

Welcome to Dallas

ALD[®] 2023
Dentistry's Laser Meeting



2023 ALD 30th Anniversary
CONFERENCE PROCEEDINGS

GENERAL INFORMATION

Conference Design and Educational Methods

The Academy of Laser Dentistry's 30th Annual Conference is intended for educational and informational purposes to improve dental education, clinical practice, and dental research in the use of lasers in dentistry. Educational methods include lecture, discussion, and demonstration activities. The theme for 2023 is "Lasers for Practice Success".

Expected Learner Outcomes

Expected learner outcomes include a broad overview of the research and clinical aspects of lasers in dentistry. Presentations encompass applications in virtually all laser wavelengths for general dentistry, periodontics, esthetic dentistry, restorative dentistry, pediatric dentistry, implantology, and the business of dentistry. By means of lectures and live panel discussions, all attendees will have exposure to basic science and clinical laser use in many areas of dentistry. In addition, the specialty nature of this conference provides a networking between practitioners, researchers, and academicians leading to new interest and scientific breakthroughs in the field of dentistry.

Laser Certification Program

The educational objective of the Academy's Laser Certification Program is to provide candidates with an overview of the scientific fundamentals of lasers, the instruments themselves, safety issues, and clinical guidelines in accordance with the Curriculum Guidelines and Standards for Dental Laser Education.

Intended Audience and Background Requirements

The intended audience includes dentists in all disciplines, hygienists, dental assistants, office staff, industry representatives, government professionals, and anyone interested in learning about lasers in dentistry. The meeting is geared toward both novice and experienced laser practitioners who will share information about the use of lasers in dentistry. Unless specified otherwise for certain sessions, individuals attending the conference are not required to have any previous knowledge or experience in laser dentistry, medicine, or surgery.

Responsibility of Program Selection

The Academy's Conference & General and Scientific Sessions Committee is solely responsible for the review of submitted abstracts, selection of faculty and presenters, and approving the specific content of all continuing education (CE) activities.

Continuing Education Credit

Continuing education credit is available to all eligible participants. The amount of CE credit to be granted is determined according to the individual educational content of each presentation and course. Up to 17.5 CEU's are available in the 2023 program.

Thursday Pre-Conference	6.0 Participation
Friday	2.75 Lecture
Friday Workshops	3.0 Participation
Saturday.....	2.75 Lecture
Saturday Workshop.....	3.0 participation



The Academy of Laser Dentistry is an ADA CER.P Recognized Provider.

ADA CER.P is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education.

The Academy of Laser Dentistry and ADA CER.P do not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry.

Concerns or complaints about a CE provider may be directed to the provider or to the Commission for Continuing Education Provider Recognition at ADA.org/CERP.

Disclosure of Speaker and Faculty Commercial Relationships

According to the Academy's Conflict of Interest and Disclosure Policy, faculty and speakers for this conference are expected to disclose any economic support, personal interests, or potential bias that may be perceived as creating a conflict related to the material being presented. Disclosure statements appear on the ALD website, in the conference program, and in opening slides for individual speakers at the beginning of each presentation. This policy is intended to alert the audience to any potential bias or conflict so that participants may form their own judgments about the material being presented.

Disclaimer

The views expressed and materials presented represent the personal views of the individual participants and do not necessarily represent the opinion of the Academy of Laser Dentistry. While the General and Scientific Sessions Committee of the ALD is responsible for the selection of faculty and presenters and approving the specific content of all CE activities, the Academy assumes no responsibility for the content of the presentations made by individual participants or groups of participants. Selected presentations may include exploratory research or experimental procedures and are intended for informational purposes that may lead to new interest and scientific breakthroughs in the fields of dentistry.

Copyright

All proceedings of the Conference are intended solely for dissemination of knowledge relative to the art and science of lasers in dentistry. Any statement of presentation made is to be regarded as limited publication only and all property rights in the material presented, including common law copyright, are expressly reserved to the speaker or to the ALD. Any sound reproduction, transcript, or other use of the materials presented in the conference without written permission of the Academy of Laser Dentistry or the individual speaker is prohibited to the full extent of common law copyright in such material. Audio

and video taping is strictly prohibited unless prior permission is given by the Academy of Laser Dentistry.

The Academy of Laser Dentistry (ALD) is a not-for-profit organization qualifying under Section 501c(3) of the U.S. Internal Revenue Code. The Academy of Laser Dentistry is an international professional membership association of dental practitioners and supporting organizations dedicated to improving the health and well-being of patients through the proper use of laser technology. The Academy is dedicated to the advancement of knowledge, research, and education and to the exchange of information relative to the art and science of the use of lasers in dentistry. The Academy endorses the Curriculum Guidelines and Standards for Dental Laser Education.

Abstracts, presenter biographies, disclosure information, and product descriptions are published for educational purposes as submitted by the respective presenters. They do not necessarily represent the views of the Academy of Laser Dentistry. ALD is not responsible for the opinions expressed by the presenters and advertisers. The Academy reserves the right to edit all abstracts, course descriptions and summaries, biographies, and other program information. When substantial revisions are made, authors are given the opportunity to accept the changes or to withdraw their submittal.

Written permission must be obtained by the Academy to audiotape, videotape, duplicate, and/or distribute any portion of the conference program or proceedings. Photography of any kind during any session is prohibited without prior consent.

Practitioners are advised to investigate and consider which medical devices and materials are cleared by the U.S. Food and Drug Administration for safety and efficacy and which are considered experimental, and which procedures are considered within the applicable scope of their license, competence, skills, and abilities, as established by their education, training, and experience. Clinicians are advised to review the specific indications for use of their devices and to review their operator manuals for guidance on operating parameters before attempting similar techniques on their patients.

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April 20, 2023

Welcome to ALD 2023 Dallas!

I am delighted to welcome you to the Academy of Laser Dentistry 30th Annual Conference & Exhibition taking place, for the first time in 3 years, at the Hilton Dallas/ Plano Granite Park, April 20-22, 2023.

Our theme is Lasers for Practice Success.

As 2023 Conference Chair, I want you to have the same successful experiences, or even better, than I did when I attended my first ALD meeting. I know first-hand how the ALD meeting helped me and I want to help you.

While attending this meeting you are invited to participate in the lectures each morning and the hands-on courses in the afternoon and meet people eager to help you learn. It is for you that we work so hard to deliver high-quality hands-on courses and lectures.

My first ALD meeting in Nashville 2007 was an experience that keeps me coming back. I didn't know anyone, and I met caring people who made me feel welcome. They helped me learn about dental lasers in a way I understood, and it benefited my practice. Now, years later, these folks are my friends. I can't imagine practicing without lasers as a treatment choice. When you talk with other attendees ask questions like I did. I know you will find the rewards I find at each meeting.

This learning format includes a morning general session with short TED Talk-like 30-minute presentations followed by afternoon workshops on the same topics for deeper hands-on participation experiences. The intent, after not meeting in person for 3 years, is to make the most use of our time in Dallas by practicing our clinical skills and learning together. It's with support from our vendors and industry partners that we're able to bring these workshops to you. We are grateful for their product and educational support. Please support them with your purchases.

Socially, the Friday night Welcome Reception celebrates ALD's 30 years of serving the dental profession. Join us for a Texas-style celebration with music, dancing, and good conversation in the Exhibit Hall. Plan to support students and research with your bids during the Dr. Seidner Silent Auction fundraiser.

Networking during breakfast and lunch and the breaks is always enjoyable.

Do it!

Here are some CE highlights:

- Keynote Presentation: How to Leverage Your Laser to Transform Your Business with Nick Clausen
- Laser-Assisted Soft Tissue Applications in Everyday Dentistry
A workshop with Dr. John Graeber
- Lasers, Implants, Computer-Navigated Surgery and the Digital Workflow. How Does it all Fit in? with Dr. Robin Horton
- Laser-Assisted Esthetic Dentistry with Dr. Walid Altayeb
- Peri-Implantitis Revisited with Dr. Ed Kusek
- "Alone We Can Do So Little, Together We Can Do So Much" - Dentists and Hygienists Working Together with Moderator: Lynn Atkinson, RDH; Panelists: Yolanda Cox, RDH; Nicole Fortune, MBA, RDH; Meghan Radcliff, RDH; Angie Wallace, RDH; Mel Burchman, DDS, MALD; Marina Polonsky, DDS, MSc.

All of us, as members of the ALD, should be proud of our collective efforts for the progress that is being made to include lasers and light-based technologies into mainstream everyday patient care. So, take an active role; join in to relax, interact, share, learn, and most importantly enjoy your conference and camaraderie with your peers.

Reach out to me if you have any questions. Say "hello" if I don't see you first. I'm happy to be available for you here in Dallas and after the meeting.

Sincerely,

James S. Carreiro, DMD
ALD Conference Chair & President-Elect

Cell: 727-599-8527

Email: carreirojs7@gmail.com



ALD[®]

Academy of Laser Dentistry

April 21, 2023

Welcome to ALD 2023 Dallas!

I am delighted to welcome you to the Academy of Laser Dentistry 30th Annual Conference & Exhibition taking place for the first time in 3 years at the Hilton Dallas/Plano Granite Park, April 20-22, 2023.

Wherever you might be on your professional journey, the ALD 2023 Conference continuing education selections will inspire your use of lasers with new and innovative techniques. The schedule features hands-on workshops throughout the program intended to invigorate your dental laser experience and allow you to creatively innovate your dental practice with new techniques and applications. You'll enhance what you already know to make a difference for your patients.

On behalf of the entire conference team, I thank you for joining us and making this a special event in 2023!



Gail S. Siminovsky

Gail Siminovsky, CAE

Executive Director

Academy of Laser Dentistry



Academy of Laser Dentistry 2023 Annual Conference



Academy of Laser Dentistry 30th Annual Conference & Exhibition

Academy of Laser Dentistry - General Membership Meeting

April 22, 2023 12:00 pm – 12:30 pm | Prairie AB General Session

The Academy of Laser Dentistry will conduct its general membership business meeting on April 22, 2023 during the 30th Annual Conference of the Academy of Laser Dentistry. ALD President Dr. Sam Low will provide an update on the Academy programs and recognize our leaders. Dr. James Carreiro, President-Elect and Nominations Chairman, will conduct the election of Board Members and Officers. Eligible voting members present will be asked to vote to accept the nominees who will serve in the elective leadership positions for the Academy of Laser Dentistry.

