



LA&HA Master's Program Overview in Laser Dentistry

Introduction

It's time to boost your professional career in dentistry to new levels by becoming a Master in Laser Dentistry.

The Laser and Health Academy (LA&HA) offers a comprehensive Master's Program that provides everything you need to become a skilled laser specialist. Key benefits of the LA&HA Master's Program include:

- 200 hours of active training by high-level industry experts and skilled professionals in multiple fields of dentistry
- Module-based training in a supportive and highly functional educational setting with the most efficient and up-to-date laser technologies available
- Hands-on clinical training sessions with close supervision at advanced and highly experienced dental laser centers.

Objectives & Curriculum

The LA&HA Master's Program in Laser Dentistry is an educational curriculum designed by the Laser and Health Academy to provide participants with a comprehensive level of knowledge about basic and in-depth laser principles as well as the skills and competency needed for using Fotona dental laser systems in a range of dental specialties.

Participants are required to have a DDS diploma, at least 3-years of experience in dentistry and at least 1 year of experience in laser dentistry. During the Program, participants are expected to gain advanced knowledge, skills and the confidence to use a Fotona dental laser system safely and successfully in their dental practices.

The program consists of theoretical lessons, hands-on activities, individual study, as well as the observation and performance of live clinical operations. After each module, the participant's learning improvement is assessed by examination. By the end of the program, participants are required to perform and present their own 9 laser-assisted clinical cases from among all dental specialties.

After successful participation in the LA&HA Master's program and presentation of their own clinical cases in front of the LA&HA Master Board, participations will receive the title:

LA&HA Master in Laser Dentistry

The award ceremony is held every year during the LA&HA Symposium.

Duration

Participants can finish the LA&HA Master's Program within approximately one year, in five modules for 3-4 days at a time. There is also an option to extend attendance over a maximum of three years.

Between the modules, participants are required to learn by themselves, as well as assess their own knowledge on-line. This modular approach enables participants to implement their knowledge and skills in the dental office immediately after each module. The program involves 200 active hours of training.

Modules should be done in the consecutive order, finishing with Module 5, which should be finished by March/April to be able to graduate in May in the same year.

Graduation takes place each year during the LA&HA Symposium (in May) in Slovenia.

Location

Participants can choose the most appropriate location for the clinical modules from the list of LA&HA's partnering dental education centers (see table below), whereas the location of the first module is at the premises of LA&HA's offices in Ljubljana, Slovenia.

Language

The official language of the LA&HA Master's Program is English, however, if there is a group of participants speaking another language, the lectures can be organized in that language.

Price

Each module costs between 1.500 and 2.100 EUR without VAT per participant. The tuition fee includes comprehensive course documentation, lunches and refreshments during breaks.

Number of Participants

Modules are conducted in a motivating atmosphere with attendance limited to between 6-10 participants.

The application deadline for the 2019 program is **December 7th, 2018**.

LA&HA Master's Program Topics

- Laser physics
- Laser safety
- Laser interactions with biological tissues
- Operating Fotona dental laser devices
- Laser-assisted conservative dentistry
- Laser-assisted endodontics

- Pediatric dentistry with lasers
- Laser-assisted periodontics and soft-tissue surgery
- Laser-assisted orthodontics
- Facial aesthetics and NightLase® laser treatments
- Photobiomodulation and pain control
- Updates on current laser technology and laser applications
- Updates on recently published scientific articles

Faculty

LA&HA provides the most qualified speaker for each topic from a pool of experienced lecturers who cooperate in a variety of workshops and seminars offered by LA&HA.

- **Prof. Stefano Benedicenti**
University of Genoa, Restorative Dentistry and Endodontics, Italy
- **Prof. Dr. Roeland J.G. De Moor, DDS, PhD, MSc**
Ghent University Hospital, Belgium
- **Prof. Carlo Fornaini, MD, DDS, MSc, Professor in Lasers in Medicine**
University of Parma, Italy
- **Assist. Prof. Dragana Gabric, DMD, PhD**
University of Zagreb, Department of Oral Surgery, Croatia
- **Assist. Prof. Boris Gaspirc, DDS, PhD**
University Medical Center's Dental Clinic, Department of Oral Disease and Periodontology, Ljubljana, Slovenia
- **Prof. Dr. Aslihan Usomez, DDS, PhD**
Bezmialem Vakif University, Faculty of Dentistry, Istanbul, Turkey
- **Dr. Ilay Maden PhD, MSc**
Seesaw Dental Education, London, UK
- **Giovanni Olivi, MD, DDS**
InLaser - Advanced Center for Esthetic and Laser Dentistry, Rome, Italy
- **Kresimir Simunovic, DMD, MSc**
Lasersmiles Office for laser assisted Dentistry, Zürich, Switzerland & Dubai, UAE
- **Dr. Zafer Kazak, MSc Lasers in Dentistry**
Advanced Training Center for Lasers, Istanbul, Turkey
- **Peter Åhnblad, MD**
Novum Karolinska University Hospital, Stockholm, Sweden
- **Scott D. Benjamin, DDS**
Roseman University of Health Sciences, College of Dental Medicine, USA
- **Alan Dalessandro, DDS**
Dalessandro Implants & Periodontics, Hoffman Estates, IL, USA
- **David Dovsak, MD, Specialist Surgeon**
Dental – Surgery – Aesthetic center, Ljubljana, Slovenia
- **Jugoslav Jovanovic, DDS**
Private practice in Kozarac – Prijedor, Bosnia and Herzegovina
- **Antonis Kallis DDS, MSc Lasers in Dentistry**
The Institute for Education in Laser Dentistry, Athens, Greece

