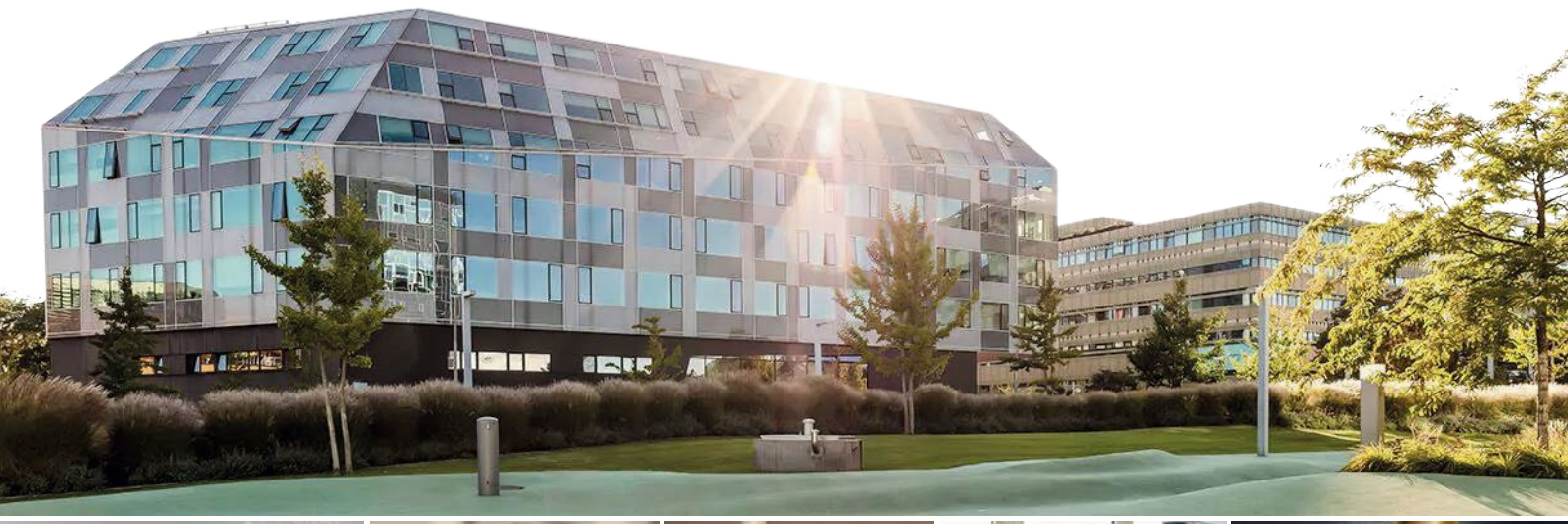


SIGMUND FREUD
UNIVERSITY
VIENNA



MASTER PROFESSIONAL PROGRAM

LASERS IN DENTISTRY

SOUTH AFRICA:

MODULE WORKSHOP SERIES

Starts 18 Feb 2024

*Your Pathway to a Mastership or Master Professional (MSc.) Degree
from Sigmund Freud University [SFU] and the Aachen Dental Laser Center [AALZ].*

In Association with **SciVision**

South African Partner

scivisionmedical.com/mastershipcourses



From the Heart of Europe | Vienna to South Africa

The modules now available are a subset of the full [SFU] Sigmund Freud University Master Professional and Mastership program "Lasers in Dentistry," and successful participants qualify for an upgrade into that program if the participant so decides. This gives the participant the opportunity to complete the final examination module (including case presentations) in Vienna, Austria at year-end, available annually. *(And in some cases, especially Mastership, online examinations are also available, for those not wanting to travel.)*

This program is offered and conducted by AALZ Aachen Dental Laser Center, with certain modules offered live in South Africa in association with SciVision Medical. More modules will be announced at various times, giving South Africans the opportunity to complete more of the Master program modules.

SOUTH AFRICA

Now Open for Application

Laser Safety Officer Course [1 Day]

Centurion, South Africa

Sun, 18 Feb 2024

This LSO module course is required to participate in other module workshops.

[Apply Here](#)

Lasers in Endodontics [2 Days]

Centurion, South Africa

Mon, 19 Feb - Tue 20 Feb 2024

Limited Delegates

[Apply Here](#)

scivisionmedical.com/mastershipcourses





An Epic Adventure of Light.
The journey is yours to start!

LASERS IN DENTISTRY
MASTER PROFESSIONAL PROGRAM MODULES
SOUTH AFRICA
FEBRUARY 2024



LASERS IN DENTISTRY

Module Workshop Series

Ready to take yourself to the next level?

The postgraduate Master / Mastership Programs for Lasers in Dentistry are aimed at dentists who want keep pace with their patients' wishes for innovative and gentle treatment methods.

Th Module Workshops are designed to provide you with the knowledge and skills you need to master the use of lasers in a variety of dental procedures, and the flexibility to do one or more modules that earn you ECTS credits that don't expire, should you want to upgrade your qualification in the future.

With modules on laser safety, endodontics, periodontics, aesthetics, and orthodontics, these module workshops are ideal for specialists and dentists looking to focus, dive deeper into certain procedures, expand their services and improve patient outcomes through the expert use of laser-supported treatments.

In standard academic studies in dentistry, dentists have never learned about dental laser technology and treatment concepts. Building on a university degree in dentistry, the necessary professional knowledge for laser applications in dental practice is taught at the highest academic level in theoretical lectures and practical teaching for two selected wavelength areas - dental Erbium lasers and dental diode lasers. Relevant theories and application options pertaining to laser use in dentistry are taught for those wavelengths.

Participants obtain sound theoretical knowledge in lectures and seminars led by renowned, qualified and experienced international scientists and practitioners. Skill training sessions, exercises, practical applications, and live operations guide participants towards using lasers successfully and professionally in their own treatments.