Agenda

Call to Order, Dr. Sam Low, ALD President

Establish Quorum, Gail Siminovsky, CAE, Executive Director

Presidential Remarks - Academy Report

Election of Officers and Board of Directors,

Dr. James Carreiro, Nominations Chair

**The Nominations Committee has nominated these
ALD members to serve as elected leaders:**

Nominated Officers 2023-2024

Dr. Walid Altayeb, President-Elect
Dr. Grace Sun, Treasurer
Dr. Shigeyuki Nagai, Secretary

**The President and Immediate Past President, as follows, pass
automatically into these seats:**

Dr. James Carreiro, President
Dr. Sam Low, Immediate Past President

Continuing Directors-at-Large

Lynn Atkinson, RDH
Juliana Barros, DDS, MS
Laura Braswell, DDS
Nancy Fitzgerald, DMD
Marina Polonsky, DDS, MSc
Craig Sanford, DDS
Christopher Walinski, DDS



Board Advisors

Dr. Donald Patthoff, *Journal of Laser Dentistry* Editor, Appointed, non-voting
Gail Siminovsky, CAE, Executive Director, non-voting

New Business

President's Remarks, Dr. James Carreiro
Presidential Recognition of Dr. Sam Low

Adjournment

Mission of Our ALD Conference

To provide attendees with a positive educational experience that will leave them better equipped to provide improved patient care with increased provider satisfaction.

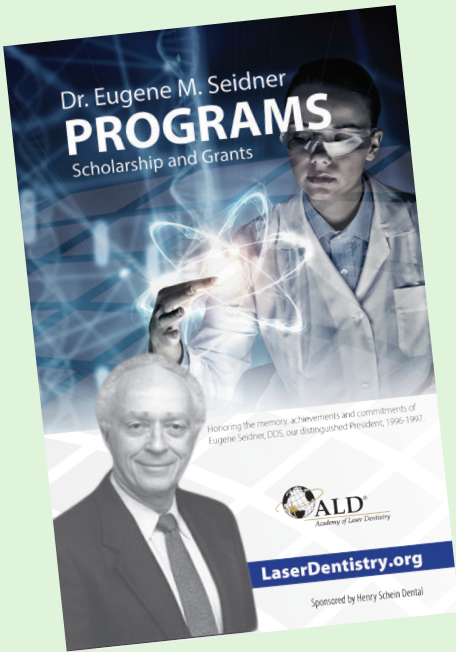
Academy Mission

The Academy of Laser Dentistry supports the safe and effective adoption of lasers in oral system health for patient well-being.

About the Academy

The Academy of Laser Dentistry (ALD) is an international, professional membership association of dental practitioners and supporting organizations dedicated to improving the health and well-being of patients through the proper use of laser technology. ALD is one of the largest nonprofit international organizations devoted to lasers in dentistry and includes leading clinicians, academicians, and researchers in all laser wavelengths. The Academy is devoted to clinical education, research, and development of standards and guidelines for the safe and effective use of dental laser technology. The Academy actively supports education and research through its programs, fosters dialogue, and seeks to build community among its members and dental organizations, educational institutions, researchers, industry representatives, and others who share our mission.

The Academy's official incorporation took place in 1993, following the merger of the American Academy of Laser Dentistry, the International Academy of Laser Dentistry, and the North American Academy of Laser Dentistry.



GIVING FUTURE

It's an exciting time for ALD. Our impact on students and researchers has increased significantly through your donations and the growth of ALD's Dr. Eugene Seidner Student Scholarship and Grants Program.

In 2004, our goal was \$100,000. In 2012 we reached that goal. And 6 years later research grants were added. Today the funds are safeguarded to be used for future research and student scholarship.

Since inception the Program has awarded \$125,000 to honor 39 dental students in 6 countries.

Since 2018, in just 5 years, the Program has provided an additional \$56,000 in research grants to 6 researchers at 4 universities. Applications for Research Grants for 2024 may open later in 2023.

In 2023 we honor 1 young dentist as our 2023 Dr. Eugene Seidner Student Scholar, Ridham Vrailal-Varsani, BDS | University at Buffalo School of Dental Medicine, Buffalo, New York, USA

Saturday, April 22, 2023 | 11:45 am - 12:00 pm

An Innovative Buffalo Fluoride Laser Odontoplasty (BFLO) Approach to Prevent Dental Caries

Dr. Varsani is a dentist and an epidemiologist-to-be. He grew up in India and earned his BDS from Saurashtra University, India, and is currently pursuing an MS degree with a concentration in epidemiology from the University at Buffalo, New York. His research interests include dental caries, diabetes, temporomandibular joint disorders, oral health disparities, oral esthetics, and the translation of research into practice. Currently, he is working on a couple of scientific projects that revolve around dentistry and epidemiology. During his undergraduate program, Dr. Varsani attended multiple national and state conferences and delivered multiple paper and poster presentations. He also conducted research on mental foramen at the same time. His current research is focused on developing novel applications for lasers in dentistry. He strives to work on three synergistic fronts by bringing epidemiological discoveries to lab research and translating these into clinical practice.

Disclosure: The Arany lab at the University at Buffalo has received unrestricted gifts of laser devices from several manufacturers. Dr. Praveen Arany also consults for several commercial, academic, and government entities.

Contact Dr. Varsani by e-mail at ridhamva@buffalo.edu.

More than 175 people have invested over \$237,000 to support laser education and research. ALD plans to offer research grants for many more years thanks to the generous donations.

Support the program and our young dentists on April 22, 2023. Participate in the Silent Online Auction to support the Dr. Eugene Seidner Student Scholarship and Research Grants programs. The Auction is open April 14-21, 2023. Auction winners are announced during Friday's Welcome Celebration.

We salute our
Dr. Eugene Seidner
winner



AWARDS

2023 ALD Awards Recipients

Many of the members of the Academy of Laser Dentistry (ALD) submerge themselves in the dynamics of laser dentistry on a day-by-day basis. They put in long days at the office serving their patients, and in their “free time” dedicate themselves in even deeper ways. They spend time in research, developing new treatment techniques, write journal articles, teach at seminars, mentor colleagues, and spend countless hours volunteering on Academy committees. They do this without the thought of being given an award.

The ALD has four awards to celebrate the hard work of its members:

- 1. the T.H. Maiman Award for Excellence in Dental Laser Research**
- 2. the Leon Goldman Award for Clinical Excellence**
- 3. the John G. Sulewski Distinguished Service Award for Outstanding Commitment and Contributions to the Academy**
- 4. the Dr. Glenda Payas Outstanding Educator Award that is presented for lifelong leadership excellence in dental laser education globally.**

In 2023 ALD honors the commitment of four outstanding individuals, each contributing to making our world a kinder, gentler place.

2023 T. H. Maiman Award Excellence in Dental Laser Research



Praveen R. Arany, BDS, MDS, MMSc, PhD

University at Buffalo, Buffalo, New York, USA

About Dr. Praveen R. Arany, BDS, MDS, MMSc, PhD

Dr. Arany trained as a dentist, oral pathologist, and biomedical engineer. He served as an Assistant Clinical Investigator at National Institute of Dental and Craniofacial Research, National Institutes of Health (NIDCR/NIH), Bethesda, Maryland, from 2012 to 2015. He is an Associate Professor at the University at Buffalo, New York. He has received numerous awards, such as the National Institutes of Health, American Society of Lasers in Surgery and Medicine Horace Furomoto and Wound Healing Society Young Investigator. He has been invited to speak in various national and international forums, reviews for over 100 scientific journals, serves on nine journal editorial boards, including associate editor for four of them, and reviews grants for national and international funding agencies. He is the immediate past-President of the World & North American Associations for Photobiomodulation Therapy and chair of photobiomodulation (PBM) groups in SPIE and Optica (OSA). He has 6 patents, more than 150 scientific publications with over 7500 citations, and an h-index of 35. His work has been featured in mainstream media highlights in over 100 countries.

Disclosure: Dr. Arany consults for Vielight, Kerber Applied Research, Luminance, IQ, Thor Photomedicine, Seaborough, and Shepherd University. His lab has received equipment as unrestricted gifts from Biolase, Summus, Weber Medical, Irradia, Kerber Applied Research. He is the cofounder of OptiMed Technologies, Conjunction, and Clinical Research Associates.

Contact: Dr. Arany by e-mail at prarany@buffalo.edu.

*It is an honor to recognize Dr. Praveen Arany
with the 2023 T. H. Maiman Award Excellence in
Dental Laser Research*

Acceptance from Dr. Arany

I would like to thank my colleagues at the Academy of Laser Dentistry for the honor of recognizing our research groups' clinical translational research efforts in lasers in dentistry, especially with Photobiomodulation. The tremendous progress in this field is poised to change our fundamental approach to clinical dentistry with an emphasis on precision, individualized care. It is a truly exciting time to be involved with lasers in dentistry as several policy and regulation changes are recognizing the significant utility of the field.

The T. H. Maiman Award is presented for excellence in dental laser research. The first laser was developed by Theodore H. Maiman in 1960. In 2023, Dr. Praveen Arany is honored with the T.H. Maiman award for research excellence in light therapy. The candidates are required to provide supportive documentation displaying the candidates' exceptional dental laser research. The criteria for the Maiman Award for excellence include publication in peer-reviewed journals as first or second author. This honor is not given every year. Dr. Arany joins a prestigious community of past recipients.

Dr. Joel White 1993

Dr. Lynn Powell 1995

Dr. Richard Blankenau 1996

Dr. Terry D. Myers 1998

Dr. Peter Rechmann 1999

Dr. Frederick Parkins 2000

Dr. Akira Aoki 2001

Dr. John Featherstone 2002

Dr. Craig Gimbel 2003

Dr. Linda Otis 2006

Prof. Raimund Hibst 2008

Dr. Daniel Fried 2009

Dr. Wayne Selting 2011

Dr. Sebastiano Andreana 2012

Dr. Georgios Romanos 2016

Dr. Shalifah Patel 2019

Dr. Juliana Barros 2019

James Carroll 2021

Dr. Praveen Arany 2023

2023 Dr. Glenda Payas Outstanding Educator Award



Angie Wallace, RDH
Owasso, Oklahoma, USA

About Angie Wallace, RDH

Angie Wallace is a laser educator for the Academy of Laser Dentistry (ALD), and has achieved her Mastership with ALD. She is currently the chair of ALD's Education Committee and serves on several other committees. Angie was the 2014 recipient of the John G. Sulewski Distinguished Service Award from the ALD. She has been recognized as an international speaker and provides in-office laser certification courses.

Disclosure: Ms. Wallace provides laser training and educational consulting through her company Laser Hygiene, LLC. She reports modest earnings from tuition for courses, and receives support with lasers for her educational programs from several laser companies. She also speaks for King Dental and Biolase and receives honoraria.

Contact: Ms. Wallace by e-mail at Angie@Laserrdh.com.

It is an honor to recognize Angie Wallace, RDH, with the 2023 Dr. Glenda Payas Outstanding Educator Award.

Acceptance by Angie Wallace, RDH

Thank you so much for having so much confidence in me to be worthy of this award!

I love teaching others about lasers and being a mentor to anyone who needs help on their laser journey! From the bottom of my heart I'm honored and very blessed!

