately 15 minutes)

Presentation

- Real Time Infrared Laser Therapy
- The Physics of Light
- Wavelengths and the Tissues They Effect
- Photochemical and Photomechanical Effects
- Wavelength Relationship to Power, Placement and Time
- Confusion in the Too Little/Too Much Camp
- Biological Effects and Safety
- Summary

Questions

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