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Workshop 2: **Lasers in Endodontics** - Page 17 **Mon 19 Feb & Tue 20 Feb 2024, Centurion, [Apply Now](#)*

Workshop 3: **Lasers in Periodontics & Implantology** - Page 20 **Coming Soon*

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Enquiries

Call / WhatsApp +27 84 405 8025

Email info@scivisionmedical.com

Introduction

Dentistry is constantly evolving, and as a modern dental practitioner, it is essential to stay up-to-date with the latest techniques and technologies. One such technology that has revolutionized the field of dentistry is the use of lasers. Lasers have been used in dentistry for over 30 years and have been proven to be a safe and effective tool for a wide range of dental procedures. In this essay, we will discuss the importance of incorporating lasers into your practice and the benefits of taking this laser dentistry course.

The use of lasers in dentistry has numerous benefits, including **improved patient outcomes, reduced treatment time, and increased precision**. For example, laser-assisted endodontics can *improve the success rate of root canal therapy*, and laser-assisted periodontics can help to *reduce bleeding, swelling, and pain during procedures*. Additionally, laser-assisted dental aesthetics can be used to *reshape gums and teeth*, providing patients with a more attractive smile.

Moreover, the use of lasers in dentistry can also help to **increase the efficiency of procedures**, which can lead to *cost savings for both the practitioner and the patient*. For example, *laser-assisted bleaching can be performed in a quicker single visit with much less to no pain compared to traditional in-chair treatments*. Additionally, *laser-assisted implantology can also help to reduce the need for bone grafting, which can save both time and money*.

About the Module / Workshop Series

This module workshop series in laser dentistry is designed with the specialist in mind, to provide specialists and dentists with the knowledge and skills needed to master the use of lasers in a variety of dental procedures, but especially focusing on the procedures most interested in [compared to the traditional Mastership format which covers an overview of the full spectrum over 10-12 days in total]. Specialists or many dentists today choose to specialise in certain procedures, and this format allows for a deeper focus in the chosen modules.

The module / workshop options consist of a series of 2-day modules, including the laser safety officer certification (1-day), followed by the options of lasers in endodontics, lasers in periodontics, lasers in dental aesthetics, pediatrics, PBMT, and lasers in orthodontics. The modules can be taken in any order, with the requirement that the LSO (Laser Safety Officer) module be completed first, as the foundation or even on its own (and is also open to non-clinicians). The other modules, one or more can be taken in any order after LSO, and not all modules are compulsory.

The course / workshops are taught by AALZ faculty and industry experts with years of practical and academic research experience in the field to provide you with the latest techniques and methods to accurately incorporate lasers into your practice. Earning continuing education credits also makes it an excellent investment for any modern dentist looking to stay ahead of the curve and invest in efficiency and growth.

BIOLASE
LEADER IN DENTAL LASERS™

Waterlase
Laser Dentistry

Waterlase
CROWN & VENEER REMOVAL

REMOVE CROWNS & VENEERS
IN UNDER 5 MINUTES

Don't have a laser/s? No Problem.

In South Africa, AALZ & SFU have once again partnered with leading laser technology provider, SciVision Medical for the 6th year, who have committed to supporting local participants with or without access to laser/s by making the necessary equipment available in various wavelengths to this program's participants in order to gain experience, (or to complete the 5 cases required for the case presentation if upgrading and completing the final Mastership Exam).

Learn while gaining practical experience with the world's best laser technologies!

Apply Today!

SciVision



Fees & Credits

Laser Safety Officer Course [LSO]

- 1 ECT
- 1 Day
- Includes online examination completed after the workshop, remotely.
- Complete LSO on its own, or complete more workshops if you choose.
- €600 ex vat for LSO on its own / €400 ex vat Combo fee with another module workshop
Approximately R8000 to R12 500 ex vat [Converted at time of invoice.]
 - *This course can be completed by anyone in the dental practice.*
 - *LSO is a prerequisite before any other module*
 - *Clinicians who have not yet completed the LSO are encouraged to take this course now (18 Feb 2024) if you plan to do other, future AALZ laser modules (if the scheduled Endo module workshop is not your choice). Take advantage of the LSO course presented in person with Physicist Rene now!*
 - *Past Mastership participants have already completed LSO, therefore already have this credit.*

Module / Workshop of Choice

Lasers in: Endodontics / Periodontics / Dental Aesthetics / Orthodontics / Photobiomodulation (PBMT) / Paediatric Dentistry / Facial Aesthetics

**Scheduled for various dates, announced at various times*

- 2 ECTS each
- 2 Consecutive Days
- Includes online examination completed after the workshop, remotely.
- Complete as many modules as you'd like, anywhere in the world, with no time-limit.
- €1500 ex vat per module / 2-day workshop focus
Approximately R30 600 ex vat [Converted at time of invoice.]
Payment Plan Available in South Africa
 - *These Module Workshops are an integrated part of the SFU Master Professional program "Lasers in Dentistry" and successful participants qualify for an upgrade into the Mastership or Master Professional (MSc.) Degree program if the participant so decides, upon successful completion of the module/s. **Complete LSO + 3 of these Module Workshops and qualify for the Mastership Final Exam.***

Fee Examples:

COMBO

LSO (1 Day Course) + Endo Module Workshop (2-Day Course)

= €400 + €1 500

Total: €1 900 ex vat

Total: R 38 845 ex vat / R44 672 incl. vat

Registration Deposit: R5 000 incl. vat which is deducted from total fee. Balance of R39 672 payable in 3 payments.

Or

SINGLE MODULE

Endo Module Workshop (2-Day Course)

**Or any other module 2-day workshop or exam module only*

Total: €1 500 ex vat per module

Total: R 30 667 ex vat / R35 268 incl. vat

Registration Deposit: R5 000 incl. vat which is deducted from total fee. Balance of R30 268 payable in 3 payments.

**Conversion to Rands is subject to exchange rate fluctuations.*

Upgrades....



Optional Upgrades & Benefits

Your Pathway to your Mastership or Master Professional (MSc.) Degree from Sigmund Freud University [SFU] and the Aachen Dental Laser Center [AALZ].

Optional: Complete the Laser Safety Officer [LSO] 1-Day Course + 3 Modules (2 days each) to qualify for the final Mastership Exam Module.