The Dr. Glenda Payas Outstanding Educator Award is presented for lifelong leadership excellence in education globally. This honor recognizes original research, years of educational instruction in multiple different educational environments from elementary school to postgraduate teaching, published articles, and distinguished volunteer leadership service that supports education globally. This honor is selected by the Dr. Eugene Seidner Student Scholarship and Research Grants Board of Trustees.

Dr. David Roshkind 2021

Dr. Shigeyuki Nagai 2022

Angie Wallace, RDH 2023

2023 Leon Goldman Award for Clinical Excellence



Prof. Walid Altayeb, DDS, MSc, PhD
Doha, Qatar

About Professor Walid Altayeb, DDS, MSc PhD

Dr. Altayeb received his dental degree from the Faculty of Dentistry, Damascus University, in 1998 and completed his Master of Science in Periodontics in 2004 and Doctorate of Philosophy in Periodontics in 2007. He has achieved Advanced Proficiency certificates from the Academy of Laser Dentistry in 980-nm diode and Er:YAG lasers. Dr. Altayeb has Mastership in the Academy of Laser Dentistry, is a member of the ALD Board of Directors and Speakers Bureau. He is Guest Professor, Faculty of Dental Medicine, Istanbul Ayden University, Istanbul, Turkey and Universiapolis The International University of Agadir, Agadir, Morocco, and Lecturer in Università Cattolica del Sacro Cuore di Roma, Italy. Dr. Altayeb is Founder and Chair of the ALD Gulf Laser Chapter, and received The John G. Sulewski Distinguished Service Award from ALD in 2019. He is the founder of the laser section in the British Academy of Implant and Restorative Dentistry (BAIRD). He is a speaker in many conferences in the Middle East, Europe, and USA in the fields of Periodontal Medicine, Implantology, and Laser Dentistry. He is a continuing education provider, over 1140 CPD hours in last 7 years. Dr. Altayeb is conducting “Pink Aesthetics & Laser Dentistry” courses with the British Academy of Implant and Restorative Dentistry in the Middle East and North Africa. He served as the General Secretary of the iLED 2018 and 2019 Conferences. He is working in private practice as a periodontist and implantologist in the Tamim Dental Polyclinic, Doha, Qatar, Dr. Imran Aestheticare Center, Dubai, United Arab Emirates (UAE), and the Masters Dental and Aesthetic Center, Abu Dhabi, UAE.

Disclosure: Dr. Altayeb has no proprietary, financial, or personal interest of any nature in any product, service and/or company that will be discussed or considered during the program.

Contact: Dr. Altayeb by e-mail at draltayeb@hotmail.com.

It is an honor to recognize Dr. Walid Altayeb with the 2023 Leon Goldman Award, ALD's highest recognition of clinical excellence.

Acceptance by Dr. Atayeb

It is with sincere pleasure that I accept the Leon Goldman Award for Clinical Excellence. I am deeply humbled and grateful for this recognition. I would like to thank my colleagues and committee for recognizing my work.

I have always been passionate about laser dentistry and its potential to revolutionize dental care. This award is a testament to the hard work that I have put in over the last 25 years and it serves as an inspiration for me to continue striving for clinical excellence in laser dentistry.

Earning this award would not have been possible without the inspiration I have received from my friends, mentors, students, and colleagues, for whom I have the deepest respect, and from whom I have derived the strength to challenge myself and perform better at each stage. So, this award is not about me, but it's about each of you as ALD leaders and members. I want to thank my patients, whose trust and confidence in me have allowed me to pursue new treatment approaches and continually improve my skills. You are the reason I come into work each day, striving to provide the best possible care using the latest technologies and techniques.

Thank you so much to my beloved wife and children for always being my source of inspiration and motivation. This award of excellence would not have been possible without your unwavering support and love. I am truly grateful to have you in my life.

I am committed to using this recognition as a platform to continue to strive toward excellence in all aspects of my work and to share my knowledge and expertise in laser dentistry and contributing toward its growth and development.

Once again, thank you for this incredible honor. It means a lot to me!

The Leon Goldman Award for Clinical Excellence is presented for clinical excellence. Dr. Goldman was the first physician to report on laser exposure to a vital human tooth. In 2023 Dr. Walid Altayeb is honored with the Leon Goldman Award for Clinical Excellence. The candidates are required to provide supportive documentation displaying the candidates' exceptional clinical work. The criteria for the Leon Goldman Award for Clinical Excellence include: ALD membership, Advanced Proficiency Certification, clinical presentations annually, and recognized clinical excellence using lasers in dentistry in peer-reviewed journals. Dr. Altayeb joins a prestigious community of past recipients.

Dr. Kim Kutsch 1993

Dr. Robert Pick 1995

Dr. Steven Parker 1998

Dr. Donald J. Coluzzi 1999

Dr. Robert E. Barr 1999

Dr. Janet Hatcher Rice 2000

Ms. Nora M. Raffetto, RDH 2001

Dr. Duane H. Beers 2002

Dr. Gabi Kesler 2004

Dr. Glenn van As 2006

Dr. Frank Yung 2007

Dr. Giovanni Olivi 2007

Dr. Stu Coleton 2009

Dr. Shigeyuki Nagai 2010

Dr. Giuseppe Iaria 2011

Dr. Mel Burchman 2012

Dr. Larry Kotlow 2014

Dr. Fred Margolis 2014

Dr. Claus Neckel 2015

Dr. Gerry Ross 2016

Dr. Beatrijs Deruyter 2017

Dr. John Graeber 2018

Mary Lynn Smith, RDH 2018

Dr. Nuran Çulcuoglu 2019

Dr. Grace Sun 2021

Lynn Atkinson, RDH 2022

Dr. Walid Altayeb 2023

2023 John G. Sulewski Distinguished Service Award



Raminta Mastis, DDS
St. Clair Shores, Michigan

About Dr. Raminta Mastis, DDS

Dr. Mastis is a 1987 graduate from the University of Illinois College of Dentistry. She maintains a private dental practice, Michigan Cosmetic and Laser Dentistry, in St. Clair Shores, Michigan. She served as ALD's President 2018-2019, and in each Officer position prior to her Presidency. In 2023 Dr. Mastis is the Certification Chair. She previously served as Co-Chair of ALD's Certification and Education Committees, Chair of Laser Safety Committee, Communications Committee, and was the 2018 Chair of ALD's 25th Anniversary Conference & Exhibition in Orlando. Dr. Mastis has been using lasers since 2000 and has 18 lasers of various wavelengths in her practice. She holds Standard Proficiency certifications in Er:YAG, diode, Er,Cr:YSGG, and CO₂ laser wavelengths, and has achieved Advanced Proficiency in the Er:YAG wavelength. Her practice is highlighted by implant surgery and restoration, laser dentistry, esthetic and cosmetic dentistry, and integration of advanced technologies into practice. Dr. Mastis also holds ALD Mastership status.

Disclosure: Dr. Mastis no commercial affiliations or personal conflicts of interest.

Contact: Dr. Mastis by e-mail at milaserdentist@comcast.net.

It is an honor to recognize Dr. Raminta Mastis with the 2023 John G. Sulewski Distinguished Service Award for Outstanding Commitment and Contributions to the Academy.

Acceptance by Dr. Mastis

I am very grateful to have been selected to receive the John G. Sulewski Distinguished Service Award. I am so honored to have my efforts in the ALD recognized in this way. It is a particular honor to receive this award named after my fellow colleague and practically neighbor from Michigan, dear friend John Sulewski, and for the inspiration from his dedication that made my leadership roles in the Academy possible. The ALD has become a part of my extended family, there are so many members that I hold dear. This camaraderie has helped fuel my passion for laser dentistry in helping not only advance its possibilities but also to broaden the acceptance of this amazing technology. It has been a rewarding experience to have led the ALD in various capacities, and I can only hope that at least in some small way I helped make a difference. I am very appreciative of those who recommended me for this award. This award should be shared among many of you, my colleagues, who were always willing to help out. My gratitude goes out to you. I would also like to thank both my husband and my son for their patience and love throughout my years of service to the Academy. Oftentimes, they had to take a back seat to my time spent with the ALD, but they have always been supportive. Thank you so much for this honor.

The John G. Sulewski Distinguished Service Award is presented for outstanding commitment and contribution to the Academy. In 2023, Dr. Mastis is presented with the John G. Sulewski Distinguished Service honor. The Distinguished Service Award recognizes leadership and participation in the Academy far above the call of duty including Board of Directors service. Dr. Mastis joins esteemed colleagues as honorees.

Dr. Stewart Rosenberg 1993	Dr. Joel White 2005	Dr. Mitch Lomke 2015
Dr. Scott Brundrett 1995	Dr. Donald Coluzzi 2006	Dr. Glenda Payas 2016
Mr. John Sulewski 1996	Dr. Art Levy 2007	Dr. Arun Darbar 2017
University of California, San Francisco 1997	Dr. Lester Burman 2008	Dr. Scott Benjamin 2018
Dr. David M. Roshkind 1998	Dr. Dennis Pietrini 2009	Dr. Walid Altayeb 2019
Dr. Alan J. Goldstein 1999	Dr. Steven Parker 2010	Dr. Ana Maria Triliouris 2021
Dr. William Siminovsky 2000	Dr. Charles Rhodes 2011	Dr. Lawrence Kotlow 2022
Dr. Stuart Coleton 2002	Dr. Emile Martin 2012	Dr. Raminta Mastis 2023
Dr. Donald Patthoff 2003	Dr. Robert Convissar 2013	
Dr. Tony Hewlett 2004	Ms. Angie Mott, RDH 2014	

Thank you

With sincere appreciation to the many volunteers and staff teams that worked tirelessly to create a memorable 30th Anniversary Conference & Exhibition to Dallas.

