

ATTENDEE'S BROCHURE



2026

THE POWER OF LIGHTS In Las Vegas

ALD
33rd
YEAR
1993-2026

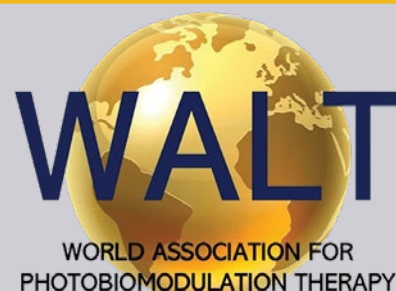
At the 33rd Academy of Laser Dentistry's Annual Conference, Certification & Exhibition

*Includes the World-Renowned SLC
Laser Training and Certification Program*

October 15-17, 2026
Las Vegas, NV

Venue: Sahara Las Vegas Hotel

***Presentations and Workshops in
Advanced Dental Laser & Light Therapy
Led by Three World-Renowned Organizations***



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laserdentistry.org

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Recognition Program

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THE POWER OF LIGHTS In Las Vegas



33rd Academy of Laser Dentistry Annual Conference, Certification & Exhibition

October 15-17, 2026 • Las Vegas, NV

Dear Attendees and Colleagues,

I am honored to invite you to the 33rd Academy of Laser Dentistry's Annual Conference.

This year we are partnered with the **World Association for Photobiomodulation Therapy** and the **North American Association for Photobiomodulation Therapy**.

Our **33rd ALD Annual Conference** will take place at the **Sahara Las Vegas Hotel** in **Las Vegas, Nevada**, from **October 15-17, 2026**. This historic and iconic venue, is ideally located near many of the city's most famous attractions and landmarks, making it the perfect setting for a global gathering of laser and photobiomodulation professionals.

This annual conference will offer Standard Level Training and Certification, Advanced Laser Wavelength Training and world class experts in the area of photobiomodulation that has not been seen in the US prior to this event. We also offer a chance for all dental and medical professionals to further showcase their case studies or research during our E-Poster Competition.

The conference will offer a comprehensive program across a wide range of dental and medical disciplines, including:

- **Laser Assisted Endodontics**
- **Laser Assisted Pedodontics**
- **Laser Assisted Periodontics**
- **Laser Assisted Prosthodontics**
- **Laser Assisted Implantology & Oral Surgery**
- **Orofacial Pain Management & Wound Healing**
- **PBM & Tissue Regeneration**

Attendees will have the opportunity to deepen their expertise in these key specialties through targeted lectures and hands-on workshops, all while discovering the latest innovations in laser technology.

Whether you're looking to refine your skills or explore new advancements in the field of laser dentistry and photobiomodulation, the 33rd ALD Annual Conference offers an unmatched platform for professional growth, collaboration, and networking with leaders from around the globe.

Visit our website www.laserdentistry.org for more information and to register today!

Sincerely,

Dr. Shigeyuki Nagai, DDS, PhD

Vice-Chair ALD Conference

Chairman, 33rd ALD Conference & Exhibition

Academy of Laser Dentistry



ALD Facts

- ★ ALD is the only not-for-profit organization serving tech-savvy dentists without a commercial bias to one particular company.
- ★ Membership: 2,000+ Spanning 23 countries and growing.
- ★ Professional Membership: General dentists, pediatric dentists, oral and maxillofacial surgeons, orthodontists, endodontists, periodontists, prosthodontists, dental hygienists.
- ★ 10 International Chapters and 13 International Study Clubs

ALD Conference Location & Dates



- ★ **Sahara Las Vegas Hotel**
2535 Las Vegas Blvd South,
Las Vegas, NV 89109

- ★ **Conference Dates**
Thursday, October 15 thru
Saturday, October 17, 2026

- ★ **Exhibits Open**
Friday, October 16, 2026
7:30am-6:30pm
&

- ★ Saturday, October 17, 2026
7:30am-5:30pm

Conference Chairs



Dr. Shigeyuki Nagai
Conference Chairperson



Prof. Dr. Georgios E. Romanos
General & Scientific Sessions Chair



Prof. Reem Hanna
Scientific Director &
WALT Scientific Sessions Chair

ALD Speakers

Keynote Speakers



Homa H. Zadeh, DDS, PhD
*Advanced in Laser-Assisted
Regenerative Periodontal and
Peri-Implant Plastic Surgery*



Jan Tunér, DDS
*Mastering the Parameters
of PBM*



Akira Aoki, DDS, PhD
*Innovative Flapless Peri-
odontal Surgery Using
Er:YAG Laser; Er-LCPT*

General Session Speakers



Robin Horton, BDS, FALD, FWCL
Every Procedure is a Laser Procedure!



**Kinga Grzech-Leśniak, Prof.,
DMD, MSc, PhD**
*Innovative Approaches in Managing
Oral Biofilm and Periopathogens
Using Laser Therapy*



Nick Clausen, MBA
*Laser to Legacy: Converting Clinical
Excellence into Long-Term Wealth*



Ali Obeidi, DDS, MSc, MS, FALD
*When Evidence Falls Short: Rethinking
How We Interpret Research in Laser Dentistry*



Janina Golob Deeb, DMD, MS
Use of Erbium Lasers for Debonding



Saleh Anvaria Aria, DDS, MSc
*Laser-Assisted Implantology: Improving
Precision, Stability, and Healing in Implant Treatment*

ALD Speakers

General Session Speakers



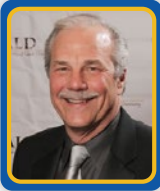
Laura Braswell, DDS
Using Lasers to Help Diagnose and Manage Auto-Immune Diseases



Larry Lieberman, DDS
Lasers for the GP and Beyond



Natalia Elson, DDS
Laser Dentistry as a Transformative Educational Tool: Opportunities and Barriers in Academic Integration



Mel A. Burchman, DDS, MALD
Utilizing Photobiomodulation (PBM) to Treat Cancer Symptoms and Cancer Treatment Side Effects



Mohamed Yehya, DDS, PhD
From Perforation to Preservation: A Laser-Led Amazing Human Body Regeneration, Laser-Assisted Multimodal Management of an Extensive Mandibular Periapical Granuloma with Cortical Plate Perforation and Risk of Pathological Fracture



Haitham Elafifi, DDS
Thermal Imaging—Monitored At-Home Photobiomodulation Therapy for Orofacial Inflammatory Processes



Nahid Derikvand, MDS, Laser Fellowship
Effect of Photobiomodulation Therapy on Postoperative Pain and Trismus Following Implant-Related Oral Surgeries: A Systematic Review of Randomized Clinical Trials



Md Arifur Rahman, BDS, MSc
Laser-Assisted Management of Severely Curved Canals to Prevent Ledge Formation



Alan Kwong Hing, DDS, MSc
Bridging Chairside Laser Therapy and At-Home Photobiomodulation: An AI-Enhanced Model for Improving Clinical Consistency and Patient Compliance



Maki Tanaka, DDS, PhD
Combination Laser Therapy—Effectively Using Multiple Wavelengths for Best Overall Treatment Results



Ernesto Vatteroni, DDS, PhD
Laser-Induced Hypoxia of the Post-Extraction Socket to Preserve Bone Volume Without Grafting



Ujjwal Prem, MDS
Photobiomodulation Therapy Using 890 nm Diode Laser in Management of Temporomandibular Joint Disorder—A Prospective Longitudinal Clinical Study



Ambrose Chan, PhD, MSc, BDS, FRACDS, FICD
Integrated Photonics-Enhanced Precision Dentistry—Current Status & Future Trends of Applications Across Dental Disciplines

Dental Hygienist Track Speakers



Lynn Atkinson, RDH
"Lighting the Way" Photobiomodulation for Healing, Pain and Health in Hygiene



Erin Doffoney, RDH
Deferring and Referring with Confidence: Clinical Judgment, Ethical Responsibility, and Collaborative Care Decision-Making for the Dental Team



Angie Wallace, RDH
Are the Rules and Regulations for Lasers in Dental Hygiene Changing Again?