These module 2-day workshop courses form an integrated part of the SFU Master Professional program "Lasers in Dentistry" and successful participants qualify for an upgrade into the Mastership or Master Professional (MSc.) Degree program if the participant so decides upon successful completion of the module/s.

By completing the Laser Safety Officer Certification Course (LSO) with any 3 other Mastership Module Workshops (such as Lasers in Endodontics, Periodontics, Surgery, Implantology, Pediatric Dentistry, Orthodontics, Low-Level Laser / Photobiomodulation Therapy (PBMT) or Facial Aesthetics), you will qualify for the final examination module at Vienna's Sigmund Freud University, where you will present 5 clinical cases and complete the written exam to graduate with a Mastership in Laser Dentistry. This is completely optional and gives you the flexibility to complete only the modules you're interested in, or simply the opportunity to complete more modules, as well as the opportunity to complete the exam module for the Mastership qualification which is available every December in Vienna. You may also decide to take it further, to Master Professional (MSc.).

Complete as many modules as you'd like, anywhere in the world, with no time-limit.

Optional Upgrade to Mastership Lasers in Dentistry Diploma

Mastership Final Exam Module [Optional]

- 8 ECTS
- 2-3 Days in Vienna at SFU, usually December (Online option will be available also)
- Consists of 1 day of recap lectures with Dr Rene Franzen, case presentations (5 Clinical laser-supported cases, partner SciVision may assist with laser/s), written exam, graduation ceremony and dinner (formal).
- €1500 ex vat

The ECTS accreditation for the modules or the complete “Mastership Lasers in Dentistry” are as follows:

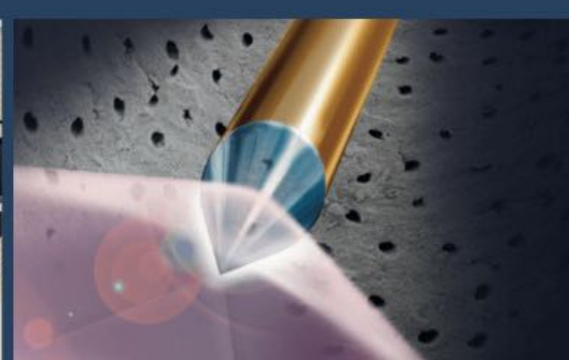
- **Laser Safety Officer Course: 1 ECT**
 - Includes online examination completed after the workshop, remotely.
- **Module / Workshop of Choice: 2 ECTS**
 - Includes online examination completed after the workshop, remotely.
- **Module / Workshop of Choice: 2 ECTS**
 - Includes online examination completed after the workshop, remotely.
- **Module / Workshop of Choice: 2 ECTS**
 - Includes online examination completed after the workshop, remotely.
- **Mastership Final Exam: 8 ECTS**
 - Recap Lectures with Dr Rene Franzen
 - Case Presentations (5 Clinical Cases)
 - Written Exam
- **Total 15 ECTS***

**ECTS means "European Credit Transfer System." 1 point of workload means 25 hours of working, studying and education.*

MASTERSHIP LASERS IN DENTISTRY | MODULE COURSES

ADVANCED ENDO COURSE + LSO

18-20 FEB 2024



SIGMUND FREUD
UNIVERSITY
VIENNA



AALZ 
WORLD ACADEMY FOR LASER EDUCATION
IN DENTISTRY

LECTURERS

Priv.-Doz. Dr. rer. medic. Dr Rene Franzen
Physicist & Scientific Director AALZ
Laser Safety Officer 1-Day Module Course
18 Feb 2024, Centurion

Dr Miguel R. Martins
DDS, MSc, PhD
Endodontics 2-Day Module Workshop
19 & 20 Feb 2024, Centurion

[Learn More](#)

Overview of offered AALZ Module Workshops

| AALZ Workshop Name | Duration (days) | Credit Points (ECTS) | Description |
|------------------------------------|-----------------|----------------------|---|
| LSO (Laser Safety Officer) | <u>1</u> | 1 | This workshop covers the basics of laser safety, laser physics, and the responsibilities of a laser safety officer. |
| Lasers in Endodontics | 2 | 2 | This workshop covers the clinical use of lasers in endodontic procedures, including indications, contraindications, and hands-on training. |
| Lasers in Periodontics | 2 | 2 | This workshop covers the clinical use of lasers in periodontic procedures, including indications, contraindications, and hands-on training. |
| Lasers in Dental Aesthetics | 2 | 2 | This workshop covers the clinical use of lasers in aesthetic dental procedures, including indications, contraindications, and hands-on training. |
| Lasers in Orthodontics | 2 | 2 | This workshop covers the clinical use of lasers in orthodontic procedures, including indications, contraindications, and hands-on training. |
| Photo-biomodulation Therapy (PBMT) | 2 | 2 | This workshop covers the use of PBMT in dentistry, including indications, contraindications, and clinical protocols. It will also cover the principles, mechanism of action, safety and potential side effects of PBMT. |
| Lasers in Pediatric Dentistry | 2 | 2 | This workshop covers the clinical use of lasers in pediatric dental procedures, including indications, contraindications, and hands-on training. |
| Lasers in Facial Aesthetics | 2 | 2 | This workshop covers the use of lasers in facial aesthetic procedures, including indications, contraindications, and clinical protocols. It will also cover the safety and potential side effects of these procedures. |

Note: The LSO workshop must be completed first, and all other modules can be selected as needed, with the option of not taking them all.

Each workshop is worth 2 credit point (ECTS)* and includes 16 hours of teaching and 9 hours of self-study, including the LSO workshop which is worth 1 credit point and includes 8 hours of teaching and 17 hours of self-study.

*Note that 1 ECTS point is defined as 25 - 30 hours of workload, including both class hours (so called „contact teaching“) and independent study hours (so called „self-study“).

Workshop 1: Laser Safety Officer “LSO “

Curricular Description:

This workshop is designed to provide participants with the knowledge and skills necessary to function as a Laser Safety Officer (LSO) in a dental setting. Topics covered include laser physics, laser safety regulations and guidelines, and the responsibilities and duties of an LSO.