Executive Officers

Sam Low, DDS, MS, MEd, President, Palm Coast, FL
James Carreiro, DMD, President-Elect, Largo, FL
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Grace Sun, DDS, FAACD, MALD, MAGD, MICOI, Secretary, Los Angeles, CA
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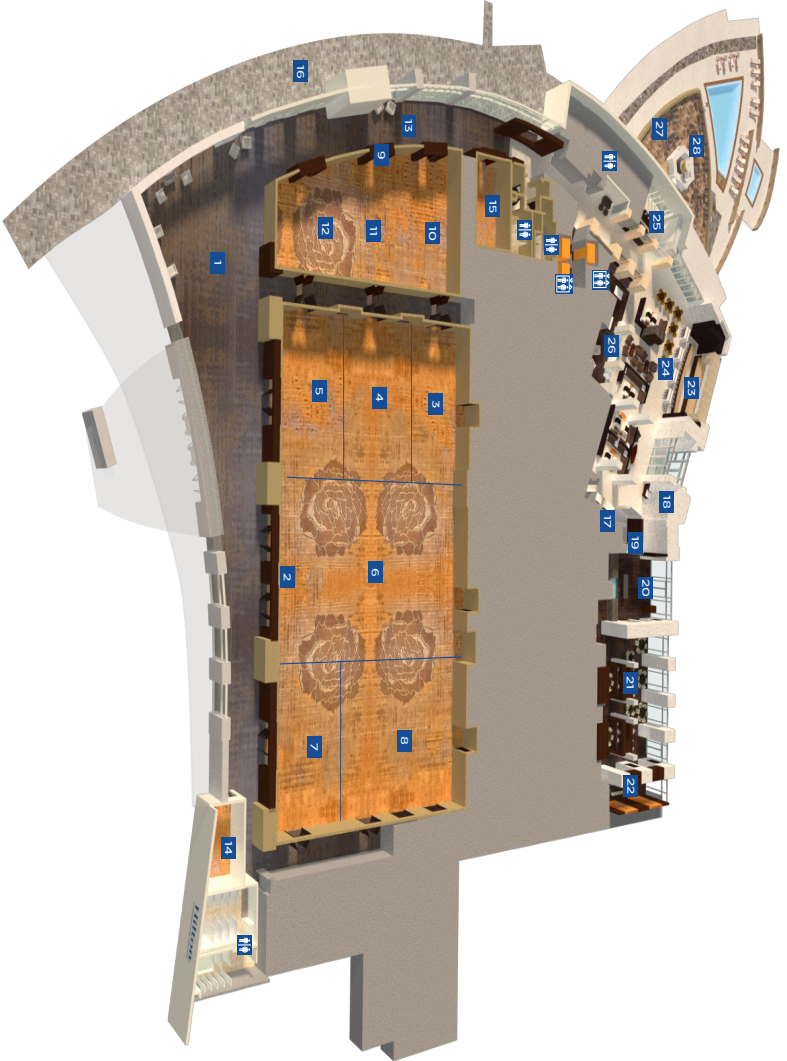
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Host Hotel Floor Plan



LEGEND

- 1- Prairie Foyer
- 2- Prairie Ballroom
- 3- Prairie A
- 4- Prairie B
- 5- Prairie C
- 6- Prairie D
- 7- Prairie E
- 8- Prairie F

- 9- Bluestem Ballroom
- 10- Bluestem 1
- 11- Bluestem 2
- 12- Bluestem 3
- 13- Bluestem Foyer
- 14- Granite Ballroom
- 15- Cotton Room
- 16- Patio

- 17- Front Desk
- 18- Conclerge
- 19- Pantry
- 20- Carso Market
- 21- Carso Restaurant
- 22- Carso Private Dining
- 23- Prairie Fire Bar
- 24- Prairie Fire Lounge

- 25- Sunflower Room
- 26- Technology Center
- 27- Fire Pit
- 28- Pool & Whirlpool



THURSDAY, APRIL 20, 2023

7:00 am - 6:30 pm	Speaker Check-in	Granite Boardroom
7:15 am - 3:15 pm 5:00 pm - 7:00 pm	ALD Registration Desk Open	Prairie Foyer
8:00 am - 8:45 am	Continental Breakfast	Bluestem Foyer
9:00 am - 4:30 pm	Pre-Conference Certification Program	
9:00 am - 4:30 pm	ALD Dental Laser Standard Course - A Certificate Program <i>Dr. Juliana Barros, Dr. Shalizeh Patel, Angie Wallace, RDH</i>	Bluestem 2-3
9:00 am - 4:30 pm	Advanced Module Esthetics Module: Laser Assisted Esthetic Dentistry <i>Dr. Walid Altayeb Sponsored by Biolase</i>	Bluestem 1
12:00 pm - 1:00 pm	Lunch Break	Prairie Foyer
3:00 pm - 3:15 pm	Afternoon Refresh Break	Prairie Foyer
5:00 pm - 7:00 pm	ALD Registration Desk Open	Prairie Foyer
5:00 pm - 5:30 pm	ADEA SIG LID Meeting American Dental Education Association -Special Interest Group-Lasers in Dentistry	Bluestem 1
5:30 pm - 6:00 pm	Conference Orientation: How to Get the Most Knowledge and Enjoyment as a First-Time Attendee <i>John Sulewski, MA & Dr. James Carreiro, Conference Chairman</i>	Bluestem 2-3
6:00 pm - 6:30 pm	Industry Leaders Invitation to Meet ALD Leaders <i>Dr. James Carreiro, Dr. Walid Altayeb, Gail Siminovsky, CAE</i>	Sunflower
6:30 pm - 8:00 pm	President's Appreciation Reception for International Guests, Volunteers & Industry Partners (By Invitation)	Carsu Patio

FRIDAY, APRIL 21, 2023

7:15 am - 8:15 am	Continental Breakfast in Exhibit Hall	Prairie DEF
7:15 am - 4:00 pm & 6:30 pm - 9:00 pm	Exhibit Hall Open Silent Auction for Dr. Seidner Student Scholarship and Research Grants	Prairie DEF
7:15 am - 4:00 pm	ALD Registration Desk Open	Prairie Foyer
8:30 am - 5:15 pm	<i>ALD Heartland Dental Laser Standard Course - A Certificate Program</i>	Bluestem 2-3
8:30 am - 12:10 pm	Educational Programming - General Sessions	Prairie ABC
8:30 am - 9:15 am	Keynote: Lasers for Practice Success: How to Leverage Your Laser to Transform Your Business <i>Nick Clausen, MBA</i>	Prairie ABC
9:15 am - 10:15 am	Taking Photobiomodulation to the Mainstream Use in Dentistry <u>Moderator: <i>Dr. Chris Walinski</i> Panelists: <i>Dr. Praveen Arany, James Carroll, Dr. Grace Sun</i></u>	Prairie ABC
10:15 am - 10:45 am	Morning Refresh Break in Exhibit Hall	Prairie DEF
11:00 am - 11:30 am	An Introduction to Dental Sleep Medicine <i>Dr. Jeffrey Harrison</i>	Prairie ABC
11:30 am - 12:00 pm	The 10 Commandments of "En-Lightened" Dentistry <i>Dr. John Graeber</i>	Prairie ABC
12:00 pm - 12:10 pm	ALD Award Presentation: T.H. Maiman Award for Excellence in Dental Laser Research ALD Award Presentation: Dr. Glenda Payas Educator Award	Prairie ABC

12:10 pm - 1:30 pm	Lunch and Café Chats in Exhibit Hall	Prairie DEF
1:45 pm - 5:15 pm	Educational Programming - Hands-On Workshop (Concurrent sessions)	
	Nick Clausen, MBA Restorative Dentistry: Doing Laser Cavity Preps Without Anesthesia That Will “Wow” Your Patients and Increase Production	Bluestem 1
	Dr. John Graeber Laser-Assisted Soft Tissue Applications in Everyday Dentistry	Prairie A
	Dr. Jeffrey Harrison - Pathway to Success in Dental Sleep Medicine Dr. Scott Parker - Sleep, Snoring, and Airway Issues: Why Do Lasers Matter? Dr. Tony Bolamperti - Treatment of Snoring with the 9.3 micron CO ₂ Laser	Prairie B
	Dr. Mel Burchman, Dr. Arun Darbar, Dr. Grace Sun PBM: A Practical Workshop	Prairie C
3:15 pm - 3:45 pm	Afternoon Refresh Break in Exhibit Hall	Prairie DEF
5:15 pm - 6:15 pm	PBM Foundation Meeting	Sunflower
6:30 pm - 9:00 pm	30th Annual Anniversary Welcome Party in Exhibit Hall - Everyone Welcome!	Prairie DEF

SATURDAY, APRIL 22, 2023

7:00 am - 2:30 pm	Speaker Lounge	Granite Ballroom
7:15 am - 2:30 pm	Exhibit Hall Open	Prairie DEF
7:15 am - 2:30 pm	ALD Registration Desk Open	Prairie Foyer
7:15 am - 8:15 am	Continental Breakfast in Exhibit Hall	Prairie DEF
8:30 am - 12:30 pm	Educational Programming – General Session Track 1	Prairie AB
8:30 am - 9:00 am	PBM and Acupuncture in Orofacial Pain Management <i>Dr. Grace Sun</i>	Prairie AB
9:00 am - 9:30 am	A Comparative Twin Study of Radiation-Induced Side Effects and Their Mitigation by a PBM Protocol in Equivalent Head and Neck Cancer <i>Dr. Ann Liebert</i>	Prairie AB
9:30 am - 10:00 am	Lasers, Implants, Computer-Navigated Surgery and the Digital Workflow. How Does It All Fit In? <i>Dr. Robin Horton</i>	Prairie AB
10:00 am - 10:30 am	Morning Refresh Break in Exhibit Hall	Exhibit Hall

10:45 am - 11:15 am	Peri-Implantitis Revisited <i>Dr. Ed Kusek</i>	Prairie AB
11:15 am - 11:45 am	Esthetic Crown Lengthening: Open-Flap Versus Flapless <i>Dr. Walid Altayeb</i>	Prairie AB
11:45 am - 12:00 pm	2023 Dr. Eugene Seidner Student Scholar An Innovative Buffalo Fluoride Laser Odontoplasty (BFLO) Approach to Prevent Dental Caries Ridham Vrailal Varsani, BDS University at Buffalo School of Dental Medicine	Prairie AB
12:00 pm - 12:30 pm	ALD General Membership Meeting ALD Award Presentation: John G. Sulewski Distinguished Service Award ALD Award Presentation: Leon Goldman Award for Clinical Excellence	Prairie AB
12:30 pm - 2:00 pm	Lunch and Café Chats in Exhibit Hall	Prairie DEF
8:30 am - 12:30 pm	Lasers and Adjunctive Therapies in Hygiene TRACK 2	Prairie C
8:30 am - 9:15 am	Greater Than the Sum of Their Parts: How Utilizing a Combination of Tactics Leads to the Best Patient Outcomes <i>Nicole Fortune, RDH</i>	Prairie C
9:15 am - 10:00 am	Using Lasers in the Hygiene Department to Give Your Patients the Highest Standard of Care <i>Lynn Atkinson, RDH; Angie Wallace, RDH</i>	Prairie C
10:45 - 11:15 am	Periodontal Treatment for the Post-Antibiotic Age <i>Meghan Radcliff, RDH</i>	Prairie C

