



Laser & Health  
ACADEMY

# LA&HA Master's Program in Laser Dentistry





# Utilization of Er:YAG & Nd:YAG Lasers in Dentistry:

A Hands-on 2 Day (15 Credit Hour) Workshop for

Dentists, Hygienists & the Dental Team

Dr. Scott Benjamin

Saturday April 15, 2023 from 8am - 5pm

Sunday April 16, 2023 from 8am - 4pm

Sheraton Toronto Airport Hotel & Conference Centre

801 DIXON ROAD, TORONTO ON M9W 1J5



## About the Speaker:

Dr. Scott Benjamin is an internationally recognized expert and lecturer on Dental Lasers, Oral Cancer and Advanced Dental Technologies and is in private practice in rural upstate New York where he utilizes several lasers of different wavelengths on an everyday basis. Dr. Benjamin is Co-Chairman of the ADA Standards Committee Working Group on Dental Lasers, a member of American National Standards Institute (ANSI) Committee Z-136 on Laser Safety and is a Past-President of the Academy of Laser Dentistry (ALD) and was their 2007 and 2010 Scientific Program Chairman. Dr. Benjamin has faculty appointments at several dental schools and is a Past-Chair of the American Dental Educators Association's (ADEA) Lasers in Dentistry Special Interest Group (LiD-SIG) and has been intimately involved in developing the lasers curriculum for dental and hygiene schools throughout North America. He has published over 200 articles on dental lasers and advanced dental technologies and is a member of the editorial board of several prestigious peer reviewed dental journals.

## Dr. Benjamin's Affiliations:

Midwestern University Colleges of Dental Medicine, Adjunct Professor  
University at Buffalo School of Dental Medicine, Visiting Professor  
Eastman Institute for Oral Health at the University of Rochester, Associate Professor  
ADEA's Lasers in Dentistry-Special Interest Group, Past-Chair  
2014-2015 President of the Academy of Laser Dentistry (ALD)  
2018 Recipient of ALD's Distinguished Service Award for Laser Dentistry  
Advanced Technology Section Editor for Compendium, PPAD, and JPH  
Editorial Board of the Journal of Laser Dentistry, Dentistry Today, & Inside Dentistry  
Member of ADA Standards Committee on Dental Products (ADA-SCDP)  
Co-Chair of the ADA-SCDP Working Group on Dental Lasers  
Member of ADA Standards Committee on Dental Informatics (ADA-SCDI)  
Chair of the ADA-SCDI Working Group on Digital Imaging

## Objective of the first module

- The first module of the Master's Program (2 days) represents a comprehensive overview of laser physics, laser interactions with different biological tissues, laser safety, operating a dental laser device and selected treatments.
- The first module is designed to provide basic knowledge to understand different laser treatment methods in dentistry. PHAST Start to Restorative, Soft Tissue Surgery, Endodontics, Perio and Nightlase

## The program for the first module

### Laser physics

- The electromagnetic spectrum and laser wavelengths
- History of lasers
- Basic interaction with tissues
- Construction of a solid-state laser
- Laser parameters
- Laser beam profiles
- Delivery of a laser beam

### Laser safety

- Thermal effects
- Mechanical effects
- Electrical and fire hazards
- Chemical hazards
- Eye hazards and protective goggles
- Laser safety standards and implementation in the dental office

### Laser interactions with biological tissues

- Ablation mechanism
- Transmission mechanism
- Reflection mechanism
- Scattering mechanism
- Hands-on training with all mechanisms

### Operating Fotona dental laser devices

- Technology features (VSP, EFC, QSP)
- Handpieces overview
- Setting parameters
- Device maintenance
- Hands-on operation of the device

Multiple choice test

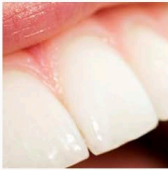


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ACADEMY of  
GENERAL DENTISTRY  
PROGRAM APPROVAL  
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10/1/2021 to 9/30/2025.  
Provider ID# 213325

# A PHAST Start introduction to the various applications that can be implemented in your practice

## Key Treatments



Conservative Dentistry



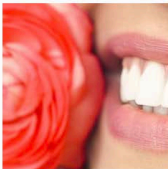
Endodontics



Implantology



Oral Surgery



Peri-implantitis Treatment



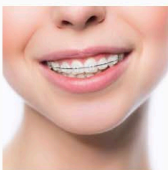
Periodontics



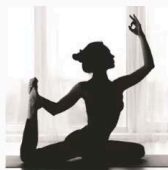
Tooth Whitening



NightLase®



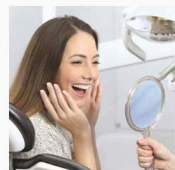
Laser-Assisted Ceramic Debonding



Photobiomodulation and Pain Management



Tooth Desensitization



Facial Aesthetics