This workshop is worth 1 ECTS credit points and includes 8 hours of teaching with an additional approximate 17 hours of self study for risk analysis in the participant’s own dental clinic. An online examination will be available to the participants after the self-study time to confirm successful completion and will award a certificate.

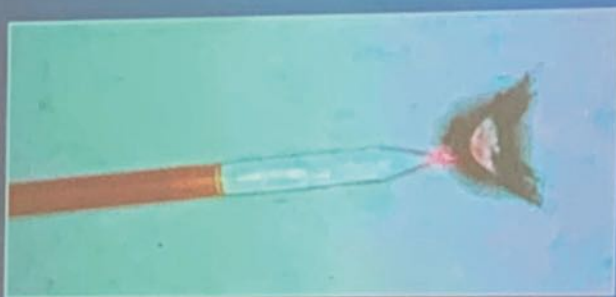
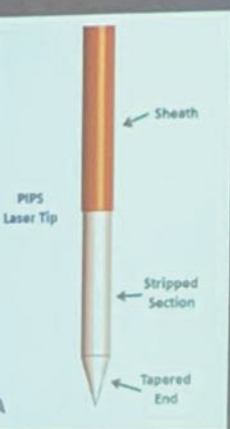
Pictured: Dr Rene Franzen, Physicist in his enlightening Physics LSO course.

Centurion
18 Feb 2024

APPLY NOW



anced Emission Photo-acoustic Streaming

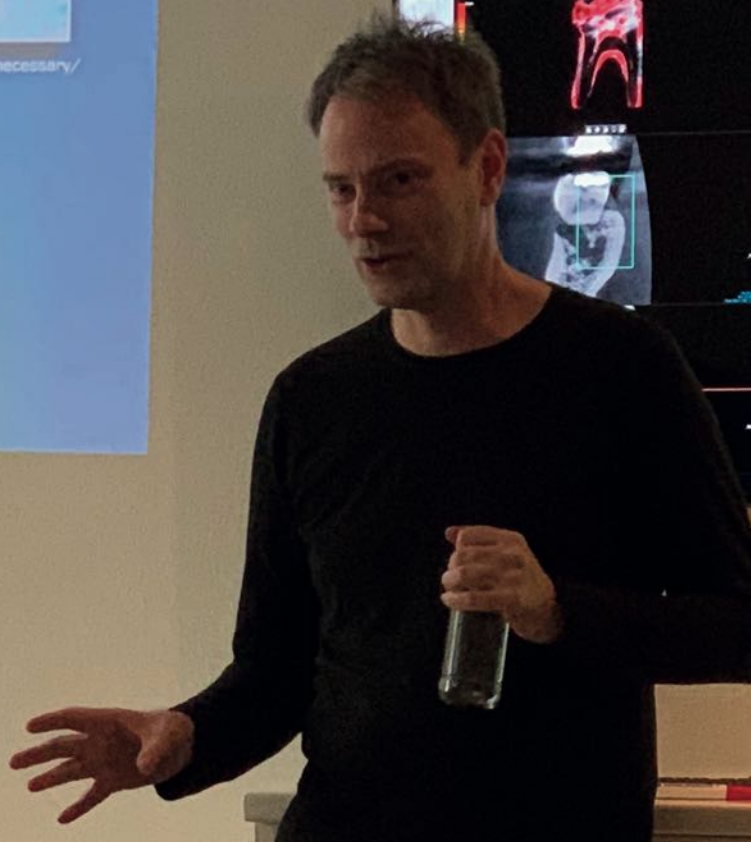
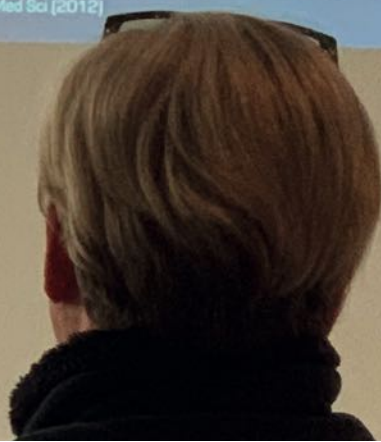


<http://www.capedental.com/2011/eryag-laser-pps-is-the-radial-shaped-tip-necessary/>

tips-and-retreatment-n1131

Since 2012
400-600µm stripped tip, 9-14mm long
Low energy pulses [25-30mJ]
LAI [Laser Activated Irrigation]
Fibre stationary at...canal orifice, middle third, 5mm from apex....?

YAG laser and new design radial and stripped tips in removing the smear layer after root canal instrumentation
E. Divito & O. A. Peters & G. Olivi @ Lasers Med Sci (2012)



LSO Schedule:

Day 1:

- Introduction to laser physics
- Review of common dental laser systems
- Overview of laser safety regulations and guidelines
- Overview of LSO responsibilities and duties
- Examination and certification (online)

| Time | Day 1 |
|---------------------|--|
| 9:00 AM - 10:30 AM | Overview of basic physics of light and lasers |
| 10:30 AM - 12:00 PM | Generation of laser light and its properties, wavelengths and spectrum, absorption of laser radiation in biological tissues |
| 12:00 PM - 1:00 PM | Lunch Break |
| 1:00 PM - 3:00 PM | Laser-tissue interaction mechanisms. Pulsing and different modes of laser operations |
| 3:00 PM - 6:00 PM | Laser classes EN60825.1, eye hazards and protection, primary, secondary, tertiary hazards and protective measures, staff safety, patient safety, treatment room safety, duties of the laser safety officer |
| online | Examination and certification, online at own time (separate day) after risk-assessment of own clinic and exam preparation. |

Workshop 2: Lasers in Endodontics

Centurion
19 & 20 Feb 2024

APPLY NOW



A Deep Dive into Endo, Laser-Powered!

Why use Lasers in Endo?

The most critical factors of an Endo treatment is cleaning, debridement and disinfection of the root canal.

This is where lasers change the game in your practice, and save you a lot of time. (Apart from all the other laser-supported procedures performed by other specialists and General Practitioners.

By using innovative therapy concepts, based on specific laser-tissue interactions, scientific and clinical findings, you will be able to boost your endodontic outcomes, overcoming the limitations and hazardous effects of conventional techniques.