11:15 am - 12:00 pm	Panel Discussion - "Alone We Can Do So Little, Together We Can Do So Much" - Dentists and Hygienists Working Together <i>Moderator: Lynn Atkinson, RDH</i> <i>Panelists: Yolanda Cox, RDH; Nicole Fortune, MBA, RDH; Meghan Radcliff, RDH; Angie Wallace, RDH; Mel Burchman, DDS; Marina Polonsky, DDS, MSc</i>	Prairie C
12:00 pm - 12:30 pm	ALD General Membership Meeting ALD Award Presentation: John G. Sulewski Distinguished Service Award ALD Award Presentation: Leon Goldman Award for Clinical Excellence	Prairie AB
12:30 pm - 2:00 pm	Lunch and Café Chats in Exhibit Hall	Prairie DEF
2:15 pm - 5:30 pm	Educational Programming - Hands-On Workshops (Concurrent sessions)	
	<i>Dr. Walid Altayeb</i> Laser-Assisted Esthetic Crown Lengthening Sponsored by Biolase	Bluestem 1
	<i>Dr. Samuel Low</i> Open Versus Closed Flap Laser Periodontal Surgery Sponsored by Biolase	Bluestem 2-3
	<i>Dr. Ed Kusek</i> ROI for Your 810/980-nm Diode Laser for Dentists Sponsored by Ultradent Products	Prairie A
	<i>Dr. Grace Sun , Dr. Rana Al Rasheed, Dr. Bebe Lin</i> Integrative Healing Workshop Sponsored by Oral IQ	Prairie B
	<i>Lynn Atkinson, RDH</i> Let's Get Physical - Lasers, Adjunctive Therapies, & Modalities: A Hands-On Rotation Workshop	Prairie C
3:30 pm - 3:45 pm	Afternoon Break	Prairie Foyer
5:30 pm - 7:00 pm	Attendee Appreciation Reception - Join Us on the Patio for farewell and refreshments	Carsu Patio
7:30 pm - 8:30 pm	ALD Board of Directors Meeting	Sunflower

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PRE-CONFERENCE PROGRAM

Thursday, April 20, 2023 | 9:00 am – 4:30 pm

ALD Dental Laser Standard Course – A Certificate Program

Juliana Barros, DDS, MS | Houston, Texas, USA;

Shalizeh Patel, DDS, MEd | Houston, Texas, USA;

Angie Wallace, RDH | Owasso, Oklahoma, USA

Audience: All Levels

This program is a peer-reviewed, hands-on training, comprehensive laser certificate course for the entire dental team. It provides candidates with a strong foundational understanding of laser physics, laser-tissue interaction, characteristics of various laser wavelengths, clinical case studies, laser safety, regulatory information, and a live hands-on portion.

NOTE: This course discusses investigational devices that have not yet received U.S. approval or clearance for the specified clinical indications or describes off-label uses.

Educational Objectives:

- Summarize the basic principles of laser physics and laser-tissue interaction.
- Define laser terminology and its clinical applications in achieving desired clinical outcomes.
- Recognize the importance of laser safety protocols.
- Relate laser indications in various clinical scenarios.
- Demonstrate laser operation and safety features in a hands-on learning assessment..

3-Part Certification Process

Part 1: Foundations in Laser Dentistry Online Digital Learning Platform - Pre-Conference Work 6 CEUs

We highly recommend that you complete Part 1 PRIOR to attending the conference.

- Chapter 1: Fundamentals of Light
- Chapter 2: Production of Light
- Chapter 3: Laser-Tissue and Laser-Material Interactions
- Chapter 4: Clinical Applications in Laser Dentistry
- Chapter 5: Laser Safety in Dentistry

NOTE: Each chapter is followed by an assessment. You will be enrolled in the Part 1: Foundations in Laser Dentistry Course on March 1, 2023 and will receive log-in instructions at that time.

Part 2: Hands-on Clinical Simulation Training and Exam (In-person, at conference on April 20, 2023) (6 CEUs)

This program includes a minimum of 6 hours of didactic device-specific or wavelength(s)-specific training, more than 3 hours of which are devoted to supervised hands-on activities which includes a comprehensive clinical simulation examination. Also included is a 1-hour review of the Part 1 key concepts and a course evaluation.

NOTE: Parts 1 and 2 must be successfully completed prior to taking the Standard Level Online Exam (Part 3).

Part 3: ALD Dental Laser Standard Level Online Exam (1 CEU)

This is a timed, 1-hour exam with 75 multiple-choice questions. This is a CLOSED book exam. The online exam is administered by the Academy of Laser Dentistry. You will have access to this exam after you have completed both parts 1 and 2. You will have 90 days from the hands-on course date to successfully complete the exam.

Successful Standard Level Course Completion

Upon successful completion of all 3 parts (by July 19, 2023), you will receive a Continuing Education Record of Completion and a Standard Level Course certificate noting the specific course participation and clinical simulation wavelength. You will also receive a Standard Level Course Certificate within 6-8 weeks from the course close date of July 19, 2023.

Thursday, April 20, 2023 | 9:00 am – 4:30 pm

Advanced Module – Esthetics Module: Laser-Assisted Esthetic Dentistry

Walid Altayeb, DDS, MSc, PhD | Doha, Qatar

Sponsored by Biolase

Audience: Advanced

This 6-hour CE program is a deep dive into the use of lasers for esthetic dentistry. The topics covered through lecture and video are followed by at least 3 hours of hands-on participation with specific instruction on esthetic procedures. This program assumes that the attendee has knowledge of laser-assisted dentistry and wants to learn and demonstrate advanced skills. This program satisfies one module of the ALD's Fellowship and Mastership Advanced Certificate program.

Laser topics covered:

- Management of gummy smile
- Flap vs. flapless esthetic crown lengthening
- Functional crown lengthening
- Gingival depigmentation
- Soft tissue procedure prior to restorative treatments
- Lip repositioning surgery
- Management of iatrogenic damages caused by restorative procedures
- Laser-assisted ceramic restoration removal

Educational Objectives:

- Outline the applications of laser usage in esthetic dentistry.
- Describe the concept of bio-esthetics in periodontology and how lasers could serve to achieve it.
- Review of the classification and treatment planning for gummy smile.
- Demonstrate the surgical techniques when performing esthetic crown lengthening with lasers.
- Compare flap and flapless esthetic crown lengthening using lasers.
- Evaluate and compare the efficacy of different laser wavelengths in removal of gingival hyperpigmentation.
- Plan the soft tissue preparation prior to prosthetic treatments.
- Adapt the correct laser parameters to achieve an excellent esthetic result.

Thursday, April 20, 2023 | 5:30 pm – 6:00 pm

Conference Orientation: How to Get the Most Knowledge and Enjoyment as a First-Time Attendee

James S. Carreiro, DMD | Largo, Florida, USA

John G. Sulewski, MA | Huntington Woods, Michigan, USA

Audience: All Levels

This presentation provides a guide to help attendees maximize their experience over the course of the conference and exhibition. What are the new attractions for 2023? What are the types of educational programs available on-site? Which ones offer an interactive, hands-on experience? Which ones present experimental usage, scientific findings, practice integration issues? What questions should you ask about instruments before purchasing? What opportunities are available for more casual and individualized interaction? What exactly does laser certification involve? For an objective view of these and other questions, plan to attend this informal session. It is designed for all participants, whether you are attending the conference for the first time, a new Academy of Laser Dentistry (ALD) member, considering purchasing your first laser, or a veteran user wishing to keep up with the latest developments. No previous knowledge of lasers is necessary.

Educational Objectives:

- Maximize your experience during the annual conference and exhibition by targeting your attendance and participation in programs that meet your specific needs.
- Gain access to a Conference Orientation document that contains a checklist for evaluating lasers, resources for evaluating dental literature, and a list of U.S. FDA marketing clearances in laser dentistry.

GENERAL SESSIONS

Friday, April 21, 2023 | 8:30 am – 9:15 am

Keynote: Lasers for Practice Success: How to Leverage Your Laser to Transform Your Business

Nick Clausen, MBA | West Des Moines, Iowa, USA

Audience: All Levels

Laser dentistry can create a better patient experience and better clinical results. Optimal laser implementation can also lead to compounded practice growth when done with intention and the entire team is involved. Understand how to leverage your laser to increase profitability by attracting more new patients and increasing case acceptance and 'same-day-dentistry.'

Educational Objectives:

- Recognize the unique characteristics of the dental marketplace and how to dramatically reduce patient anxiety utilizing your laser.
- Learn why and how a laser can transform both the patient experience and practice production.
- Summarize the communication tools and processes to increase case acceptance/enrollment of a variety of laser procedures.
- Understand how to simply and for free leverage the laser patient experience to dramatically increase new patient flow.

Friday, April 21, 2023 | 9:15 am - 10:15 am

Taking Photobiomodulation to the Mainstream Use in Dentistry

Moderator: Chris Walinski, DDS | Valhalla, New York, USA

Panelists: Praveen Arany, BDS, MDS, MMSc, PhD | Buffalo, New York, USA;
James Carroll, AMInstP, FRSM | Chesham, Buckinghamshire, United Kingdom;
Grace Sun, DDS, FAACD, MALD, MAGD, MICOI | Los Angeles, California, USA

Audience: All Levels

With more than 100 random clinical trials (RCTs) showing that Photobiomodulation (PBM) is safe and effective for a range of painful and nonhealing conditions, why is PBM not considered standard treatment in dentistry?

For this session, we will invite representatives from the American Dental Association (ADA), National Institute of Dental and Craniofacial Research (NIDCR), Food and Drug Administration (FDA), Centers for Medicare & Medicaid Services (CMS), along with dentists with regulatory and reimbursement experience, to present and participate in a panel session. Topics to be discussed include the steps necessary for PBM to become a mainstream procedure and the role each of the organizations play to help meet this goal. Audience participation is welcome during a Q&A session.

NOTE: This program discusses investigational devices that have not yet received U.S. approval or clearance for the specified clinical indications or describes off-label uses.

Educational Objectives:

- Provide a brief overview of photobiomodulation in dentistry.
- Learn the essential steps to reimbursement for PBM treatment.
- Understand the industry's role in the solution to making PBM mainstream in dentistry.
- Discover how to bill for some PBM procedures now.

Friday, April 21, 2023 | 11:00 am - 11:30 am

An Introduction to Dental Sleep Medicine

Jeffrey Harrison, DDS | Hollywood, Florida, USA

Audience: Novice

Why did the mouth get separated from the rest of the body? Where is the line of distinction between practicing Medicine versus Dentistry? Are you aware that every day, 1 of every 4 adults you see is suffering (usually unknowingly) from a not-so-silent killer known as obstructive sleep apnea? In large part, Medicine has failed to adequately identify and treat most of these patients and now dentists are finding themselves being asked to serve on the frontline for screening, helping patients get diagnosed, and oftentimes playing a key role in their management.

Make 2023 the year you begin recognizing the dental warning signs and symptoms of sleep-related breathing disorders. Begin collaborating with other healthcare providers and give the gift of improved breathing, sleep, and overall wellness to your patients.

Educational Objectives:

- Provide an overview of dental sleep medicine.
- Enumerate the signs and symptoms of sleep-related breathing disorders.
- Appreciate the prevalence of the obstructive sleep apnea epidemic.
- Summarize the protocol to follow in dental sleep medicine.