Alfred Wyatt, DMD
Illuminating Precision: Understanding Laser Wavelengths in Dental Hygiene

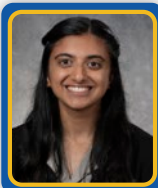


Laura Braswell, DDS
Using Lasers to Help Diagnose and Manage Auto-Immune Diseases

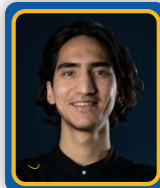


Laurie Bricker, RDH, MS
From Operator to Educator: The RDH-to-Faculty Journey Through Laser Dentistry and Higher Education

Poster Competition



Shruti Natarajan, DDS
The Resolution of Oral Lesions with Photobiomodulation Therapy: A Case Report



Abdukhamidjon Azimov, DDS, MS
Comparative Evaluation of Cutting Accuracy & Thermal Damage in Oral Soft Tissue Using Novel Fiber Lasers & Conventional Surgical Techniques



Rachel Dadson, DDS Candidate
Laser-Assisted Frenectomies: A Systematic Literature Review



Erin Doffoney, RDH
Scarlet Secrets: Red, Relentless, & Rare Uncovering Plasma Cell Gingivitis



Edward Pocola, DDS
Evidence for Structured Laser Dentistry Training Outcome for AEGD Residents



Maya Albano, Dental Student
Laser Versus Piezoelectric Surgery in Bone: A Literature Review



Vipul Kumar Srivastava, BDS, MDS
Multimodal Diode Laser Management of Oral Submucous Fibrosis-A Pre-Malignant Condition: 3 Case Reports Using 450 nm & 980 nm Diode Lasers



Chi-shiun Tsai, DDS, PhD
Effect of Red & Near-Infrared LED Irradiation on the Proliferation & Differentiation of Rat Odontoblast-Like Cells in Vitro



Yujin Ohsugi, DDS, PhD
Therapeutic Effects & Molecular Mechanisms of Near-Infrared Phototherapy in a Mouse Model of Medication-Related Osteonecrosis of the Jaw



Mohammed Nourouzian, DDS, MSc
Photobiomodulation Therapy for Accelerating Soft Tissue Anesthesia Reversal & Preventing Self-Inflicted Injuries in Pediatric Dentistry: A Systematic Review



Isabella Falco
Reported Legal Matters Due to Laser Complications in Dentistry

ALD Hands-On Workshops

Thursday, October 15, 2026

\$795

Mastering Frenectomy & Soft Tissue Surgery: A Complete Clinical System from Diagnosis to Long-Term Outcomes



Lawrence Kotlow, DDS

Transform the way you diagnose and treat restrictive oral tissues and soft tissue conditions. This comprehensive course provides a step-by-step system you can immediately implement in your practice using laser technology.

This course includes live surgical videos and detailed case reviews. It provides practical protocols that you can implement immediately, along with clear, concise, and clinically focused instruction. The content is applicable to multiple laser platforms.

This course is different because it provides a complete start-to-finish clinical system rather than focusing solely on technique. Participants will learn how to achieve predictable outcomes through practical, real-world applications and seamlessly integrate these procedures into their daily practice. The curriculum is built on decades of clinical experience and reflects insights gained from treating thousands of patients.

Who Should Attend: General Dentists, Pediatric Dentists, ENTs and Medical Professionals, Lactation Consultants and Myofunctional Therapists, any clinician involved in infant, pediatric, or airway-focused care

Learn how to accurately assess and diagnose restrictive tethered oral tissues (RTOTs), determine appropriate case selection, and perform laser frenectomy procedures for infants, children, and adults. This course covers safe and efficient soft tissue techniques, tissue management, post-operative care, and the connection between oral restrictions, feeding, airway development, and long-term health.

12:30pm - 6:30pm

ALD Hands-On Workshops

Thursday, October 15, 2026

DDS: \$895 | RDH: \$645

Standard Level Laser Training & Certification Course

The standard level course is considered the minimum required education level in laser dentistry for any dental professional to be able use lasers clinically on patients safely and effectively with recognized expertise level within their individual scope of practice. The course emphasizes the importance of laser safety protocols with device specific and/or wavelength instructions demonstrating a knowledge base through didactic and hands-on elements.

Laser safety protocols are of paramount importance for everyone within the dental laser practice with knowledge pertaining to devices, wavelengths, standard operating best practice principles for safe, effective and efficient execution of all laser assisted procedures for better outcomes for our patients.

Governing bodies in most countries require the presence of Laser Safety Officers (LSO) and Laser Protection Advisors (LPA) in laser practices and some of these elements will be covered with the course. The hands-on portion will familiarize and empower participants to acquire practical skills to use the laser devices safely in various clinical modalities. This course is also one of parts of a three-part ALD standard level certification. The course requires didactic scientific education and clinical case reviews as well as additional hands-on simulation ALD recommended specimen protocols for part 2 certification.

8:00am - 5:00pm | Includes ALD Standard Level Certification

Friday, October 16, 2026

Standard Level Laser Training & Certification Course: Erbium: Chromium Laser Certification



Marina Polonsky, DDS

There are over 50 wavelengths available for dentists to purchase. From visible to far infrared lasers, they are built differently, have different delivery systems, different modes of operation and different chromophores they are looking for as they interact with living tissues, which also have different composition. The choice of which laser best suits your practice, your patients and how you want to differentiate and market yourself is not an easy one. Because no one wavelength can do everything, it is important to understand limitations of each and how combining lasers and create confidence in the best possible outcome for the clinician and minimal complications and fastest recovery for the patient. Erbium lasers are known for fast cutting of both soft and hard tissues including bone, dentin and enamel with minimal thermal effects but often lack in deep and predictable coagulation and disinfection. Diode lasers are not indicated for contact with hard tissues due to deep thermal side-effects, but that is what makes them superior in coagulation and disinfection. By knowing the strength and weaknesses of all laser wavelengths and how lasers are different from conventional instruments like scalpels, electro-surgery and drills, we can develop multi-wavelength treatment protocols easy to implement into everyday practice. So bring your typical daily schedule and we will help you to turn your conventional day into a laser-assisted next level of patient care day using Er,Cr:YSGG 2780nm erbium family laser and Epic 940nm diode family laser.

2:00pm - 6:00pm | Includes YSGG ALD Certification

Photobiomodulation in Dentistry



Grace Sun, DDS & Arun Darbar, DDS, MS

This workshop explores the transformative potential of Photobiomodulation (PBM) in dentistry and orofacial pain management. PBM is a non-invasive, non-pharmaceutical treatment that enhances patient experiences by promoting healing, reducing swelling, and alleviating pain. It can be applied across various dental specialties, including root canals, extractions, periodontal treatments, orthodontics, and prosthodontics. Additionally, PBM plays a significant role in managing orofacial pain conditions such as TMJ dysfunction, trigeminal neuralgia, xerostomia, and headaches. The integration of acupuncture principles with PBM adds an exciting dimension to treatment outcomes. This hands-on workshop will cover practical PBM techniques, protocols, and real-world applications. Participants will have the opportunity to engage in discussions, ask questions, and gain valuable insights to bring back to their practices for immediate implementation. Whether you're a general dentist or a specialist, this workshop will enhance your ability to offer cutting-edge, integrative care to your patients. Example applications: TMJ management, surgical pre-conditioning, post-op recovery and wound healing, tissue regeneration, gagging prevention, reducing chairside anxiety, reducing skeletal muscular discomfort (analgesics), sensory integration, role of mitochondria, cranial nerves to PBM etc.