Pictured: Dr Miguel Martins, Specialist Endodontist with past students



Become one of the pioneers of Expert Laser use in Endodontics

This advanced laser Endodontic course welcomes general dentists with special interest for root canal treatments and/or endodontic specialists which would like to integrate the ultimate endodontic techniques assisted by dental laser(s) in their daily practice.

By using innovative therapy concepts, based on specific laser-tissue interactions, scientific and clinical findings, you will be able to boost your endodontic outcomes, overcoming the limitations and hazardous effects of conventional techniques.

Moreover, you will be able to distinguish yourself from your peers while providing high-standard treatments based in breakthrough technological developments and techniques. Furthermore, you will be able create new business potentials and marketing strategies for your dental office by increasing and broadening your field of expertise.

Curricular Description

This course aims to provide theoretical backgrounds, scientific support, clinical indications and skill training (patient demo's possible upon treatments) as integral parts of the Curriculum.

For such purpose, the latest and advanced Endodontic techniques will be presented as integrated parts of this laser-assisted endodontic Course.

The biophysical basic interaction concepts and laser safety fundamentals are included in the course program. Thus, the technical steps towards a responsible usage of a laser will be demonstrated.

All laser clinical indications within the field of endodontics (e.g. 2780nm Er,Cr:YSGG laser and the 940nm diode laser) will be explained, presented in detail and demonstrated. You learn all clinical possibilities and indications in the skill training.

By attending this workshop you will be able to improve patient's expectations and decrease your work-related stress by increasing your self-confidence and endodontic outcomes.

Content

We will provide all endodontic materials for pre-clinical RC Treatment (e.g. endodontic files & obturation materials)

Try different wavelengths and understand the possibilities while combining different lasers.

Each participant shall bring minimum 3 extracted teeth with access cavity performed (3-D models will be also provided).

Possibility to upgrade your laser knowledge by enrolling in any of the Lasers in Dentistry Masterships - AALZ at Sigmund Freud University, worldwide. All fees and contents covered in this advanced laser-endodontic programme will be subtracted.

This workshop is designed to provide participants with an in-depth understanding of the clinical use of lasers in endodontic procedures. Building on the knowledge acquired in the LSO workshop, participants will learn about the different types of laser systems available and their specific applications in endodontic treatments such as disinfection of root canals, removal of hard tissue, and obturation of root canals. The workshop will also cover the indications, contraindications, and clinical protocols for laser use in endodontics. This workshop is worth 2 ECTS credit point and includes 16 hours of teaching and 34 hours of self-study.

An online examination will be available to the participants after the self-study time to confirm

Schedule:

Day 1:

- 2.94 μm Er:YAG and 2.78 μm Er, Cr:YSGG Lasers
- The 450, 810, 940 and 980nm DIODE lasers
- Combining different wavelengths
- Pulp capping & Pulpotomies, Photodynamic Therapies (PDT, aPDT)
- AALZ clinical recommendations

Day 2:

- Advanced endo & apical surgery
- Laser-Assisted Endodontic Micro-Surgery
- Case studies
- Review and examination to assess knowledge and skills

| Time | Day 1 | Day 2 |
|---------------------|--|--|
| 9:00 AM - 10:30 AM | Rationale to support laser-assisted endodontics Laser Biophysical Interactions in Endodontics Er:YAG and Er, Cr:YSGG Lasers Laser-induced cavitation (LAI) Laser-Assisted Irrigation PIPS and SWEEPS® (Er:YAG) RFT® (Er,Cr: YSGG) | ADVANCED ENDO § APICAL SURGERY •Endodontic complications: Why Lasers? •Laser-induced negative pressure •Drainage of apical inflammatory content •Fistulas' approach •Dealing with Large AP / Cysts-like lesions •Intricate Root canal anatomies • Laser-assisted RE-treatments •Open apices and Apical Resorptions •Endodontic traumatology •Lasers for all iatrogenic damages •Root canal Sclerosis/calcifications |
| 10:30 AM - 12:00 PM | The 450, 810, 940 and 980nm DIODE lasers: selecting the appropriate wavelengths Modes of operation and protocols | |
| 12:00 PM - 1:00 PM | Lunch Break | Lunch Break |
| 1:00 PM - 3:00PM | Combining different wavelengths: The Dual-wavelength concept | Laser-Assisted Endodontic Micro-Surgery: incision, bone ablation, granulation tissue removal, apicectomy, retro-preparation, bone cavity and canal disinfection, suture bandage. |
| 3:00 PM - 4:30 PM | Introduction and approaches to: Pulp capping & Pulpotomies Photodynamic Therapies (PDT, aPDT). | Case studies discussion and review |
| 4:30 PM - 6:00 PM | AALZ clinical recommendations video-demos & pre-clinical training | Preparation for examination and conclusion of the workshop |

Workshop 3: Lasers in Periodontics and Implantology

Curricular Description:

This workshop is designed to provide participants with an in-depth understanding of the clinical use of lasers in periodontal and implant procedures. Building on the knowledge acquired in the LSO workshop, participants will learn about the different types of laser systems available and their specific applications in periodontal treatments such as gingival contouring, disinfection of periodontal pockets, and soft tissue management. Additionally, participants will learn about the indications, contraindications, and surgical protocols for using lasers in implantology procedures such as implant surface decontamination and soft tissue management around implant sites. The workshop will also cover the basic of dental implantology and its relation with periodontology.

This workshop is worth 2 ECTS credit point and includes 16 hours of teaching and 34 hours of self-study. An online examination will be available to the participants after the self-study time to confirm successful completion and will award a certificate.