- **Seto Siu Keung, BDS (HK), DGDGP (UK), MSc (Lond), MSc Lasers in Dentistry**
University of Hong Kong's Faculty of Dentistry, Hong Kong
- **Evgeniy Mironov, DDS**
Dental Studio Mironovi, Sofia, Bulgaria
- **Harvey S. Shiffman, DDS**
Laser Dental Center, Boynton Beach, Florida, US
- **Damir Snjaric, DMD, PhD, MSc**
School of Dental Medicine, Dept. of Restorative Dentistry and Endodontics,
Rijeka, Croatia
- **Doç. Dr. Tosun Tosun DDS, PhD, MSc**
University of Genoa, Department of Surgical and Diagnostic Sciences (DI.S.C.),
Italy
- **Ales Vesnaver, MD, PhD, Specialist Maxillofacial Surgeon**
University Medical Centre, Department of Maxillofacial and Oral Surgery,
Ljubljana, Slovenia
- **Dr. Bogdan Vasile Crisan, MD, PhD, Specialist Maxillofacial Surgeon**
Department of Surgery and Maxillofacial Implantology, University of Medicine
and Pharmacy, Cluj-Napoca, Romania
- **Dr. Linhlan Nguyen, DDS**
Kaleen Dental Care & Facial Aesthetics, Canberra, Australia
- **Lidija Volovec, M.D., Specialist Surgeon**
Medicina Volovec, Brezice, Slovenia

Module Dates and Locations

Dates for 2019/2020 will be determined soon.

Objective of the first module

- The first module of the Master's Program (3 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.

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

Price: 1.500 EUR (+VAT)

Objective of the second module

- The second module of the Master's Program (4 days), undertaken in cooperation with LA&HA's partnering dental education centers, presents detailed insights into the proper use of Fotona lasers in a range of dental specialties.
- The second module is designed to provide deep knowledge to understand different treatment methods with dental lasers.

The program for the second module

Laser-assisted conservative dentistry

- Minimally invasive caries removal, preparation speed
- Deep dentin treatment
- Fissure sealing
- Cavity preparation, cavity sterilization
- Methods for composite fillings and ceramic inlays
- Veneer preparation
- Creation of micro retentive sealings
- Methods for removal of old fillings
- Hands-on training, skill training and live patient demonstrations

Laser-assisted restorative dentistry

Laser-assisted endodontics

- Pulp capping
 - Vital pulpotomy
 - Cleaning and disinfection of the root canal
 - Apisectomy
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- Hands-on training, skill training and live patient demonstrations

Pediatric laser dentistry

- Approaches with children
- Pain and analgesia
- Soft-tissue therapy
- Hard-tissue therapy
- Traumatic injuries
- Pulp capping
- Laser pulpectomy
- Live patient demonstrations

Multiple choice test

Price: 2.100 EUR (+VAT)

Objective of the third module

- The third module of the Master's Program (4 days) is a continuation of the second module with further detailed insights into the proper use of Fotona lasers in additional dental specialties that were not covered in the second module.
- The third module is designed to combine deep knowledge of various dental laser treatment protocols with practical clinical experience.

The program for the third module

Laser-assisted periodontics and soft-tissue surgery

- TwinLight® periodontal treatment (non-surgical and surgical)
- Frenectomy, frenotomy
- Gingivectomy, gingivoplasty, aesthetic recontouring
- Osseous crown lengthening
- Lesions removal (including aphthae and herpes)
- Depigmentation of the gingiva
- Hemangioma and other vascular lesions therapy
- Live patient demonstrations

Hard-tissue surgery

- Sinus lift
- Bone surgery
- Live patient demonstrations

Laser-assisted implantology

- Cleaning and disinfection of implant sites
- Implant exposure
- TwinLight® peri-implantitis treatment
- Live patient demonstrations

Laser-assisted orthodontics

- Enamel preparation for brackets
- Exposure of retained teeth
- Brackets removal (and veneer removal)
- Live patient demonstrations

Photobiomodulation and pain control

- Theoretical principles of biomodulation
- Wound and bone healing
- Pain reduction
- Anti-inflammatory effects

Multiple choice test

Price: 2.100 EUR (+VAT)

Objective of the fourth module

- The fourth module of the Master's Program (3 days) covers facial and oral aesthetic laser treatments, which are available only with Fotona lasers.
- The fourth module is designed to broaden the participants' knowledge with extra treatments that are available with their Fotona laser system.

The program for the fourth module

Facial aesthetics laser treatments

- Differences between setting parameters for dental and aesthetic treatments
- Facial skin resurfacing
- Facial pigmented lesions removal
- Permanent facial hair reduction
- Facial vascular lesions removal
- Live patient demonstrations

NightLase® laser treatments

- NightLase® anti-snoring treatment
- Live patient demonstrations

TouchWhite® laser treatments

Multiple choice test

Price: 2.100 EUR (+VAT)

Objective of the fifth module

- The fifth module of the Master's Program gives participants in-depth information about laser technology, applications and science, or
- Optionally, the fifth module can be tailored to provide detailed clinical experiences and insights in daily dental laser practice.

The program for the fifth module

Option 1 – Theoretical expertise

- Review of scientific articles about laser technology and applications
- Preparation and publication of scientific article in LA&HA Journal.

Option 2 – Clinical expertise

- 3-days stay in one of LA&HA's partnering dental offices to observe and assist with laser treatments (office organization, sterilization, marketing,...)
- Presentation of clinical cases

Date and location: to be determined individually

Price: 1.500 EUR (+VAT)

Application Deadline

The application deadline for the 2019/2020 LA&HA Master's Program is **December 7th, 2018**.

Questions

For further questions or a program application form, please contact the LA&HA office: info@laserandhealth.com.