2:00pm - 6:00pm

Oral Biopsies and the Roles Lasers and Light Technologies Play



Alfred Wyatt, DMD

Approximately 60% of patients with an oral lesion identified during a routine dental examination do not follow through with specialist evaluation or treatment. Early recognition and appropriate management of oral pathology are essential to improving patient outcomes. This course provides a practical, step-by-step approach to performing a comprehensive head and neck and oral soft tissue examination, helping clinicians identify suspicious lesions and determine when further diagnostic procedures are warranted.

Participants will review biopsy protocols, explore the available options for tissue evaluation and diagnosis, and gain insight into the expanding role of laser and light-based technologies in oral pathology. By understanding the complete diagnostic process—from tissue assessment—attendees will be better equipped to detect abnormalities, facilitate timely intervention, and enhance the quality of patient care.

2:00pm - 6:00pm

ALD Hands-On Workshops

Saturday, October 17, 2026

DDS: \$895 | RDH: \$645

Standard Level Laser Training & Certification Course

The standard level course is considered the minimum required education level in laser dentistry for any dental professional to be able use lasers clinically on patients safely and effectively with recognized expertise level within their individual scope of practice. The course emphasizes the importance of laser safety protocols with device specific and/or wavelength instructions demonstrating a knowledge base through didactic and hands-on elements.

Laser safety protocols are of paramount importance for everyone within the dental laser practice with knowledge pertaining to devices, wavelengths, standard operating best practice principles for safe, effective and efficient execution of all laser assisted procedures for better outcomes for our patients.

Governing bodies in most countries require the presence of Laser Safety Officers (LSO) and Laser Protection Advisors (LPA) in laser practices and some of these elements will be covered with the course. The hands-on portion will familiarize and empower participants to acquire practical skills to use the laser devices safely in various clinical modalities. This course is also one of parts of a three-part ALD standard level certification. The course requires didactic scientific education and clinical case reviews as well as additional hands-on simulation ALD recommended specimen protocols for part 2 certification.

8:00am - 5:00pm | Includes ALD Standard Level Certification

Diode Laser Workshop:

From Fundamentals to Immediate Clinical Implementation



Ali Obeidi, DDS, MSc, MS, FALD

This comprehensive, clinically driven workshop is designed to provide general dentists with the knowledge, confidence, and hands-on experience necessary to integrate diode laser technology into daily practice immediately following the course. As demand for minimally invasive, efficient soft-tissue procedures continues to grow, diode lasers have become an essential tool in modern dentistry. However, many clinicians remain uncertain about proper technique, settings, and clinical application. This program is specifically structured to bridge that gap. The workshop begins with a focused one-hour lecture reviewing the foundational principles of diode laser dentistry, including laser physics, tissue interaction, and safety protocols. Emphasis will be placed on practical understanding rather than theory alone, enabling participants to make predictable and biologically sound clinical decisions. The lecture will also introduce multiple diode laser wavelengths and highlight their clinical versatility, preparing participants to work with different systems and technologies. Following the didactic portion, participants will engage in an intensive 2 to 2.5-hour hands-on session featuring live demonstrations and guided mentorship. Attendees will practice on animal tissue models, simulating real clinical scenarios to develop tactile familiarity and procedural confidence. Multiple diode laser units and wavelengths will be available, allowing participants to gain experience with different devices and settings while understanding their clinical indications. Special attention will be given to technique sensitivity, proper laser settings, fiber initiation and management, and avoiding common clinical errors. Step-by-step protocols will be demonstrated to ensure predictable, efficient, and safe outcomes. This workshop is ideal for general dentists considering the purchase of a diode laser, as well as those seeking to maximize the value of existing equipment. By the end of the session, participants will have a clear, practical roadmap for incorporating diode laser procedures into everyday clinical practice, allowing them to confidently begin using this technology immediately after the conference.

2:00pm - 6:00pm

\$495

Elevating Patient Care With Laser Dentistry



Larry Lieberman, DDS

Utilizing slides, videos, and discussion, have more fun and add to your bottom line doing dental procedures, facial aesthetics, and opening airways with lasers. Photobiomodulation—anytime there is pain and/or inflammation. See how lasers can make everything we do better.

Open your airway and open your mind with Nightlase. Learn how to recognize and treat sleep disordered breathing in adults and children. On a great day we save a smile; on an amazing day we save a life through dental-medicine. I will share my passion for lasers and improving the quality of our patients' lives.

This course will cover the aging process of skin and how to treat it. Smoothlase—eliminating wrinkles. Liplase—plumping lips with lasers. Eyelase—helping to rid dark circles and eye bags. Facial peels with little downtime using Exosomes and/or PRF. CPAP, MAD (mandibular advancement devices), Nightlase—what and when?

2:00pm - 6:00pm

CO₂ Laser Workshop



Georgios Romanos, Prof. Dr. med. dent., DDS, PhD

Soft tissue surgery is common in clinical dentistry and can be performed by different types of lasers. General practitioners prefer to feel contact with the soft tissue during incision, excision or coagulation of blood vessels. This course will present and train clinicians to understand the difference between contact and non-contact laser surgery. The CO₂ laser as the most common laser wavelength for oral surgical procedures allows an excellent cutting efficiency and provides opportunities in the treatment of periodontal and peri-implant diseases with significant benefits for patients and clinicians. Pre-prosthetic surgery, removal of benign soft-tissue tumors, coagulation of hemangiomas, excision of precancerous lesions such as leucoplakias, management of drug-induced gingival overgrowths, and the treatment of peri-implantitis. These examples will outline the relevant clinical protocols and highlight the importance of choosing the correct laser wavelength for clinical daily practice.

2:00pm - 6:00pm

WALT/NAALT Speakers

Keynote Speakers



Juanita Anders, MS, PhD
The Systematic Effects of Photobiomodulation Therapy: A Review of Evidence For and Against



Praveen Arany, BDS, MDS, MMSc, PhD
Recent Advances in Photobiomodulation: From Precision Personalized Care to Policy Updates

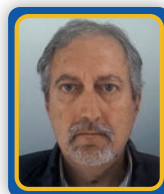
Plenary Session Speakers



Juanita Anders, PhD
The Systematic Effects of Photobiomodulation Therapy: A Review of Evidence For and Against



Praveen Arany, BDS, MDS, MMSc, PhD
Recent Advances in Photobiomodulation: From Precision Personalized Care to Policy Updates



René-Jean Bensadoun, MD, HRD
Photobiomodulation in Cancer Supportive Care: Evidence-Based Indications, Clinical Applications and Future Perspectives



Liisa Laakso, BPhy, PhD
Artificial Intelligence as a Framework for Precision Photobiomodulation Dosing



Nicolette Houeild, D. Tech
Photobiomodulation at 660 nm Activates Wnt/ β -Catenin Signaling and Enhances Wound Healing