Schedule:

Day 1:

- Overview of laser systems and their applications in periodontics
- Indications and contraindications for laser use in periodontics
- Clinical protocols for laser use in periodontal procedures such as gingival contouring, disinfection of periodontal pockets, and soft tissue management
- Basic of dental implantology and its relation with periodontology

Day 2:

- Hands-on training in laser procedures and protocols related to periodontology and implantology
- Simulation exercises and case studies
- Review and examination to assess knowledge and skills

| Time | Day 1 | Day 2 |
|---------------------|---|---|
| 9:00 AM - 10:30 AM | Overview of laser systems and their applications in periodontics and implantology | Hands-on training in laser procedures and protocols specific to periodontics and implantology |
| 10:30 AM - 12:00 PM | Indications and contraindications for laser use in periodontics and implantology | continued: Hands-on training |
| 12:00 PM - 1:00 PM | Lunch Break | Lunch Break |
| 1:00 PM - 3:00 PM | Clinical protocols for laser use in periodontic and implant procedures | Review and examination to assess knowledge and skills |
| 3:00 PM - 4:30 PM | Basic principles of dental implantology and its relation with periodontology | Case studies discussion and review |
| 4:30 PM - 6:00 PM | Case studies discussion and review | Preparation for examination and conclusion of the workshop |

Please note that this schedule provides a general outline and the actual workshop may have different timing, depending on the specific curriculum and teaching style of the course.

Workshop 4: Lasers in Dental Aesthetics

Curricular Description:

Schedule:

Day 1:

- Overview of laser systems and their applications in aesthetic dentistry
- Indications and contraindications for laser use in aesthetic dentistry
- Clinical protocols for laser use in aesthetic procedures such as teeth whitening, gingival recontouring, and soft tissue management

Day 2:

- Hands-on training in laser procedures and protocols
- Simulation exercises and case studies
- Review and examination to assess knowledge and skills

| Time | Day 1 | Day 2 |
|---------------------|---|---|
| 9:00 AM - 10:30 AM. | Overview of laser systems and their applications in dental aesthetics | Hands-on training in laser procedures and protocols specific to dental aesthetics |
| 10:30 AM - 12:00 PM | Indications and contraindications for laser use in dental aesthetics | continued: Hands-on training |
| 12:00 PM - 1:00 PM | Lunch Break | Lunch Break |
| 1:00 PM - 3:00 PM | Clinical protocols for laser use in aesthetic dental procedures | Review and examination to assess knowledge and skills |
| 3:00 PM - 4:30 PM | Case studies discussion | Case studies discussion and review |
| 4:30 PM - 6:00 PM | Review, Q&A | Preparation for examination and conclusion of the workshop |

Please note that this schedule provides a general outline and the actual workshop may have different timing, depending on the specific curriculum and teaching style of the course.

Workshop 5: Lasers in Orthodontics

Curricular Description:

This workshop is designed to provide participants with an in-depth understanding of the clinical use of lasers in orthodontic procedures. Building on the knowledge acquired in the LSO workshop, participants will learn about the different types of laser systems available and their specific applications in orthodontic treatments such as soft tissue management, generation of a suitable retentive surface for the brackets, and debonding. The workshop will also cover the indications, contraindications, and clinical protocols for laser use in orthodontics.

This workshop is worth 2 ECTS credit point and includes 16 hours of teaching and 34 hours of self-study. An online examination will be available to the participants after the self-study time to confirm successful completion and will award a certificate.

Schedule:

Day 1:

- Overview of laser systems and their applications in orthodontics
- Indications and contraindications for laser use in orthodontics
- Clinical protocols for laser use in orthodontic procedures such as soft tissue management, generation of a suitable retentive surface for the brackets, and debonding

Day 2:

- Hands-on training in laser procedures and protocols
- Simulation exercises and case studies
- Review and examination to assess knowledge and skills

| Time | Day 1 | Day 2 |
|---------------------|--|--|
| 9:00 AM - 10:30 AM | Overview of laser systems and their applications in orthodontics | Hands-on training in laser procedures and protocols specific to orthodontics |
| 10:30 AM - 12:00 PM | Indications and contraindications for laser use in orthodontics | continued: Hands-on training |
| 12:00 PM - 1:00 PM | Lunch Break | Lunch Break |
| 1:00 PM - 3:00 PM | Clinical protocols for laser use in orthodontic procedures | Review and examination to assess knowledge and skills |
| 3:00 PM - 4:30 PM | Case studies discussion | Case studies discussion and review |
| 4:30 PM - 6:00 PM | Review, Q&A | Preparation for examination and conclusion of the workshop |

Please note that this schedule provides a general outline and the actual workshop may have different timing, depending on the specific curriculum and teaching style of the course.

Workshop 6: Photo-biomodulation therapy (PBMT)

Curricular Description:

This workshop is designed to provide participants with an in-depth understanding of the use of photobiomodulation therapy (PBMT) in dentistry. Participants will learn about the different types of PBMT systems available and their specific applications in various dental procedures such as wound healing, pain management, and tissue regeneration. The workshop will cover the principles of PBMT, indications, contraindications, and clinical protocols for its use. Participants will also learn about the mechanism of action, safety, and potential side effects of PBMT.

This workshop is worth 2 ECTS credit point and includes 16 hours of teaching and 34 hours of self-study. An online examination will be available to the participants after the self-study time to confirm successful completion and will award a certificate.

Schedule:

Day 1:

- Overview of PBMT systems and their applications in dentistry
- Principles of PBMT
- Indications and contraindications for PBMT use in dentistry
- Clinical protocols for PBMT in various dental procedures

Day 2:

- Hands-on training in PBMT procedures and protocols
- Simulation exercises and case studies
- Review and examination to assess knowledge and skills

| Time | Day 1 | Day 2 |
|---------------------|---|--|
| 9:00 AM - 10:30 AM | Overview of PBMT and its application in dentistry | Hands-on training in PBMT procedures and protocols specific to dentistry |
| 10:30 AM - 12:00 PM | Indications and contraindications for PBMT use in dentistry | Continued: Hands-on training |
| 12:00 PM - 1:00 PM | Lunch Break | Lunch Break |
| 1:00 PM - 3:00 PM | Dosimetry, clinical protocols for PBMT use in dentistry | Review and examination to assess knowledge and skills |
| 3:00 PM - 4:30 PM | Case studies discussion | Case studies discussion and review |
| 4:30 PM - 6:00 PM | Review, Q&A | Preparation for examination and conclusion of the workshop |

Please note that this schedule provides a general outline and the actual workshop may have different timing, depending on the specific curriculum and teaching style of the course.

