

Harnessing Laser Technology for Dental Practices

Friday, December 6

- 8:00 – 8:30 am** **Registration and Continental Breakfast**
- 8:30 – 10:00 am** **Morning Part 1**
- **Welcome and Introductions**
 - **Overview of Laser and Light-Based and Their Applications**
 - Laser and Light Technology in Today's Oral Health Care
 - **Understanding the Basics of Laser Safety:**
 - Considerations, Regulations, and Requirements
 - Role of the Laser Safety Officer (LSO) and Required Training
 - Components of a facility's Laser Safety Policies and Procedures
 - **Components and Parts of Health Care Laser System (HCLS)**
 - Fiber and Handpiece Care, Management, & Maintenance
 - Infection Control Procedures for the Laser, Handpieces, Tips, and Fibers
- 10:00 – 10:15 am** **Break**
- 10:15 am – 12:00 pm** **Morning Part 2**
- **Understanding Laser Science, Technology & Biophysics**
 - Light wavelengths and their relationship to tissue interactions.
 - The role and value that a laser's power play.
 - Reviewing the composition of biologic structures and understanding its relevance to laser and light interactions
- 12:00 – 1:00 pm** **Lunch provided**
- 1:00 – 3:00 pm** **Afternoon Part 1**
- **What is Photobiomodulation (PBM) and Its Role in Oral Healthcare**
 - The Use of Low-Level Laser Energy to Manage Inflammation, Reduce Pain, and Enhance Healing
 - **What is Photoacoustic Streaming and Its Role in Oral Healthcare**
 - Acoustic waves generated by pulsed laser light inducing a streaming flow in the surrounding fluid
 - **Endodontic Procedures**
 - Enhanced cleaning and irrigation of the root canal system
 - Periapical surgery
 - **Hard Tissue Procedures**
 - Restorative preparations
 - Osseous surgery
 - Debriding an extraction site.
- 3:00 – 3:15 pm** **Break**

- 3:00pm – 5:00 pm Afternoon Part 2**
- **Soft Tissue Applications of Laser and Light-based Technologies in Oral Healthcare**
 - Laser assisted scaling and root planing.
 - Periodontal surgical procedures
 - Other soft tissue procedures
 - **Implant Related Procedures**
 - Debriding an osteotomy site
 - Management and treatment of peri-implantitis

Saturday, December 7

8:30am to 12:00pm Morning Session (Repeated in the Afternoon)

- 8:30 – 9:45 am Morning Session 1**
- Interactive Review and Discussion of Day 1 Topics
 - Overview of the Lasers Participating in the Workshop
- 9:45 am – 10:00 am Break**
- 10:00 am – 12:30 pm Morning Session 2**
- Hands-on Experience Rotations with Various Laser and Light-Related Technologies
- (12:30 – 1:00 pm Break to Reset Room)**

1:00 - 5:00 pm Afternoon Session (Repeat of Morning Session)

- 1:00 – 2:15 am Afternoon Session 1**
- Interactive Review and Discussion of Day 1 Topics
 - Overview of the Lasers Participating in the Workshop
- 2:15 pm – 2:30 pm Break**
- 2:30 – 5 :00 pm Afternoon Session 2**
- Hands-on Experience Rotations with Various Laser and Light-Related Technologies