



University of the Pacific Arthur A. Dugoni School of Dentistry
125th Alumni Association Annual Meeting – 2024 Alumni Weekend
Including The 38th Frederick T. West Orthodontics Lectureship and
The Inaugural Alan H. Gluskin Endodontics Symposium



L. Stephen Buchanan, DDS '78

Friday, February 9, 2024

9:00 am – 12:00 pm – 3 CE units

Subject Area: Endodontics

Title: "The Art of Endodontics-Anatomy, Diagnosis, Treatment Planning and Emergency Care"

Course Description:

This presentation covers conventional endodontic procedures executed with minimally invasive concepts, tools, and techniques. It begins with descriptions and demonstrations of how to cut MIE access procedures that ensure full-blown convenience form, then instrumentation is explored-with emphasis on rotary negotiation and single-file instrumentation.

Objectives:

- 1) Which coronal landmarks direct ideal access outline form.
- 2) That MIE Access procedures in molars dictate the distal halves of these teeth as "no fly" zones.
- 3) How guided access burs project internal pulp chamber anatomy onto the occlusal surface.
- 4) Why reciprocation is a step backwards in endodontic evolution.
- 5) How to use rotary negotiation files as first file to length.
- 6) Why our objective of instrumentation is to maintain the apical terminus in its original diameter and position.
- 7) The advantages of tapered preparations.

Friday, February 9, 2024

1:30 pm – 4:30 pm – 3 CE units

Title: "The Art of Endodontics MIE- Access, Instrumentation, Irrigation and Obturation"

Course Description:

This presentation on MIE lecture segment is on endodontic irrigation and it looks at all the variables that influence irrigation efficacy including closed-system negative pressure enhancement devices and laser cavitation. The presentation finale shows current concepts of cone-fit and carrier based Obturation, with an emphasis on bio-ceramic sealers.

Objectives:

- 1) Why NaOCl should be used at 8% concentration.
- 2) Why instrumentation should be done with EDTA solution instead of NaOCl.

- 3) How to conefit 15-.03 canal shapes.
- 4) How bioceramic sealers have simplified 3D filling.
- 5) Why air abrasion is the only way to totally clean an access cavity.

Short Bio:

Dr. Buchanan graduated first in his dental school class from The University of the Pacific in 1978. He received his specialty certificate from the Temple University Post-Graduate Endodontic Program in 1980. In 1986, he became a Diplomate of the American Board of Endodontics.

Dr. Buchanan has practiced endodontics since 1980. In 1989, Dr. Buchanan was the first to reconstruct micro-CT scans of endodontic anatomy. He invented the Continuous Wave of Obturation technique in 1990, the first variably-tapered shaping technique in 1991, the first rotary negotiation technique in 2016, and the closed system negative pressure irrigation and filling technique in 2019. His instrument and device designs include: System-B; EOU; ElementsFree obturation heat sources; Buchanan Heat and Hand Pluggers; GT, GTX, and Traverse Rotary Negotiation Files; Buc ultrasonic tips; LAX guided access burs; TrueTooth and TrueJaw 3D-printed procedural training replicas; and most recently, the PulpSucker multi-canular negative pressure irrigation device. For over 30 years, Dr. Buchanan has shared his clinical competency by teaching procedural endodontics at worldwide events and at DEL, a teaching institute in Santa Barbara, California founded by Dr. Buchanan.

<https://delendo.com>