Workshop 7: Lasers in Pediatric Dentistry

Curricular Description:

This workshop is designed to provide participants with an in-depth understanding of the clinical use of lasers in pediatric dental procedures. Building on the knowledge acquired in the LSO workshop, participants will learn about the different types of laser systems available and their specific applications in pediatric treatments such as soft tissue management, decay removal and pulpotomy. The workshop will also cover the indications, contraindications, and clinical protocols for laser use in pediatric dentistry, as well as the specific considerations when working with children.

This workshop is worth 2 ECTS credit point and includes 16 hours of teaching and 34 hours of self-study. An online examination will be available to the participants after the self-study time to confirm successful completion and will award a certificate.

Schedule:

Day 1:

- Overview of laser systems and their applications in pediatric dentistry
- Indications and contraindications for laser use in pediatric dentistry
 - Clinical protocols for laser use in pediatric procedures such as soft tissue management, decay removal and pulpotomy
- Specific considerations when working with children

Day 2:

- Hands-on training in laser procedures and protocols specific to pediatric dentistry
- Simulation exercises and case studies
- Review and examination to assess knowledge and skills

| Time | Day 1 | Day 2 |
|---------------------|---|---|
| 9:00 AM - 10:30 AM | Overview of laser systems and their applications in pediatric dentistry | Hands-on training in laser procedures and protocols specific to pediatric dentistry |
| 10:30 AM - 12:00 PM | Indications and contraindications for laser use in pediatric dentistry | continued: Hands-on training |
| 12:00 PM - 1:00 PM | Lunch Break | Lunch Break |
| 1:00 PM - 3:00 PM | Clinical protocols for laser use in pediatric dental procedures | Review and examination to assess knowledge and skills |
| 3:00 PM - 4:30 PM | Case studies discussion | Case studies discussion and review |
| 4:30 PM - 6:00 PM | Review, Q&A | Preparation for examination and conclusion of the workshop |

Please note that this schedule provides a general outline and the actual workshop may have different timing, depending on the specific curriculum and teaching style of the course.

Workshop 8: Lasers in Facial Aesthetics

Curricular Description:

This workshop is designed to provide participants with an in-depth understanding of the use of lasers in facial aesthetic procedures. Participants will learn about the different types of laser systems available and their specific applications in facial treatments such as skin resurfacing, hair removal, and treatment of vascular and pigmented lesions. The workshop will cover the indications, contraindications, and clinical protocols for laser use in facial aesthetics, as well as the safety and potential side effects of these procedures.

This workshop is worth 2 ECTS credit point and includes 16 hours of teaching and 34 hours of self-study. An online examination will be available to the participants after the self-study time to confirm successful completion and will award a certificate.

Schedule:

Day 1:

- Overview of laser systems and their applications in facial aesthetics
- Indications and contraindications for laser use in facial aesthetics
- Clinical protocols for laser use in facial aesthetic procedures such as skin resurfacing, hair removal, and treatment of vascular and pigmented lesions
- Safety and potential side effects of laser use in facial aesthetics

Day 2:

- Hands-on training in laser procedures and protocols specific to facial aesthetics
- Simulation exercises and case studies
- Review and examination to assess knowledge and skills

Please note that facial aesthetic laser procedures are usually performed by licensed dermatologists or plastic surgeons, and that this workshop is designed to provide participants with a basic understanding of the principles and clinical protocols of laser use in facial aesthetics.

| Time | Day 1 | Day 2 |
|---------------------|---|---|
| 9:00 AM - 10:30 AM | Overview of laser systems and their applications in facial aesthetics | Hands-on training in laser procedures and protocols specific to facial aesthetics |
| 10:30 AM - 12:00 PM | Indications and contraindications for laser use in facial aesthetics | continued: Hands-on training |
| 12:00 PM - 1:00 PM | Lunch Break | Lunch Break |
| 1:00 PM - 3:00 PM | Clinical protocols for laser use in facial aesthetic procedures | Review and examination to assess knowledge and skills |
| 3:00 PM - 4:30 PM | Case studies discussion | Case studies discussion and review |
| 4:30 PM - 6:00 PM | Review, Q&A | Preparation for examination and conclusion of the workshop |

Please note that this schedule provides a general outline and the actual workshop may have different timing, depending on the specific curriculum and teaching style of the course.

Word on the Street...



"This course opened up my eyes towards what difference we can make in people's lives with lasers - it's phenomenal."

- Dr Migael Pohl
East London Oral Health Centre, South Africa



"It was such an amazing program with the most amazing lecturers!"

- Tashmia Naidoo, Dental Therapist
Dental Rejuvenation, Durban, South Africa



"In no other place will you find this high level of lectures, detail, dedication and love for the topic as by our professional lecturers."

- Priv.-Doz. Dr. rer. medic. Rene Franzen,
Physicist, Scientific Director of [AALZ Aachen Dental Laser Center](#).



"AALZ is the pioneer and leading education institute in the world of laser dentistry."

- Dr Youssef Sedky, Assistant Professor of Orthodontics



The results I was getting when I started using laser out of the blocks, were beautiful, predictable and productivity improved a lot in terms of patient treatment time and their comfort, plus they loved being treated by laser technology! That said, at the first Mastership course module, I see how altering protocols and settings improve results, predictability, patient comfort, doctor comfort, and productivity even more, including my excitement! So, going from conventional treatment to incorporating laser with basic training and having improvements already, to adding the learning from the Mastership course, everything got even better from our perspective in the practice and the patients' perspective. **Overall it's been a revolution!**

In my case, it was an advantage to have some laser experience before the course. That baseline knowledge amplified the theoretical learning to another level.

- Dr Andre Roux, Cosmetic & Dental Emporium

[Watch Video](#)



"AALZ and the education of lasers in dentistry open a new world of possibilities to treat your patients better, and enables the dentist to offer a wider range of treatments. The course raises you to a next level in dentistry and the expert understanding of how to apply lasers is a game-changer. Exciting both in physics and clinical dentistry, and to be part of a world community in the exchange of ideas and information is uplifting.

