



SIGMUND FREUD
UNIVERSITY
VIENNA **SFU**

INTERNATIONAL 2nd EDITION

ENDO LASER COURSE

23-24-25 NOVEMBER 2023

VENUE: Praktijk Endodontologie Brabant
Veldhoven, Netherlands



DAY 1.

LASER SAFETY OFFICER (LSO)

& Biophysics applied to Dentistry



Rene Franzen

PD PhD - Germany

DAY 2.

ALL LASERS IN ENDODONTICS

Use and Mix Wavelengths



Miguel R. Martins

DDS MSc PhD - Portugal

DAY 3.

LASERS to handle ENDOCOMPLICATIONS

LASER APICAL SURGERY

Register / Enquiries by Email:

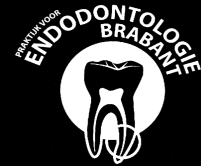
miguel.ar.martins@gmail.com / vanweersch@aalz.de

COURSE FEE: 1900€ (400€ LSO + 1500€ ENDO-LASER) Includes coffee-breaks and lunch

Payment - direct bank transfer: ERGONUCLEO BV IBAN: NL35 ABNA 0807 0869 75 / SWIFT: ABNANL2A

This course fulfills the requirements of **Certification EN 60825-1** and offers **3 ECTS credits**.

INTERNATIONAL
2ND EDITION **NETHERLANDS**



LASER ENDO COURSE & LASER APICAL SURGERY

Early Register (till 15 OCTOBER)

1300Eur + 400Eur LSO*

Normal Register (till 20 NOVEMBER)

1500Eur + 400Eur LSO*

**23*-24-25
NOVEMBER 2023**

LASER-POWERED ENDODONTICS
Illuminate & Transform Root Canal Therapy
UNLOCK YOUR FUTURE

#WEARELASERDENTISTRY #AALZ #WALED #ISLD #SPILM

DAY 1

9h-17h

Laser Safety Officer
Certification

Intro - basic laser physics

Properties of laser radiation &
Generation of laser light

Biological interactions with lasers

Absorption behaviour of laser light
in biological tissues

Laser parameters and their
influence on the tissue interactions

Hazards of laser light

Eye damages
Laser safety goggles

Measures to minimise and mitigate
laser risks

Duties of the LSO (Laser Safety
Officer)

Device safety

Treatment room safety

Workspace safety

Safety checklists

1 ECTS

DAY 2

9h-17h

All LASERS in ENDO
Use & Mix Wavelengths

Rationale to support Laser-Assisted
Endodontic Treatments

Laser Biophysical Interactions in
Endodontics

Erbium lasers: technique backgrounds

2940nm Er:YAG
2780nm Er,Cr:YSGG
Laser-induced Cavitation
LAI - Laser-Assisted Irrigation
PIPS and SWEEPS (Er:YAG)
RFT (Er,Cr:YSGG)
Other techniques

450, 810, 940 and 980nm Diode
Lasers

Select your wavelengths
Modes of operation
Disinfection Protocols

Combining Wavelengths
Dual-Wavelength Concept

Introduction to:

Pulp capping & Pulpotomies
Photodynamic Therapies (aPDT)

AALZ clinical/practical
recommendations

video-demos
pre-clinical training

1 ECTS

DAY 3

9h-16h

LASERS & ENDOCOMPLICATIONS
LASER Apical Surgery

Endodontic Complications: Why Lasers?

Limitations of chemical irrigants

3-D Debris & Smear Laser removal

Laser-induced negative pressure

Draining apical inflammatory content

Fistulas' & Single-Appointments

Large Apical Periodontitis / "Cysts-like"

Intricate root canal morphologies

Isthmuses Debridement

Laser-assisted Re-Treatments

Open apices and Apical Resorptions

Root Canal Sclerosis/calcifications

Endodontic traumatology

Dentin hypersensitivity
Root Fractures
Root Resorptions

Lasers for iatrogenic damages:

Perforations
Ledgings
Broken files
Apical extrusions
"Unbelievable" clinical scenarios

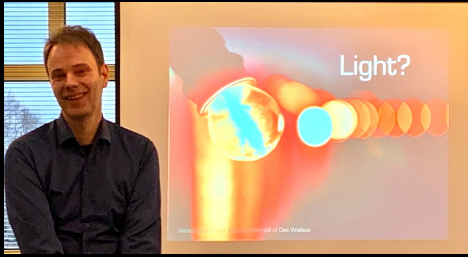
Lasers for Apical Surgery

Incision, bone ablation, granulation
tissue removal, apicoectomy, retro-
preparation, bone cavity disinfection,
suture bandage and Low Level Laser
Therapy.

Examination & Certification

1 ECTS





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23-24-25 November 2023