Heidi Abrahamse, PhD
Photobiomodulation Promotes Tenogenic Fate in Adipose Mesenchymal Stem Cells in Three Dimensional Hydrogels



Reem Hanna, BDS, PhD, MSc, PG DipSed, PG DipHE, PG Cert AP, FAHE, FRSM, FIADFE, LPA (ALSP Cert)
Photobiomodulation Therapy of Orofacial Neuropathic Pain—Clinical Practice Guidelines and Consensus Using the HANNA Framework



Lilach Gavish, PhD, MPH
Photobiomodulation Combined with Dynamic Thermal Imaging: An Emerging Approach for Functional Assessment of Microvascular Responses



Nivaldo Parizotto, PT, PhD
Effects of Resistance Training With/Without Photobiomodulation on Muscle and Respiratory Function in Difficult-to-Control Asthma: A Randomized Trial



Anine Crous, PhD
Photobiomodulation Regulates Neural Organoid Formation from Adipose-Derived Stem Cells in a 3D Culture Model



Roberta Chow, MB BS (Hons) FRACGP M.Appl.Sci (Acu) PhD Grad Cert Pain M'ment
Mechanisms of Effectiveness of Photobiomodulation on Somatosensory Neurons and the Peripheral Nervous System



Paolo Cassano, MD, PhD
Photobiomodulation and Lasers: Are We Treating the Brain?

Oral Presentation Speakers



Mohamed Yehya, BDS, MDS, PhD
Analgesic Outcomes of 650 nm Versus 810 nm Diode Laser Photobiomodulation After Dental Implant Placement in a Randomized Controlled Trial



Janina Golob Deeb, DMD, MS
Applications of PBM in Periodontal Practice: Case Series



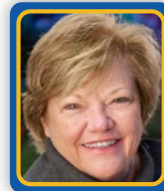
Kody Newman, BS
EEG-Guided Photobiomodulation for Cognitive and Neuropsychiatric Outcomes: A Translational Clinical Approach



Zachary W. Sigman, BS
Assessment of Dose-Dependent Effects of 1064 nm Photobiomodulation Therapy on Human Tenocyte- and Bursa-Derived Cell Proliferation in Vitro



Ruth Phipers, MA
Photobiomodulation in Complex Female Infertility Profile: A Case Report with 12-Month Follow-Up and Review of Current Mechanism in Reproductive Photomedicine



Belinda Mandrell, PhD
Feasibility and Efficacy of Photobiomodulation in the Prevention and Treatment of Radiotherapy-Induced Oral Mucositis and Radiation Dermatitis

WALT/NAALT Speakers

Oral Presentation Speakers



Lilach Gavish, PhD, MPH

Self-Applied Home-Use Photobiomodulation Reduces Pain in Patients with Knee Osteoarthritis: A Double-Blind Randomized Sham-Controlled Trial



Kate Perkins, B. App. Sci. (OT)

Photobiomodulation in Breast Cancer-Related Lymphoedema: Effects on Limb Volume and Quality of Life; Timing of Photobiomodulation in Head and Neck Radiotherapy: Impact on Radiation-Induced Fibrosis



Thais Azevedo Reis, MSc

Effects of Vascular Photobiomodulation as an Adjunct Therapy in the Treatment of Sickle Cell Disease: Impact on Pain, Vital Signs, and Hematology



Iasmym Mendes de Jesus, MSc

Impact of Photobiomodulation on Oral Mucositis, Pain, and Microbiota in Head and Neck Cancer Patients Undergoing Antineoplastic Therapy



Alan Kwong Hing, DDS, MSc

Artificial Intelligence as a Dosimetry Engine in Cross-Platform Photobiomodulation: Predictive Modeling and Adaptive Protocol Design



Lew Lim, PhD, MBA

Home-Based Intranasal and Transcranial PBM for Cognitive Dysfunction in Post-COVID Condition: Route-Specific Brain Effects of PBM and Control of Brain-State Dynamics: Intranasal and Transcranial PBM in TBI



Chandrashekar Yavagal, MDS, DOrth, PhD

Fast, but Not Furious! Photobiomodulation Therapy in Alleviating Pain and Accelerating Orthodontic Tooth Movement in Children—A Systematic Review and Meta-Analysis



Karim Kleiber, MD

Observational Study on the Use of the PBM Lightforce Device in 227 Cases of Musculoskeletal Disorders: A 18 Months Follow Up



Saba Khan, DMD

Photobiomodulation Therapy for Management of Post-Treatment Dental Paresthesia: A Clinical Protocol and Case Series



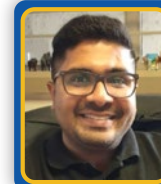
Karla Estrada Rojas, MA, CCC-SLP

Improving Aphasia Outcomes with Transcranial Photobiomodulation Combined with Speech-Language Therapy: A Case Study



Liisa Laakso, B-Phy, PhD

Does PBM Reduce Impact of Extraintestinal Manifestations and Influence the Gut Microbiome in Young Adults with Inflammatory Bowel Disease?; PBMT for KOA Applications Using a Novel Wearable PBM Device



Blassan George, PhD

Optimizing Photobiomodulation to Enhance Smooth Muscle Differentiation of Adipose-Derived Stem Cells in a 2D Model



Venera Berisha-Muharremi, Prof. Assoc., MD, PhD

Photobiomodulation in Chronic Autoimmune Thyroiditis: Novel Glutathione Modulation in Early Disease and Clinical Outcomes



Cleuton Landre, MSc

Effects of Photobiomodulation Therapy on Disability and Function in Low Back Pain: A Randomized, Double-Blind, Sham-Controlled Crossover Trial



Lara Maria Bataglia Espósito, MSc, PT

Acute Effects of Whole-Body PBM on Blood Pressure in Individuals with Hypertension; Skin Temperature Changes Following Whole-Body PBM in Individuals with Hypertension



Farzad Salehpour

Transcranial 1064 nm Laser Photobiomodulation Improves Prefrontal Hemodynamic Response and Cognitive Function in Adults with ADHD



Magda Souza Viana, MSc

Effects of Photobiomodulation as Adjunctive Therapy on Pressure Ulcer Healing: A Randomized Clinical Study



Cleber Ferraresi, Prof.

Acute Effects of Whole-Body PBM on Glycaemic Control in Individuals with Diabetes Type 2; Whole-Body PBM in Individuals with Type 2 Diabetes Mellitus and Hypertension



Alain Lecat, DVM

Transcranial Photobiomodulation as an Adjunctive Therapy for Drug-Resistant Epilepsy in a Dog: A Five-Year Case Report



Marggie Grajales Ramirez, DDS, MSc

Laser-Stimulated Human Gingival Fibroblasts: Alterations in Migration, Secretome Production, and Induction of Reactive Oxygen Species; PBM with 976 nm Diode Laser Enhances Osteoblastic Differentiation of Seos-2 Cells Cultured on Collagen Membranes



Dana York, DDS, MS, PhD, Clinical Teaching Degree Academy of Distinguished Educators

Photobiomodulation Future of Medicine



James Carroll

The Effects of PBM on Heart Rate, HRV, VO2 Max, Sleep Quality, and Implications for Longevity and Health Span; Clinical and Economic Benefits of PBM for Oral Mucositis; Why I Do Not Believe Your Dose



Roberta Chow, MB BS (Hons), FRACGP, M ApplSci (Med Acu), PhD, Cert Pain M'nt

904 nm Laser PBM Increases Mitochondrial Membrane Potential in Cell Bodies of Neonatal Dorsal Root Ganglion Neurons and Schwann Cells in Vitro