Friday, April 21, 2023 | 11:30 am – 12:00 pm

The 10 Commandments of “En-Lightened” Dentistry

John J. Graeber, DMD | Morristown, New Jersey, USA

Audience: All Levels

Lasers have been with our profession for more than 30 years! Much has been learned about each of the wavelengths. Much still needs to be learned and more importantly, much more research needs to prove the efficacy of laser usage. The majority of our dental colleagues have yet to embrace the benefits of lasers in dentistry. Why? Why has dental education not kept up with leading technological advances? Have dental professionals been overly trained and poorly educated?

Educational Objectives:

- Recognize the most important concepts of laser use.
- Describe how to optimize laser surgical outcomes.
- Learn how to recognize the subtleties to avoid burning tissue.
- Appreciate the value of magnification and lighting to enhance results.

Saturday, April 22, 2023 | 8:30 am – 12:30 pm

Track 1: General Session

Saturday, April 22, 2023 | 8:30 am – 9:00 am

PBM and Acupuncture in Orofacial Pain Management

Grace Sun, DDS, FAACD, MALD, MAGD, MICOI | Los Angeles, California, USA

Audience: All Levels

More than half of all Americans experience pain. 20-30% of these people suffer from orofacial pain. As health care practitioners we need to manage the pain as well as address the etiology in order to bring about the best outcome for the patient. While current, traditional treatment modalities are both respected and important, an integrative approach is essential, including photobiomodulation therapy (PBMT), acupuncture and Traditional Chinese Medicine (TCM), chiropractic medicine, osteopathic medicine, etc. Photobiomodulation treatment, a therapeutic form of red and infrared light therapy, has come to be a unifying term covering low-level laser treatment (LLLT), sourced from laser and/or light-emitting diode (LED) devices. PBM therapy increases healing efficiency, including reduction of inflammation and faster muscle recovery. Acupuncture, a complementary pain management modality, stimulates neurological responses including endorphin release and, by activating the meridian channel, reversing stagnation (pain) and increasing the flow of vital energy. These two modalities are in fact interdependent, complementing and fortifying one another's benefits. The meridian system can complementarily be activated with PBM when PBM is directed to the correct location. Meridian mapping techniques, the identification of correlated meridian points and anatomical landmarks, will be discussed.

NOTE: This presentation discusses investigational devices that have not yet received U.S. approval or clearance for the specified clinical indications or describes off-label uses.

Educational Objectives:

- Understand the significance of exploring alternative approaches to pain management.
- Review integrative approaches, including PBM therapy and acupuncture.
- Summarize the functional mechanisms of photobiomodulation and acupuncture.
- Learn how to integrate PBM into your patients' home care program.

Saturday, April 22, 2023 | 9:00 am – 9:30 am

A Comparative Twin Study of Radiation-Induced Side Effects and Their Mitigation by a PBM Protocol in Equivalent Head and Neck Cancer

Ann Liebert, PhD, BAAppSci, Grad. Dip. Manip. Ther. | Sydney, Australia

Audience: All Levels

Oral mucositis (OM) is a common side effect of radiation therapy for cancers, which has major consequences for the patient including severe pain, systemic infections, reduced nutritional intake, and adverse quality of life. The standard care currently available for OM is symptomatic, mainly directed toward pain remission (topical analgesics and parenteral drugs) and the prevention of secondary infection which have effects in the prevention and management of OM. Photobiomodulation therapy (PBMt) has been shown to stimulate tissue regeneration, reduce inflammation, and control pain. The National Institute for Health and Care Excellence (NICE) has included PBMt as recommended therapy for preventing OM caused by radiotherapy or chemotherapy, and the Multinational Association of Supportive Care in Cancer and the International Society of Oral Oncology (MASCC/ISOO) found the evidence for low-level laser therapy (LLLT)/PBMt in the prevention of OM in patients to be safe and potentially very effective.

A Quality Assurance study of the efficacy of pre-emptive PBMt to prevent/reduce severity of OM in radiotherapy patients was conducted at the San Hospital in Australia. Patients were given PBMt daily from before radiotherapy and throughout therapy, including home treatment when the clinic could not be attended. Results were clinically positive, with no patient in the study developing OM beyond level 1. One participant presented a unique opportunity to compare OM treatments and outcomes, as his twin brother suffered the same cancer and was treated with the same radiation therapy, but without PBMt, a number of years previously. Implications of the therapy will be discussed.

NOTE: This presentation discusses investigational devices that have not yet received U.S. approval or clearance for the specified clinical indications or describes off-label uses.

Educational Objectives:

- Summarize MASCC guidelines protocol implementation and their modification during COVID lockdown.
- Review mechanisms of action of PBM and their implications for precision medicine.
- Identify local and systemic targeted protocols with lymphatics / gylmphatics considerations.
- Understand the importance of dosing in oral mucositis treatment optimization.

Saturday, April 22, 2023 | 9:30 am – 10:00 am

Lasers, Implants, Computer-Navigated Surgery, and the Digital Workflow. How Does It All Fit In?

Robin Horton, BDS | Harpenden, Hertfordshire, United Kingdom

Audience: All Levels

This lecture is intended to show how lasers can and do fit in with the new exciting technologies that are currently shaping dentistry – intraoral scanners, cone beam computed tomography (CBCT) scans and guided implant surgery, 3D printers and milling machines. In the rush to jump on board the new revolution, don't forget your lasers, they enhance the patient journey at every step. Diode lasers for photobiomodulation, tissue trimming, etc., and all-tissue lasers for site opening, flap reflections, margin exposures, bone removal and shape modification, crown lengthening, socket decortification, emergence profile shaping. The list goes on! This presentation will show how lasers enhance the digital workflow and the outcomes that can be achieved.

NOTE: This presentation discusses investigational devices that have not yet received U.S. approval or clearance for the specified clinical indications or describes off-label uses.

Educational Objectives:

- Explain how lasers still fit in even with all the new digital pathways coming on stream.
- Specify how to use lasers when taking intraoral scans.
- Describe how to use lasers in extractions and guided surgeries.
- Summarize uses of photobiomodulation in dentistry.

Saturday, April 22, 2023 | 10:45 am – 11:15 am

Peri-Implantitis Revisited

Edward R. Kusek, DDS | Sioux Falls, South Dakota, USA

Audience: Advanced

This 30-minute lecture will provide attendees with a practical step-by-step approach for treating peri-implantitis with the use of dental lasers. Techniques include use of CO₂ and erbium lasers, ozone water, and photobiomodulation to treat cases.

NOTE: This presentation discusses investigational devices that have not yet received U.S. approval or clearance for the specified clinical indications or describes off-label uses.

Educational Objectives:

- Discover new peri-implantitis treatment procedures that have been developed since ALD's last consensus meeting in 2017.
- Enumerate steps to treat peri-implantitis that have been nearly 100% successful in the presenter's practice.
- Specify material used to treat peri-implantitis.

Saturday, April 22, 2023 | 11:15 am – 11:45 am

Esthetic Crown Lengthening: Open-Flap Versus Flapless

Walid Altayeb, DDS, MSc, PhD | Doha, Qatar

Audience: All Levels

In this short main stage presentation, an overview of esthetic crown lengthening (ECL) surgery will be described. The popularity of smile enhancement has increased the need for dental esthetic procedures to create a symmetrical and harmonious relationship between the gingival architecture, mouth, and surrounding facial structures. Esthetic crown lengthening surgery could be considered a suitable protocol for reducing the excessive gingival display associated with altered passive eruption and achieving more harmonious and symmetrical smiles. A detailed 3-hour workshop follows on this topic.

Educational Objectives:

- Discover how to meet the esthetic parameters through crown lengthening.
- Decide which surgical technique to apply in relation to the altered passive eruption diagnosis.
- Compare the clinical outcomes of erbium laser-assisted open-flap and flapless esthetic crown lengthening.
- Discuss timing for healing, temporization, and definitive restoration after surgical crown lengthening.

Saturday, April 22, 2023 | 11:45 am – 12:00 pm

2023 Dr. Eugene Seidner Student Scholar: An Innovative Buffalo Fluoride Odontoplasty (BFLO) Approach to Prevent Dental Caries

Ridham Vrailal-Varsani, BDS | University at Buffalo School of Dental Medicine,
Buffalo, New York, USA

Audience: All Levels

Introduction: There has been a paradigm shift in the approach to dental caries moving from extractions and replacements to prevention and preservation of natural oral-dental structures. Lasers in dentistry have been a rapidly evolving field, with treatments gaining popularity for many oral diseases.

Objective: This work examined two discrete applications of lasers to reduce occlusal surface complexity and increase fluoride incorporation.

Methods and Materials: Deidentified extracted human teeth were collected under University of Buffalo Institutional Review Board (UB IRB) protocol (#00001193) and sectioned and embedded in a polymer block. In the first part of the study involving enameloplasty, occlusal surfaces were treated with a 2,780-nm Er,Cr:YSGG dental laser (Waterlase iPlus, Biolase, Corona, Calif.) with MGG6 4 mm and MC12 9 mm tips at three different settings, 5, 6 or 7 W at 15 Hz with 40% water spray and 60% air cooling in continuous motion. Reduction in surface complexity was assessed with microcomputed tomography and dye retention following simulated mechanical brushing. A mechanical toothbrushing simulator (V-8 Cross Brushing Machine, Sabri Dental, Downers Grove, Ill., USA) was used at settings of 4.25 Hz toothbrush motion, ~160 cycles/min, 150 g load for 500 cycles which would be considered usual for an average person.

For the second phase involving fluoride uptake, untreated tooth enamel served as control. For the test groups, silver diamine fluoride (SDF) varnish (Advantage Arrest Silver Diamine Fluoride 38%, Elevate Oral Care®, West Palm Beach, Fla.) was used alone and in combination with various laser wavelengths. SDF was applied on the enamel surfaces followed by immediate continuous-wave laser irradiation, repeated three times. Laser energy was delivered via a stationary fiber held perpendicular to the surfaces of the tooth enamel. Tooth surfaces were irradiated individually and separately at different working distances and exposure durations (see table) with constant irradiance of 30 mW/cm². Applied dose was equal as estimated by the photonic fluence, adjusted to 3 J/cm² which is 4.5 p.J/cm², termed 1 Einstein*.

Phase 2 Laser Treatment

Laser Device	Wavelength (nm)	Working Distance (mm)	Exposure Duration (sec)
Dental Biostimulation Laser (Webberneedle Endo, San Diego, Calif.)	447	23.6	12
	658	21.6	54
	810	19.2	60
EPIC X, Biolase, Corona, Calif.	940	96.4	66
P4 K-Laser, Summus, Franklin, Tenn.	980	46.5	72
FOX, A.R.C. Laser, Nürnberg, Germany	1064	40.5	78

Samples were then subjected to acid demineralization study in lactic acid (10.2 M) solution for five days in an incubator at 37°C with mechanical agitations and samples were collected at days 0, 1, 3, and 5. Colorimetric assays (arsenazo and malachite green) were performed with a spectrophotometer (Molecular Devices). For the statistical analyses, we studied the differences individually between (1) untreated and SDF-treated groups followed by (2) all the SDF + Laser-treated groups with the SDF-treated group. A paired *t*-test and ANOVA were utilized in Excel and GraphPad Prism software.

