CONTEMPORARY APPROACHES IN LASER DENTISTRY

Breakfast & Lecture
2.5 CE credits

FROM THE VERY HEART OF THE START-UP NATION,
LIGHT INSTRUMENTS PRESENTS:

A New Approach to Laser Assisted Dentistry
Prof. Dr. Norbert Gutknecht, DDS, PhD
Department of Operative Dentistry Director,
University Hospital RWTH Aachen, Germany

Er:YAG Lasers in Peri-Implantitis Therapy.
Evidences and Critique
Prof. Georgi Tomov, DDS, MSc, PhD
Faculty of Dental Medicine,
Medical University of Plovdiv, Bulgaria

SUNDAY August 20, 2017 | 08:30-11:00
Hilton Vancouver Metrotown Hotel, Canada
SPECIAL EVENT FOR DENTISTS IN CANADA

From the very heart of the start-up nation, Light Instruments Ltd. & Alpha Omega International Dental Fraternity - Vancouver Chapter, are honored to invite you to participate in an exciting event:

CONTEMPORARY APPROACHES IN LASER DENTISTRY

A unique opportunity to get updated on the latest scientific research in laser dentistry. The lectures will be presented by international professors, laser experts from leading universities in Europe:
Prof. Norbert Gutknecht, from Aachen University, Germany & Prof. Georgi Tomov from Medical University of Plovdiv, Bulgaria

The event will take place at the Hilton Vancouver Metrotown Hotel on Sunday August 20, 2017 from 08:30-11:30 am. Address: 6083 McKay Ave, Burnaby, BC V5H 2W7, Canada

On the agenda

08:30 - 09:00  Breakfast
09:00 - 09:40  “A New Approach to Laser Assisted Dentistry”
Prof. Dr. Norbert Gutknecht, DDS, PhD
Department of Operative Dentistry Director,
University Hospital RWTH Aachen, Germany

09:40 - 10:00  Break

10:00 - 10:40  “Er:YAG Lasers in Peri-implantitis Therapy, Evidences and Critique”
Prof. Georgi Tomov, DDS, MSc, PhD
Faculty of Dental Medicine,
Medical University of Plovdiv, Bulgaria

10:40 - 11:00  Closing Ceremony

LIMITED SEATS
CLICK HERE & SIGN UP TODAY

 Participation fee is 90 C$ - including breakfast at Hilton Vancouver Metrotown, Lecture & 2.5 CE credits.
For more details please contact AOVancouver@gmail.com
To reserve a room at Hilton Vancouver Metrotown hotel please CLICK HERE

LIGHT INSTRUMENTS LTD. Tel: +972-732563222 Email: Office@Light-Inst.com, Web: light-inst.com
Abstract:
Since first interactions on dental enamel have been seen in the year 1965 by using a ruby laser, a big development had taken place in hard- and soft-tissue management. In the years between 1965 and 1988 a treatment of hard-tissue was absolutely ineffective because no suitable wavelength has been available for hard-tissue treatment. In 1988 the first Er:YAG laser experiments have been done on dental enamel and dentin.

Today, we are able to use Er:YAG lasers with a power setting of up to 50 Hz and 600 mJ. By using this power settings the preparation speed increased that much that we can compare the results by using a classical drill.

The advantages out of Erbium laser technology compared with the traditional bur preparation selective caries removal and a minimal invasive less painful up to pain free cavity preparation. Furthermore the patient is not confronted with the annoying sound and the vibrations of a high-speed drill.
This makes laser technology superior especially in the treatment of children and anxious patients. Additional to this positive aspects our study on Er:YAG bleaching showed a significant faster bleaching result by using the Er:YAG laser initiated gel compared with the conventional activated group, getting the same results by saving 50% treatment time, no pulpal irritation due to heat and significant reduced postoperative pain.

As a conclusion one can state, that the treatment combination of Erbium lasers with the latest composite filling material, CAD CAM and veneer techniques and bleaching will be the first choice for an innovative, future orientated dentist in aesthetic dentistry.
Abstract:
With the rapid advancement of implant dentistry, many complications are reported in the recent years. Although professional hygiene and daily self-care have been shown to be effective in reducing inflammation and probing depths in peri-mucositis and peri-implantitis, challenges associated with deeper pockets, bone defects and implant morphology decrease the effectiveness of traditional peri-implantitis therapy. Additionally, once exposed to the oral environment the implant roughness provides a favourable surface for bacteria colonisation. When GBR is indicated around an implant, it is extremely difficult to remove effectively the biofilm with traditional methods without damaging the implant surface. New modalities such as lasers have been advocated to overcome these limitations. Several types of lasers are used in the treatment of peri-implant diseases: Diode, Nd:YAG, Er:YAG and CO2 lasers. Amongst them, Er:YAG lasers are the most efficient in peri-implantitis treatment as a monotherapy or as an adjunct to traditional methods. Er:YAG laser Lite Touch can be used both for non-surgical sulcular debridement and for flap surgery (incisions, granulation tissues removal, bone surgery, implant surface disinfection, uncovering implants in second stage implant surgery and for grafts harvesting). The educational objective of the lecture is to summarise the advantages and current clinical applications of Er:YAG lasers in peri-implantitis therapy. The lecture is illustrated with author’s scientific studies (morphological, microbiological etc.) and relevant clinical cases.