Denis J. Gendron, Physics PhD

Accelerated Reversal of Metabolic Syndrome with Adjunct Phototherapy

WALT/NAALT Speakers

Oral Presentation Speakers



Sara Ciurca, BS Biological Sciences
Optimizing Wound Healing Outcomes Utilizing Photobiomodulation Therapy



Daiane Meneguzzo, DDS, MSc, PhD
Non-Invasive Blood Photobiomodulation Reduces ASD Symptoms in Young Children: A Pilot Study



Pilar Blanco, MSc
Analysis of the Role of Dental Sleep Medicine in the Detection, Assessment, and Therapeutic Support of Patients with Obstructive Sleep Apnea; Diode Laser Assisted Facial Lifting: A New Technical and Case Report



Reem Hanna, BDS, PhD, MSc, PG DipSed, PG DipHE, PG Cert AP, FAHE, FRSM, FIADFE, LPA (ALSP Certified)
Standardized PBM Dosimetry Enhances Bone Regeneration in Critical-Size Calvarial Defects; Targeting Oral Neuropathic Pain with PBM



Gabriela Guimaraes, MD
Abdominal Photobiomodulation as Gut-Brain Axis Therapy: Mechanisms, Dosimetry, and Translational Evidence



Ann Liebert, PhD
Photobiomodulation in Kidney Disease: From Bench to Bedside



Brian Bicknell, PhD
Five-Year Follow-Up of PBM in Parkinson's Disease; Case Studies of the Use of PBMT for 7 Years



Sathish Sundar Dhillip Kumar, PhD
Advances in Electrospun Nanofibrous Scaffolds and Photobiomodulation Therapy for Diabetic Wounds

WALT/NAALT Thursday Program

Pre-Conference Educational Courses Speakers



René-Jean Bensadoun, MD, HRD
PBM in Supportive Care for Cancer



Praveen Arany, PhD, DDS
PBM in Wound Care; Trials and Research Methodology



Juanita Anders, MS, PhD
PBM Applications in Dentistry and Orofacial Disorders



Reem Hanna, BDS, PhD, MSc, PG DipSed, PG DipHE, PG Cert AP, FAHE, FRSM, FIADFE, LPA (ALSP Certified)
PBM Applications in Dentistry & Orofacial Disorders



Lilach Gavish, PhD, MPH
PBM and the Mitochondria; PBM and the Microcirculation: Mechanism and Applications



Liisa Laakso, BPhy, PhD
Trials and Research Methodology



Nivaldo Parizotto, PT, MSc, PhD
PBM in Musculoskeletal Applications



Cleber Ferraresi, PT, MS, PhD
PBM in Musculoskeletal Applications



Paolo Cassano, MD, PhD
PBM in Neurology

WALT/NAALT Workshops

Personalized Brain Photobiomodulation: AI-Guided and Control-Based Neuromodulation in Practice



Lew Lim, PhD, MBA & Reza Zomorodi, PhD

Photobiomodulation (PBM) is emerging as a non-invasive neuromodulation modality with applications across neurological, psychiatric, and performance domains. However, most current PBM protocols are applied in fixed, open-loop configurations that do not account for individual variability in brain dynamics. This interactive workshop introduces an integrated framework that combines AI-guided EEG analysis, photobiomodulation, and control-theoretic modeling to enable personalized, adaptive neuromodulation. Participants will learn how EEG signals are acquired, processed, and analyzed using signal processing and machine learning techniques to identify biomarkers and network patterns that inform clinical interpretation. The workshop will demonstrate how AI

methods and normative EEG databases can translate EEG-derived features into individualized PBM stimulation protocols. A key component is the introduction of Bidirectional Control Energy (BiCE), a quantitative measure of brain-state efficiency that incorporates directional control dynamics between subcortical-to-cortical (Kc) and cortical-to-subcortical (Ks) networks, providing insight into network stability and efficiency and informing neuromodulation strategies. Participants will also explore adaptive and closed-loop neuromodulation frameworks that integrate EEG monitoring with real-time parameter adjustment through a workflow of data acquisition, state estimation, control energy computation, and parameter optimization. Live demonstrations will utilize clinically relevant PBM systems featuring transcranial and intranasal delivery platforms operating at 810 nm and 1064 nm wavelengths with pulsed stimulation protocols. By the conclusion of the workshop, attendees will understand how EEG-derived biomarkers can guide PBM parameter selection, how AI-driven analytics support personalized stimulation strategies, and how control-theoretic approaches can quantify and optimize brain-state dynamics. The integration of AI, EEG analytics, and control-based methodologies represents a significant advancement in the evolution of PBM from fixed protocols to personalized, adaptive neuromodulation, with potential applications in neurological disorders, mental health, and performance optimization.

Preventing Neurodegeneration Through Whole-Body PBM: A Network Solution to the Gut-Brain-Sleep Axis



Francisco Cidral, ND, PhD

Neurodegenerative diseases are increasingly recognized as systemic network disorders involving the gut-brain axis, glymphatic clearance system, and chronic neuroinflammation rather than isolated brain failures. Most current photobiomodulation (PBM) approaches rely on transcranial or site-specific irradiation and therefore cannot directly engage the gut-brain axis, activate glymphatic drainage, or address systemic inflammation. This interactive workshop presents a paradigm shift toward whole-body photobiomodulation (WB-PBM) as a simultaneous, multi-axis preventive strategy targeting the gut, brain, and sleep-glymphatic system within a single session. Through didactic instruction and a live physiological demonstration, participants will explore the mechanistic rationale for WB-PBM, including gut-brain axis pathology (Braak's hypothesis, mapranosis, and LPS-driven neuroinflammation), glymphatic dysfunction mediated by AQP4-dependent clearance and sleep architecture, and the proposed triple-synergy physiological cascade induced by a 20-minute treatment session. A live demonstration will assess pre- and post-treatment physiological responses using PPG Stress Flow for heart rate variability and vascular health metrics and HEG for prefrontal cortex blood flow and oxygenation. The demonstration utilizes the Hue Light USA Whole-Body PBM Chamber, a full-body LED system delivering red, near-infrared, infrared, and green wavelengths across the entire body, including the abdominal region. Supporting evidence is drawn from the first pilot randomized controlled trial in Parkinson's disease, which demonstrated significant improvements in mentation, mood, and cognitive performance measures, while maintaining motor function and reporting no serious adverse events. Acute physiological effects observed during treatment include natural deep sleep onset within 7-10 minutes, with expected increases in HRV, reductions in stress index, improved vascular compliance, and enhanced prefrontal oxygenation. WB-PBM represents a network solution for a network problem by simultaneously engaging the gut-brain axis, glymphatic clearance, and systemic inflammation resolution. The workshop will equip practitioners with a mechanistic understanding of WB-PBM, practical experience interpreting real-time physiological data, and an evidence-based framework for integrating whole-body photobiomodulation into prevention-oriented clinical practice for neurodegenerative and related disorders.