Results: We observed that laser odontoplasty significantly ($n = 18, P < 0.05$) reduced surface complexity and increased self-cleansing occlusal areas. The combination of a red laser (658 nm at 30 mW/cm² for 54 sec at 1.62 J/cm², 3 p.J/cm² 0.7 Einstein) with SDF application significantly ($n = 2, P = 0.05$) reduced acid demineralization compared to only SDF-treated and untreated enamel surfaces. Samples treated with other wavelengths did not show any differences when compared to the SDF-treated and the untreated enamel controls.

Conclusion: We demonstrate the utility of a Buffalo Fluoride Laser Odontoplasty (BFLO) technique in reducing occlusal retentive surfaces and improving resistance to acid demineralization. This combined treatment approach can have a significant impact on clinical and public health dentistry, especially in preventing childhood caries.

* To enable comparisons of precise dose across different wavelengths (and their combinations), the term *Einstein* refers to wavelength-specific fluence or photonic fluence. It is calculated by adding the individual photon energy, in electron Volts (eV), to the product of the irradiance (mW/cm²) and time (sec) or simply the fluence (J/cm²). As the photonic fluence (denoted p.J/cm²) will vary dramatically

across different wavelengths, we employ the fluence 3 J/cm^2 at 810 nm , that has photon energy of 1.5 eV or photon fluence of 4.5 J/cm^2 as 1 Einstein. Thus, we can compare total energy utilized for each treatment most precisely in a wavelength-independent and combination-wavelength (simple sum of both photon fluences and one Einstein value) manner.

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Educational Objectives:

- Appreciate the biophysical basis of surgical and nonsurgical hard tissue laser applications.
- Assess feasibility of laser odontoplasty to increase self-cleansing occlusal surfaces.
- Examine the ability of hard tissue, nonablative lasers to increase enamel fluoride uptake.

Saturday, April 22, 2023 | 8:30 am – 12:30 pm

Track 2: Lasers and Adjunctive Therapies in Hygiene

Saturday, April 22, 2023 | 8:30 am – 9:15 am

Greater Than the Sum of Their Parts: How Utilizing a Combination of Tactics Leads to the Best Patient Outcomes

Nicole Fortune, MBA, RDH | Richmond, Vermont, USA

Audience: All Levels

As more research connects oral health to systemic health, the dental clinician plays an increasingly important role in patients' care through their lifetime. Scalers have been utilized for over 100 years and the burden of periodontal disease continues to rise. The scaler is a mono-approach to treating the dynamic process of oral inflammatory conditions.

Even with the advent of new technologies, clinicians continue to seek a single tool or procedure that will not only assist them in returning their patients to optimal oral health but also be the cornerstone of maintenance. The problem with searching for a single technology is that the process of eliminating disease and restoring oral health is multi-factorial. Today's modern procedures offer solutions to predictably treat the many aspects of periodontal disease from precision debridement to effective health maintenance.

Educational Objectives:

- Explain the rationale for a multi-resource approach to nonsurgical periodontal treatment.
- Recognize the benefits of individual products and procedures to long-term success in periodontal treatment.
- Consolidate implementation of various treatment modalities into a concise workflow.
- Analyze clinical cases and identify ideal treatments to create a predictable success.

Saturday, April 22, 2023 | 9:15 am – 10:00 am

Using Lasers in the Hygiene Department to Give Your Patients the Highest Standard of Care

Lynn Atkinson, RDH | Torrance, California, USA;

Angie Wallace, RDH | Owasso, Oklahoma, USA

Audience: All Levels

Lasers are used in the hygiene department as an adjunctive therapy and provide numerous benefits to improve patients' dental health and overall health. Lasers are now becoming the standard of care for many practices. This presentation is for the inquisitive beginner and advanced clinician looking for laser therapies to elevate the dental care for their patients. Some of the most common laser procedures used in hygiene will be introduced along with ways to implement these protocols in the practice.

Educational Objectives:

- Identify the most common laser procedures used in the hygiene department.
- Learn how these laser procedures are making a difference in patient care and outcomes.
- Understand how to introduce and implement this technology in our practices.

Saturday, April 22, 2023 | 10:45 am – 11:15 am

Periodontal Treatment for the Post-Antibiotic Age

Meghan Radcliff, RDH | Fieldon, Illinois, USA

Audience: All Levels

Treating periodontal disease not only improves oral health, it also reduces a chronic infectious burden on patients' immune system. We have prescribed antibiotics for decades, but they have a temporary, limited effect and we have entered the post-antibiotic age when antibiotics are no longer as effective as they once were. Laser therapy combined with Perio Tray™ therapy can overcome the limitations of antibiotics and give your patients long-term success. Attend this presentation to learn the science behind the use of peroxide and case presentation ideas.

Educational Objectives:

- Identify the benefits and limitations of antimicrobials with oxidative and oxygenating reactions for biofilm management.
- Recognize patient candidates who can benefit from Perio Tray™ therapy and the appropriate tray treatment protocol.
- Use a simple methods to help patients understand the importance of treatment.

Saturday, April 22, 2023 | 11:15 am – 12:00 pm

Panel Discussion: “Alone We Can Do So Little, Together We Can Do So Much” - Dentists and Hygienists Working Together

Moderator: Lynn Atkinson, RDH | Torrance, California, USA

Panelists: Yolanda Cox, RDH, MEd | Blacklick, Ohio, USA;

Nicole Fortune, MBA, RDH | Richmond, Vermont, USA;

Meghan Radcliff, RDH | Fieldon, Illinois, USA;

Angie Wallace, RDH | Owasso, Oklahoma, USA;

Mel Burchman, DDS, MALD | Langhorne, Pennsylvania, USA;

Marina Polonsky, DDS, MSc | Ottawa, Ontario, Canada

Audience: All Levels

What does it take to create a multifactorial hygiene department that utilizes adjunctive therapies to treat the many periodontal diseases we encounter every day? If we work individually or work with one modality we may not achieve the optimum results or outcomes for our patients. Join us as we give you several ideas from hygienists and dentists working together in order to give our patients the best opportunity to achieve these optimum results. A panel discussion will bring several experienced leaders together to bring what has worked in their practice. Questions and discussions will offer attendees a chance to receive valuable information geared toward the goals of their individual practice. Adjunctive therapies to be discussed include lasers, pain therapy, photobiomodulation (PBM), customized medicament trays, biofilm therapy, probiotics, digital impressions, diagnostic data and collection.

NOTE: This presentation discusses investigational devices that have not yet received U.S. approval or clearance for the specified clinical indications or describes off-label uses.

Educational Objectives:

- Discover ways that hygienists and dentists can work together to achieve optimum results for patients.
- Identify adjunctive therapies that can be incorporated into office protocols.
- Engage in a collaborative question-and-answer session and enumerate possible solutions identified by the leadership panel.

HANDS-ON WORKSHOPS (Concurrent)

Friday, April 21, 2023 | 1:45 PM – 5:15 pm

Restorative Dentistry: Doing Laser Cavity Preps Without Anesthesia That Will “WOW” Your Patients and Increase Production

Nick Clausen, MBA | West Des Moines, Iowa, USA

Audience: All Levels

Laser restorative dentistry is different, NOT harder, than traditional dentistry. Many times new laser owners try their laser on a restorative case, but due to an initial ‘bad experience’ the laser is not used on a cavity prep ever again. I hear time and time again that lasers are slow or they don’t work on cavity preps. However, with some foundational understanding of what causes those ‘bad experiences,’ what to avoid, and what are the critical technique keys and power adjustments, clinicians can not only do restorative dentistry without anesthesia, but can WOW their patients in prep times of 30 seconds to 3 minutes depending on the case. With a little bit of commitment, you can transform your patients’ dental experience!

Educational Objectives:

- Describe the 3 crucial technique keys required to efficiently and effectively ablate tooth structure.
- Know how to proactively manage power output for maximum patient comfort.
- Review how to manage laser treatment expectations and communicate with your restorative patient.
- Implement laser restorative case planning for optimal success.

Participating Vendors:

- Biolase
- Convergent Dental
- Fortune Management

Friday, April 21, 2023 | 1:45 PM – 5:15 pm

Laser-Assisted Soft Tissue Applications in Everyday Dentistry

John J. Graeber, DMD | Morristown, New Jersey, USA

Audience: All Levels

A diode laser can replace most conventional techniques utilized to manage soft tissue in the oral cavity. However, these laser devices are not utilized with the same techniques as scalpels, knives, and sulcular retraction cords. Unique diode laser techniques are taught and practiced in this workshop. Simulated *in vitro* exercises will simulate the most common soft tissue surgical and manipulative procedures. All procedures taught are shown in microscopic videography. A review of basic contact laser techniques and laser safety is included.

Educational Objectives:

- Practice the most common clinical laser procedures on *in vitro* models.
- Learn the proper surgical techniques using diode lasers.
- Experience how diode lasers can simplify surgical procedures in dentistry.
- Apply these skills on Monday morning in your own office.

Participating Vendors:

- Biolase
- CAO Group/AMD
- Deka
- Ultradent Products

Friday, April 21, 2023 | 1:45 PM – 5:15 pm

Pathway to Success in Dental Sleep Medicine

Jeffrey Harrison, DDS | Hollywood, Florida, USA

Audience: Novice

Starting and growing a thriving dental sleep medicine (DSM) practice has proven difficult to many dentists who try to do it on their own. In fact, only a select few have succeeded in a truly significant way. Even fewer have found robust success the way the founding ApZme practices have. In this hands-on workshop, Dr. Harrison will demonstrate and teach a DSM protocol used by all Sleep Group Solutions practices showcasing a proprietary acoustic pharyngometer technology known as EccoVision. EccoVision uses acoustic wave technology to measure size and distance of the entire nasal and oropharyngeal airway. Comparing a baseline size to its collapse guides dentists in uncovering their “at-risk” patients and also helps the providers determine the potential response a patient will have with jaw repositioning via oral appliance therapy. Limited home sleep testing devices will also be available for those wanting to complete an overnight study of their sleep. Obstructive sleep apnea, the not-so-silent killer, is impacting over 1 in 4 of your patients today. Please come learn how to save a life, not just teeth.

Educational Objectives:

- Discover “why” dentists are being asked to screen their patients for sleep-related breathing disorders and “how” to do this quickly and painlessly.
- Understand the workflow involved with moving a patient down the pathway of dental sleep medicine taking one all the way from screening to diagnosis and into therapy.
- Learn how to efficiently achieve effective patient outcomes with oral appliance therapy using EccoVision.