- Dr Thys Pienaar,
Johannesburg, South Africa



Smiles by the Nordic Mastership Class of 2022 after case presentations!



Every year-end, Vienna's Sigmund Freud University presents an opportunity for dentists around the world to present their 5 clinical cases, write their Mastership Exam, and graduate in a truly magical evening setting around Christmas time.

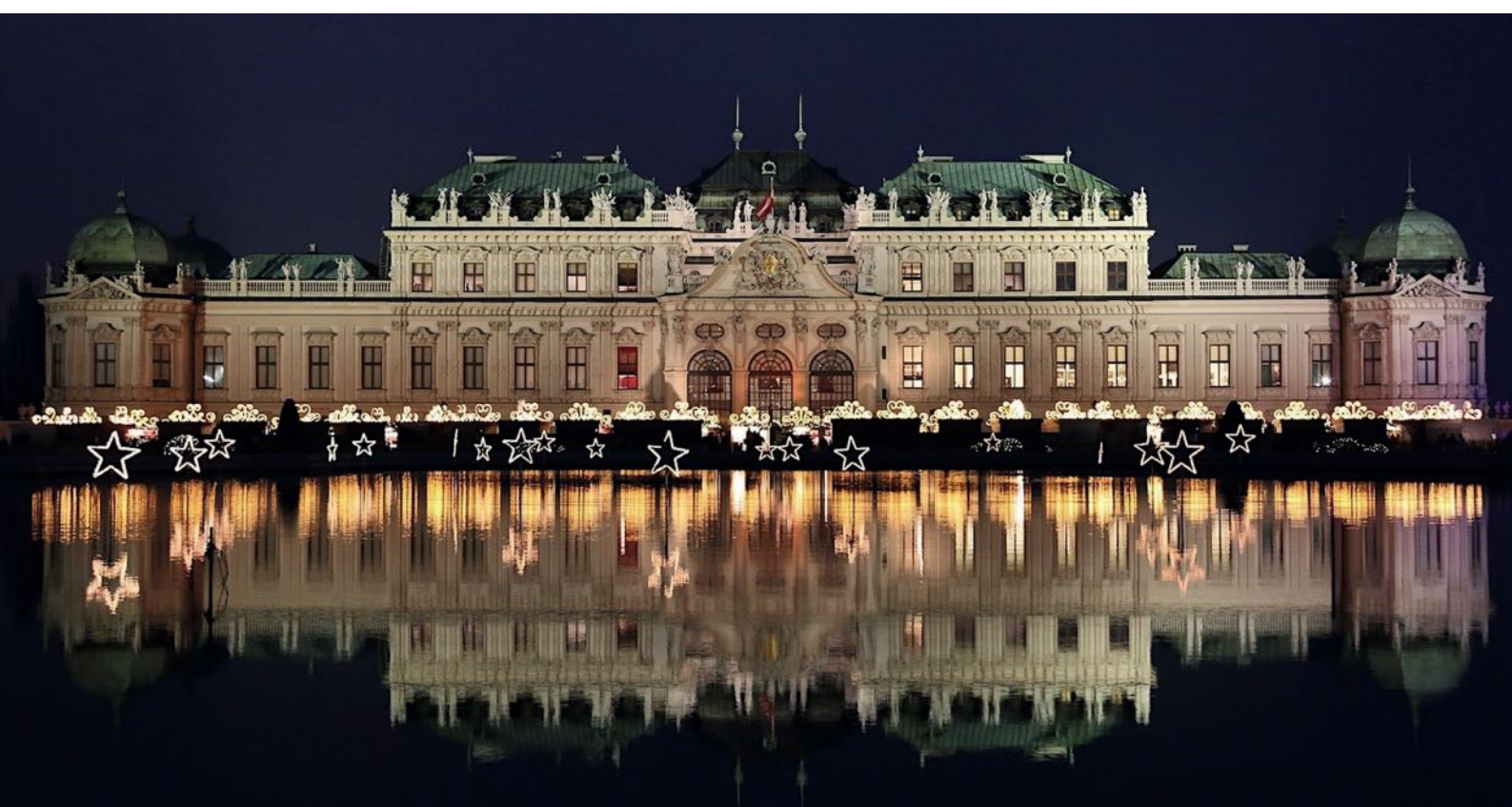
Optional and applicable to participants upgrading to Mastership only.

Completing the Mastership final exam module at Sigmund Freud University is recommended for the full European experience in Austria's capital, Vienna. The Mastership exam is directly followed (usually next day or two) by a special celebratory graduation evening with partners and clinicians from around the world. Alternatively, the final exam and case presentation can also be completed online, remotely, arranged on a different date, should you not be able to attend in-person in Vienna.

*Nothing shouts Christmas like a European Christmas market!
And no one does it better than Vienna, Austria.*

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Baroque Upper Belvedere Palace, Vienna, Austria

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Lasers in Endodontics [2 Days]

Centurion, South Africa

Mon, 19 Feb - Tue 20 Feb 2024

Limited Delegates

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scivisionmedical.com/mastershipcourses



Video Overview
Lasers in Dentistry Master Professional Program/s
[4 Minutes]



The video thumbnail features a dark blue background with a night view of a large, ornate building. In the top left corner, there is a circular inset image showing two people. The main title is "Lasers in Dentistry Master Professional Program/s with...". Below the title, it says "From the Master of Endodontics To South Africa, February 2024". A "Share" button with a white arrow icon is in the top right. The text "Module Courses from Sigmund Freud University's Master Curriculum" is followed by a bulleted list: "• ADVANCED ENDO COURSE [2 DAYS]" and "• LASER SAFETY OFFICER COURSE [1 DAY]". Below this, it says "APPLICATIONS OPEN" and "See scivisionmedical.com/mastershipcourses". At the bottom of the thumbnail is a horizontal strip of five video frames: a man in a black jacket, a man in a dark jacket talking on a phone, a man in a blue suit, a man in a lab coat using a dental laser, and a close-up of a dental laser tip. A large red play button icon is overlaid on the first two frames. The text "MASTER PROFESSIONAL LASERS IN DENTISTRY" is written in white at the bottom left of the thumbnail.