SCHEDULE AT A GLANCE

THURSDAY, OCTOBER 15, 2026 | PRE-CONFERENCE

THURSDAY WORKSHOPS

8:00am-5:00pm	Standard Level Laser Training & Certification Course	
12:30-6:30pm	Mastering Frenectomy & Soft Tissue Surgery: A Complete Clinical System from Diagnosis to Long-Term Outcomes	Lawrence Kotlow, DDS
5:00-7:00pm	Reception w/ Exhibits & Badge Pick-Up	

FRIDAY, OCTOBER 16, 2026

8:00-10:00am	Keynote Lectures	
10:00-10:30am	Break	
10:30-10:50am	Every Procedure is a Laser Procedure!	Robin Horton, BDS, FALD, FWCLI
10:55-11:15am	Innovative Approaches in Managing Oral Biofilm and Periopathogens Using Laser Therapy	Kinga Grzech-Leśniak, Prof., DMD, MSc, PhD
11:20-11:50am	Lasers for the GP and Beyond	Larry Lieberman, DDS
11:55am-12:15pm	Laser to Legacy: Converting Clinical Excellence into Long-Term Wealth	Nick Clausen, MBA
12:20-12:30pm	When Evidence Falls Short: Rethinking How We Interpret Research in Laser Dentistry	Ali Obeidi, DDS, MSc, MS, FALD
12:30-1:00pm	Membership Meeting	
1:00-2:00pm	Lunch	

FRIDAY WORKSHOPS

2:00-6:00pm	Standard Level Laser Training & Certification Course: Erbium: Chromium Laser Certification	Marina Polonsky, DDS
2:00-6:00pm	Photobiomodulation in Dentistry	Grace Sun, DDS & Arun Darbar, DDS, MS
2:00-6:00pm	Oral Biopsies and the Roles Lasers and Light Technologies Play	Alfred Wyatt, DMD

SATURDAY, OCTOBER 17, 2026

DENTIST TRACK

8:00-10:00am	Keynote Lectures	
10:00-10:30am	Break	
10:30-10:50am	Use of Erbium Lasers for Debonding	Janina Golob Deeb, DMD, MS
10:55-11:15am	Laser-Assisted Implantology	Saleh Anvaria Aria, DDS, MSc
11:20-11:40am	Thermal Imaging—Monitored At-Home PBM Therapy for Orofacial Inflammatory Processes	Haitham Elafifi, DDS
11:45am-12:10pm	Using Lasers to Help Diagnose and Manage Auto-Immune Diseases	Laura Braswell, DDS
12:15-12:35pm	Laser Dentistry as a Transformative Educational Tool: Opportunities and Barriers in Academic Integration	Natalia Elson, DDS
12:40-1:00pm	Utilizing PBM to Treat Cancer Symptoms and Cancer Treatment Side Effects	Mel A. Burchman, DDS, MALD
1:00-2:00pm	Lunch	
2:00-2:20pm	From Perforation to Preservation	Mohamed Yehya, DDS, PhD
2:20-3:00pm	Effect of PBM Therapy on Postoperative Pain and Trismus Following Implant-Related Oral Surgeries	Nahid Derikvand, MDS, Laser Fellowship
3:00-3:30pm	Laser-Assisted Management of Severely Curved Canals to Prevent Ledge Formation	Md Arifur Rahman, BDS, MSc
3:30-4:00pm	Break	
4:00-4:20pm	Bridging Chairside Laser Therapy and At-Home PBM	Alan Kwong Hing, DDS, MSc
4:20-4:40pm	Combination Laser Therapy—Effectively Using Multiple Wavelengths for Best Overall Treatment Results	Maki Tanaka, DDS, PhD
4:40-5:00pm	Laser-Induced Hypoxia of the Post-Extraction Socket to Preserve Bone Volume Without Grafting	Ernesto Vatteroni, DDS, PhD
5:00-5:20pm	PBM Therapy Using 980 nm Diode Laser in Management of Temporomandibular Joint Disorder	Ujjwal Prem, MDS

DENTAL HYGIENIST TRACK

8:00-9:00am	Illuminating Precision: Understanding Laser Wavelengths in Dental Hygiene	Alfred Wyatt, DMD
9:00-10:00am	Deferring and Referring with Confidence	Erin Doffoney, RDH
10:00-10:30am	Break	
10:30-11:30am	"Lighting the Way" Photobiomodulation for Healing, Pain, and Health in Hygiene	Lynn Atkinson, RDH
11:30am-1:00pm	TBD	Jodi Deming, RDH
1:00-2:00pm	Lunch	
2:00-2:45pm	Are the Rules and Regulations for Lasers in Dental Hygiene Changing Again?	Angie Wallace, RDH
2:45-3:30pm	From Operatory to Educator: The RDH-to-Faculty Journey Through Laser Dentistry and Higher Education	Laurie Bricker, RDH, MS
3:30-4:00pm	Break	
4:00-5:20pm	Using Lasers to Help Diagnose and Manage Auto-Immune Diseases	Laura Braswell, DDS

SATURDAY WORKSHOPS

8:00am-5:00pm	Standard Level Laser Training & Certification Course	
2:00-6:00pm	Diode Laser Workshop: From Fundamentals to Immediate Clinical Implementation	Ali Obeidi, DDS, MSc, MS, FALD
2:00-6:00pm	Elevating Patient Care with Laser Dentistry	Larry Lieberman, DDS
2:00-6:00pm	CO ₂ Laser Certification	Georgios Romanos, Prof., Dr. med. dent., DDS, PhD



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SCHEDULE AT A GLANCE



THURSDAY, OCTOBER 15, 2026 | PRE-CONFERENCE

7:30-8:00am..... Registration

THURSDAY EDUCATIONAL COURSES

8:00-10:00am..... **Room 1: PBM in Supportive Care in Cancer**.....Prof. René-Jean Bensadoun
8:00-10:00am..... **Room 2: PBM in Wound Care**..... Prof. Praveen Arany
8:00-10:00am..... **Room 3: PBM Applications in Dentistry and Orofacial Disorders**.....Prof. Reem Hanna & Prof. Juanita Anders
8:00-10:00am..... **Room 4: PBM and the Mitochondria**.....Dr. Lilach Gavish

10:00-10:30am..... Break

10:30am-12:30pm **Room 1: Trials and Research Methodology**Prof. Praveen Arany & Prof. Liisa Laakso
10:30am-12:30pm **Room 2: PBM in Musculoskeletal Applications** Prof. Nivaldo Parizotto & Prof. Cleber Ferreresi
10:30am-12:30pm **Room 3: PBM in Neurology**.....Prof. Paolo Cassano
10:30am-12:30pm **Room 4: PBM and the Microcirculation: Mechanism and Applications**Dr. Lilach Gavish

12:30-1:30pm Lunch

THURSDAY WORKSHOPS

1:30-3:30pm **Room 1: Personalized Brain Photobiomodulation: AI-Guided & Control-Based Neuromodulation in Practice—Part 1**..... Dr. Lew Lim
1:30-3:30pm **Room 2: Preventing Neurodegeneration Through Whole-Body PBM Therapy: A Network Solution to the Gut-Brain-Sleep Axis—Part 1** Dr. Francisco Cidral

3:30-4:00pm Break

4:00-5:30pm **Room 1: Personalized Brain Photobiomodulation: AI-Guided & Control-Based Neuromodulation in Practice—Part 2**..... Dr. Lew Lim
4:00-5:30pm **Room 2: Preventing Neurodegeneration Through Whole-Body PBM Therapy: A Network Solution to the Gut-Brain-Sleep Axis—Part 2** Dr. Francisco Cidral

FRIDAY, OCTOBER 16, 2026

8:00-10:00am Keynote Lectures

10:00-10:30am..... Break

FRIDAY PLENARY SESSION

Theme: From Mechanisms to Clinical Practice: Translating PBM Science into Evidence-Based Care

10:30-10:55am **Photobiomodulation at 660 nm Activates Wnt/ β -Catenin Signalling & Enhances Wound Healing** Prof. Nicolette Hourel
10:55-11:20am..... **Lucia Proprio: Rationalized Cell Lineage & Contextual PBM Responses for Optimal Clinical Treatment Outcomes** Prof. Praveen Arany
11:20-11:45am..... **PBM in Cancer Supportive Care: Evidence-Based Indications, Clinical Applications, and Future Perspectives**Prof. René-Jean Bensadoun
11:45am-12:10pm **WALT Position Paper 2026: PBM Therapy for Orofacial Neuropathic Pain—Clinical Practice Guidelines & Consensus Using the HANNA Framework**Prof. Reem Hanna
12:10-12:35pm **Photobiomodulation and Lasers: Are We Treating the Brain?** Dr. Paolo Cassano

12:35-1:30pm Lunch

1:30-2:30pm WALT AGM—Members Only

FRIDAY BREAKOUT ROOM SESSIONS

Room 1: PBM in Neurology & Brain Disorders—Part 1

2:30-2:45pm **Case Studies of the Use of PBM Therapy for 7 Years: Patient Commitment to Long-Term Therapy for Parkinson's Disease** Dr. Brian Bicknell
2:45-3:00pm **Transcranial 1064 nm Laser PBM Improves Prefrontal Hemodynamic Response & Cognitive Function in Adults with ADHD**..... Dr. Farzad Salehpour
3:00-3:15pm **Non-Invasive Blood Photobiomodulation Reduces ASD Symptoms in Young Children: A Pilot Study**.....Dr. Daiane Meneguzzo
3:15-3:30pm **Intranasal & Transcranial Photobiomodulation Traumatic Brain Injury: Translational & Clinical Evidence** Dr. Lew Lim

Room 2: PBM in Wound Healing

2:30-2:45pm **Advances in Electrospun Nanofibrous Scaffolds & Photobiomodulation Therapy for Diabetic Wounds**..... Prof. Sathish Sundar Philip Kumar
2:45-3:00pm **Laser-Stimulated Human Gingival Fibroblasts: Alterations in Migration, Secretome Production, & Induction of Reactive Oxygen Species** Dr. Marggie Grajales Ramirez
3:00-3:15pm **Effects of Photobiomodulation as Adjunctive Therapy on Pressure Ulcer Healing: A Randomized Clinical Study**..... Dr. Magda Souza Viana
3:15-3:30pm **Optimizing Wound Healing Outcomes Using Photobiomodulation Therapy**..... Dr. Sara Ciurca

Room 3: PBM in Cardiology

2:30-2:45pm **Acute Effects of Whole-Body PBM on Blood Pressure in Individuals with Hypertension**..... Dr. Lara Maria Bataglia Espósito
2:45-3:00pm **Whole-Body PBM in Individuals with Type 2 Diabetes Mellitus & Hypertension**..... Prof. Cleber Ferreresi
3:00-3:15pm **Skin Temperature Changes Following Whole-Body PBM in Individuals with Hypertension**..... Dr. Lara Maria Bataglia Espósito
3:15-3:30pm **Effects of Vascular PBM as an Adjunct Therapy in the Treatment of Sickle Cell Disease: Impact on Pain, Vital Signs, & Hematology** Dr. Thais Azevedo Reis

3:30-4:00pm Break

Room 1: PBM in Neurology & Brain Disorders—Part 2

4:00-4:15pm **5-Year Follow-Up of PBM in Parkinson's Disease: A Case Series Exploring Clinical Stability & Microbiome Modulation** Dr. Brian Bicknell
4:15-4:30pm **Home-Based Intranasal & Transcranial PBM for Cognitive Dysfunction in Post-COVID Condition** Dr. Lew Lim
4:30-4:45pm **Improving Aphasia Outcomes with Transcranial PBM Combined with Speech-Language Therapy: A Case Study**Dr. Karla Estrada Rojas
4:45-5:00pm **EEG-Guided PBM for Cognitive & Neuropsychiatric Outcomes: A Translational Clinical Approach**Dr. Kody Newman
5:00-5:15pm **Transcranial PBM as an Adjunctive Therapy for Drug-Resistant Epilepsy in a Dog: A 5-Year Case Report**.....Dr. Alain Lecat
5:15-5:30pm **Route-Specific Brain Effects of Photobiomodulation & Control of Brain-State Dynamics**..... Dr. Lew Lim

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FRIDAY, OCTOBER 16, 2026

FRIDAY BREAKOUT ROOM SESSIONS

Room 2: PBM in Dentistry & Orofacial Disorders

4:00-4:15pm	904 nm Laser PBM Increases Mitochondrial Membrane Potential in Cell Bodies of Neonatal Dorsal Root Ganglion Neurons & Schwann Cells in Vitro	Dr. Roberta Chow
4:15-4:30pm	Photobiomodulation Future of Medicine	Prof. Dana York
4:30-4:45pm	Fast but Not Furious! PBM Therapy in Alleviating Pain & Accelerating Orthodontic Tooth Movement in Children	Prof. Chandrashekar Yavagal
4:45-5:00pm	Applications of Photobiomodulation in Periodontal Practice: Case Series	Dr. Janina Golob Deeb
5:00-5:15pm	Analgesic Outcomes of 650 nm vs. 810 nm Diode Laser PBM After Dental Implant Placement	Dr. Mohamed Yehya
5:15-5:30pm	PBM Therapy for Management of Post-Treatment Dental Paresthesia: A Clinical Protocol & Case Series	Dr. Saba Khan

Room 3: PBM in Supportive Care in Cancer

4:00-4:15pm	Feasibility & Efficacy of PBM in the Prevention & Treatment of Radiotherapy-Induced Oral Mucositis & Radiation Dermatitis	Dr. Belinda Mandrell
4:15-4:30pm	Targeting Oral Neuropathic Pain with PBM: Mechanisms, Clinical Applications, & Implementation in Cancer Supportive Care	Prof. Reem Hanna
4:30-4:45pm	PBM in Breast Cancer-Related Lymphoedema: Effects on Limb Volume & Quality of Life	Dr. Kate Perkins
4:45-5:00pm	Impact of PBM on Oral Mucositis, Pain, & Microbiota in Head & Neck Cancer Patients Undergoing Antineoplastic Therapy	Dr. Iasmym Mendes de Jesus
5:00-5:15pm	Clinical & Economic Benefits of PBM for Oral Mucositis: Reduced Pain, Opioid Use, Hospitalisation, & Cost	Mr. James Carroll
5:15-5:30pm	Timing of Photobiomodulation in Head & Neck Radiotherapy: Impact on Radiation-Induced Fibrosis	Dr. Kate Perkins

SATURDAY, OCTOBER 17, 2026

SATURDAY PLENARY SESSION

Theme: Advancing Precision PBM: Innovation, Regeneration, & Intelligent Clinical Translation

10:30-10:55am	Effects of Resistance Training With/Without PBM on Muscle & Respiratory Function in Difficult-to-Control Asthma	Prof. Nivaldo Parizotto
10:55-11:20am	Artificial Intelligence as a Framework for Precision Photobiomodulation Dosing	Prof. Liisa Laakso
11:20-11:45am	Photobiomodulation Promote Tenogenic Fate in Adipose Mesenchymal Stem Cells in Three Dimensional Hydrogels	Prof. Heidi Abrahamse
11:45am-12:10pm	PBM Combined with Dynamic Thermal Imaging: An Emerging Approach for Functional Assessment of Microvascular Responses	Dr. Lilach Gavish
12:10-12:35pm	Photobiomodulation Regulates Neural Organoid Formation from Adipose-Derived Stem Cells in a 3D Culture Model	Prof. Anine Crous
12:35-1:00pm	Mechanisms of Effectiveness of PBM on Somatosensory Neurons & The Peripheral Nervous System	Dr. Roberta Chow

1:00-2:00pm Lunch

SATURDAY BREAKOUT ROOM SESSIONS

Room 1: PBM in Basic Science

2:00-2:15pm	Standardized PBM Dosimetry Enhances Bone Regeneration in Critical-Size Calvarial Defects: Influence of Beam Profile & Bio-Oss®	Prof. Reem Hanna
2:15-2:30pm	Optimizing PBM to Enhance Smooth Muscle Differentiation of Adipose-Derived Stem Cells in a 2D Model	Prof. Blassan George
2:30-2:45pm	Assessment of Dose-Dependent Effects of 1064 nm PBM Therapy on Human Tenocyte- & Bursa-Derived Cell Proliferation in Vitro	Mr. Zachary W. Sigman
2:45-3:00pm	PBM with 976 nm Diode Laser Enhances Osteoblastic Differentiation of Saos-2 Cells Cultured on Collagen Membranes	Dr. Marggie Grajales Ramirez
3:00-3:15pm	Artificial Intelligence as a Dosimetry Engine in Cross-Platform PBM: Predictive Modeling & Adaptive Protocol Design	Mr. Alan Kwong Hing
3:15-3:30pm	Near-Infrared PBM Therapy Improves Brain & Cardiovascular Function & Heart-Brain Communication in a Mouse Model of Alzheimer's Disease	Dr. Olga Fedorova

Room 2: PBM Metabolic & Endocrine Disorders

2:00-2:15pm	Does PBM Reduce Impact of Extraintestinal Manifestations & Influence the Gut Microbiome in Young Adults with Inflammatory Bowel Disease?	Prof. Liisa Laakso
2:15-2:30pm	Photobiomodulation in Kidney Disease: From Bench to Bedside	Dr. Ann Liebert
2:30-2:45pm	Abdominal Photobiomodulation as Gut-Brain Axis Therapy: Mechanisms, Dosimetry, & Translational Evidence	Dr. Gabriela Guimaraes
2:45-3:00pm	PBM in Chronic Autoimmune Thyroiditis: Novel Glutathione Modulation in Early Disease & Clinical Outcomes	Prof. Venera Berisha-Muharremi
3:00-3:15pm	Acute Effects of Whole-Body PBM on Glycaemic Control in Individuals with Diabetes Type 2	Prof. Cleber Ferraresi
3:15-3:30pm	Accelerated Reversal of Metabolic Syndrome with Adjunct Phototherapy	Dr. Denis J. Gendron

3:30-4:00pm Break

Room 1: PBM in Musculoskeletal Applications

4:00-4:15pm	Photobiomodulation Therapy for Knee Osteoarthritis (KOA) Applications Using a Novel Wearable PBM Device	Prof. Liisa Laakso
4:15-4:30pm	Self-Applied Home-Use Photobiomodulation Therapy Reduces Pain in Patients with Knee Osteoarthritis	Dr. Lilach Gavish
4:30-4:45pm	Effect of Photobiomodulation Therapy on Disability and Function in Low Back Pain	Dr. Cleuton Landre
4:45-5:00pm	Observational Study on the Use of PBM Lightforce Device in 227 Cases of Musculoskeletal Disorders: An 18-Month Follow-Up	Dr. Karim Kleiber
5:00-5:15pm	Photobiomodulation in Diabetes: Targeting Neurovascular Dysfunction for Tissue Regeneration	Dr. Victória Regina da Silva Oliveira

Room 2: PBM in Health, Performance, Longevity

4:00-4:15pm	The Effects of PBM on Heart Rate, Heart Rate Variability, VO ₂ Max, Sleep Quality, & Implications for Longevity & Health Span	Mr. James Carroll
4:15-4:30pm	PBM in Complex Female Infertility Profile: A Case Report with 12-Month Follow-Up & Review of Current Mechanism in Reproductive Photomedicine	Ms. Ruth Phipers
4:30-4:45pm	Diode Laser Assisted Facial Lifting: A New Technical & Case Report	Dr. Pilar Blanco
4:45-5:00pm	Why I Do Not Believe Your Dose: Beam Power, Beam Area, Irradiance, & Reproducibility in Photobiomodulation	Mr. James Carroll
5:00-5:15pm	Analysis of the Role Dental Sleep Medicine in the Detection, Assessment, & Therapeutic Support of Patients with Obstructive Sleep Apnea	Dr. Pilar Blanco
5:15-5:30pm	WALT Award for Best Young Investigator Presentation	

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VENUE INFORMATION



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2535 Las Vegas Blvd South, Las Vegas, NV 89109

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CONFERENCE REGISTRATION FEES

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2026

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Annual Conference, Certification & Exhibition

October 15-17, 2026 • Las Vegas, NV
Venue: Sahara Las Vegas Hotel

ALD Pricing

Full Conference Registration

	Member Rate Early Bird: By July 1	Member Rate By October 14	Non-Member Rate Early Bird: By July 1	Non-Member Rate By October 14
Doctor/Researcher/Scientist/Recent Grad	☐ \$795	☐ \$895	☐ \$945	☐ \$995
Military/Retired/Non-Practicing/Full-Time Faculty	☐ \$645	☐ \$695	☐ \$795	☐ \$845
Auxiliary/RDH/Office Manager (Non-Doctor)	☐ \$455	☐ \$495	☐ \$555	☐ \$595
Industry Representative (Non-Doctor/Non-Exhibitor)	☐ \$645	☐ \$695	☐ \$795	☐ \$845
Student (Must have student ID)	☐ \$150	☐ \$150	☐ \$245	☐ \$245
Spouse/Guest (Non-Staff, Non-Doctor, No CE)	☐ \$245	☐ \$245	☐ \$245	☐ \$245

Single Day Rate (Friday or Saturday)

	Member Rate Friday	Member Rate Saturday	Non-Member Rate Friday	Non-Member Rate Saturday
Dentists	☐ \$495	☐ \$495	☐ \$595	☐ \$595
RDH	☐ \$295	☐ \$295	☐ \$345	☐ \$345

Workshops

Mastering Frenectomy & Soft Tissue Surgery: Thursday, October 15	☐ \$795
Lasers for the GP and Beyond: Saturday, October 17	☐ \$495

WALT/NAALT Pricing

Full Conference Registration

	Member Rate Early Bird: By July 1	Member Rate By October 14	Non-Member Rate Early Bird: By July 1	Non-Member Rate By October 14
Full Registration	☐ \$795	☐ \$895	☐ \$945	☐ \$995
Student Registration	☐ \$150	☐ \$150	☐ \$245	☐ \$245

Registration Form

Name: _____

Email: _____ Phone: _____

Address: _____

City, State, Zip: _____

Payment by check is preferred; however, credit cards are accepted.

Enclosed is a check for the amount of (or process our payment in the amount of) \$ _____

Credit Card #: _____ Exp. Date: _____

Cardholder's Name: _____ 3-digit Security Code: _____

Cardholder's Billing Address: _____

Cardholder's Signature: _____

Fill out form and send to: Academy of Laser Dentistry, 15436 N Florida Ave, Suite 102, Tampa, FL 33613
Office Phone: 813.444.1011



Or Register at: **laserdentistry.org**