Sleep, Snoring, and Airway Issues: Why Do Lasers Matter?

Scott Parker, DDS | Woodland Hills, Utah, USA

Audience: All Levels

As dentists, we are often the first to recognize the signs of sleep disorders in our patients. While we continue to make progress in understanding the negative impact of sleep disruption and airway challenges in our society, we must continue to increase our knowledge and treatment options in order to improve the lives of our patients. Currently, oral appliance therapy (OAT) shows reasonable improvement in many sleep disorder conditions. But, what about our patients that don't respond well to traditional OAT or continuous positive airway pressure (CPAP)? And, how do we address our low body mass index (BMI) middle-aged patients with a low apnea/hypopnea index (AHI) that will not wear an oral appliance but sleep poorly? Being able to offer the benefits of fractional laser therapy allows us as clinicians to make a positive impact on our patients, whether in appliance therapy or not. We are seeing tremendous improvement in AHI, quality of sleep, and improvement in mental clarity with a simple 5-minute procedure. Utilizing a DEKA CO₂ fractional laser is one of the most efficient and effective first lines of defense that a clinician can use to improve quality of sleep. When treatment of snoring and airway issues is performed correctly, it can give instant relief as well as long-lasting improvement in the elasticity of collagen. This improvement can lead to more restful sleep, improved relationships with a significant other, and more productive mental focus and overall well-being.

Educational Objectives:

- Differentiate between laser wavelengths for treating sleep disorders.
- Dispel fallacies regarding scar tissue and charring.
- Discuss available options for monitoring airway treatment progress.
- Describe protocols for treating snoring and airway issues with the DEKA UltraSpeed CO₂ laser.

Participating Vendor:

- Deka Dental Lasers
-

Treatment of Snoring with the 9.3-micron CO₂ Laser

Anthony Bolamperti, DDS | Omaha, Nebraska, USA

Audience: All Levels

It is likely that more than 65% of your adult patients snore, often disturbing both their and their bed partner's sleep. People who snore typically have an airway issue, and that can complicate other systemic health issues, including an increased risk of cardiovascular disease and stroke.¹ Dr. Anthony Bolamperti will discuss how to identify patients who snore and how the 9.3- μm CO₂ all-tissue dental laser can provide patients with rapid relief by tightening and stiffening collagen in the soft palate.

¹Dunai A, Keszei AP, Kopp MS, Shapiro CM, Mucsi I, Novak M. Cardiovascular disease and health-care utilization in snorers: A population survey. *Sleep*. 2008 Mar;31(3):411-416. doi: 10.1093/sleep/31.3.411.

Educational Objectives:

- Learn how to diagnose snoring in the dental practice.
- Describe treatment of snoring with the 9.3- μm CO₂ all-tissue dental laser.
- Summarize the diagnosis of tethered oral tissues (TOTs) and available treatment solutions.

Participating Vendor:

- Convergent Dental

Friday, April 21, 2023 | 1:45 PM – 5:15 pm

PBM: A Practical Workshop

Mel A. Burchman, DDS, MALD | Langhorne, Pennsylvania, USA;

Arun Darbar, BDS, DGDP(UK) | Leighton Buzzard, Bedfordshire, United Kingdom;

Grace Sun, DDS, FAACD, MALD, MAGD, MICOI | Los Angeles, California, USA

Audience: All Levels

Photobiomodulation therapy (PBMT) is an important (and exciting!) part of laser dentistry, providing many benefits for enhancing patient experience and improving treatment outcomes. PBMT has been gaining popularity in recent years, and as such, it is important to grasp its mechanisms and its clinical applications. This 3-hour workshop will equip participants with the practical take-home knowledge necessary to administer PBMT right away.

NOTE: This workshop discusses investigational devices that have not yet received U.S. approval or clearance for the specified clinical indications or describes off-label uses.

Educational Objectives:

- Understand the scientific basis for PBM therapy and its clinical significance in pain reduction and wound healing.
- Learn the progression of PBM and the difference between lasers and light-emitting diodes (LEDs).
- Describe proper pre- and post-treatment conditioning for analgesic and lymphatic system benefits.
- Review PBM dosage principles to obtain desired clinical effects, including the alleviation of xerostomia, dentin hypersensitivity, mouth sores, angular cheilitis, lichen planus, and more.

Participating Vendors:

- Oral IQ
- Summus Medical Laser
- THOR Photomedicine

Saturday, April 22, 2023 | 2:15 PM – 5:30 pm

Laser-Assisted Esthetic Crown Lengthening

Walid Altayeb, DDS, MSc, PhD | Doha, Qatar

Sponsored by Biolase

Audience: All Levels

The popularity of smile enhancement therapy has increased the rationale for dental esthetic procedures to create a symmetrical and harmonious relationship between the gingival architecture, mouth, and surrounding facial structures. Esthetic crown lengthening surgery could be considered a suitable protocol for reducing the excessive gingival display associated with altered passive eruption and achieving more harmonious and symmetrical smiles. This course delivers all the necessary knowledge and steps to successfully diagnose and provide a treatment plan, as well as explain the safe applications of laser wavelengths and operational parameters during surgical crown lengthening.

The workshop comprises didactic scientific lecture, clinical cases discussion, and additional hands-on experience in performing the crown lengthening procedure with a selected laser wavelength. Each participant will gain hands-on experience with a selected laser wavelength performing surgical crown lengthening on animal jaws including:

- Laser instrumentation
- Specific laser settings
- Gingivectomy
- Ostectomy
- Apically repositioned flap
- Flapless crown lengthening

Educational Objectives:

- Learn how to meet the esthetic parameters through crown lengthening.
- Identify the four possible scenarios of crown lengthening surgery.
- Compare flap and flapless crown lengthening, and specify when and why each is performed.
- Demonstrate and apply laser techniques in esthetic and restorative-driven crown lengthening procedures.
- Develop the skills and ability to perform crown lengthening surgery.

Saturday, April 22, 2023 | 2:15 PM – 5:30 pm

Open Versus Closed Flap Laser Periodontal Surgery

Samuel Low, DDS, MS, MEd | Palm Coast, Florida, USA

Sponsored by Biolase

Audience: All Levels

While traditional methodologies such as flap and osseous procedures have resulted in success, their acceptance by the lay public has been marginal. Various dental laser wavelengths utilized to manage periodontitis have demonstrated clinical success with positive patient-related outcomes and a concomitant decrease in recession. To attain success, a minimally invasive laser procedure must adhere in detail to the principles of wound healing. This workshop will identify each step and create in a workbook format the details of open versus closed flap protocols from de-epithelialization to degranulation and decortication. Each participant will undertake laser flap procedures. Nonlaser components may include microthin ultrasonics and innovative medicinal air delivery systems. Adjunctive steps and indications will be introduced including osseous grafting and biologic mediators to enhance regeneration. Postoperative management systems along with case presentation and marketing will be explored along with third-party coding.

Educational Objectives:

- Determine case selection for open flap versus closed flap laser procedures including indications.
- Develop in a stepwise fashion a comprehensive open versus closed flap laser periodontal procedure resulting in decreased pocket depth and minimal recession.
- Create positive patient management including acceptable patient-related outcomes.

Saturday, April 22, 2023 | 2:15 PM – 5:30 pm

ROI for Your 810/980-nm Diode Laser for Dentists

Edward R. Kusek, DDS | Sioux Falls, South Dakota, USA

Sponsored by Ultradent Products

Audience: Novice

This 3-hour hands-on course will allow participants to utilize the 810/980-nm diode laser for procedures that a general dentist can perform on Monday with a little guidance from the speaker. Procedures include biopsy techniques, troughing for impressions, aesthetic recontouring, pontic site development, frenectomies, laser-assisted periodontal therapy, laser bacteria reduction, photobiomodulation, and more.

NOTE: This workshop discusses investigational devices that have not yet received U.S. approval or clearance for the specified clinical indications or describes off-label uses.

Educational Objectives:

- Comprehend how to use the 810/980-nm diode laser in proper technique to make treatment faster, more efficient, and more comfortable.
- Explain how to use photobiomodulation to WOW your patients.
- Identify insurance codes to get optimum benefit for your patients.

Saturday, April 22, 2023 | 2:15 PM – 5:30 pm

Integrative Healing Workshop

Grace Sun, DDS, FAACD, MALD, MAGD, MICOI | Los Angeles, California, USA;

Rana Al Rasheed, BDS | Los Angeles, California, USA;

Bebe Lin, DAOM | Los Angeles, California, USA

Sponsored by Oral IQ

Audience: All Levels

Comprehensive management of orofacial pain has traditionally been limited to conservative Western treatment modalities and lifestyle choices. When photobiomodulation and acupuncture are added to the treatment mix, a modern integrative approach presents itself, bringing together the best of Western and traditional Chinese medicine, for a more effective and safe treatment, particularly for chronic conditions. This integrative approach not only addresses compromised physical conditions in need of healing and pain relief but also contributes to homeostasis and to the overall health and well-being of the patient.

In 2018, the World Association for photobiomodulation Therapy (WALT) defined photoacupuncture as “photonic stimulation of acupuncture points and areas to initiate therapeutic effects similar to that of needle acupuncture and related therapies together with the benefits of PhotoBioModulation (PBM).”¹ This workshop will introduce participants to the mechanisms and benefits of acupuncture and PhotoBioModulation as excellent complementary approaches to manage orofacial pain and promote healing. As the development of more convenient, affordable, and user-friendly phototherapeutic devices has become available, access to this treatment modality has expanded to the point where photoacupuncture can now be considered at-home person-centered care (PCC).

This workshop will demonstrate the most common acupuncture points used in dentistry (approximately 20). A photoacupuncture technique will also be reviewed. By the end of this workshop, participants will have a practical technique that they can immediately utilize. Additionally, the presenters will discuss and demonstrate stress management techniques for dental professionals to use both at the office and in their personal life, including mindfulness meditation, breathing techniques, aromatherapy, botanicals, and adaptogens for wellness and sleep hygiene.

Example applications include: Temporomandibular joint (TMJ) management, surgical preconditioning, postoperative recovery and wound healing, tissue regeneration, gagging prevention, reducing chairside anxiety, reducing skeletomuscular discomfort (analgesics), etc.

¹Litscher G. Definition of laser acupuncture and all kinds of photo acupuncture. *Medicines (Basel)*. 2018 Oct 30;5(4):117. doi: 10.3390/medicines5040117.

NOTE: This workshop discusses investigational devices that have not yet received U.S. approval or clearance for the specified clinical indications or describes off-label uses.

Format: 1-hour group lecture, followed by a 2-hour hands-on workshop with Dr. Sun and Dr. Al Rasheed.

Educational Objectives:

- Specify acupuncture's role in pain management and beyond.
- Explain integrative treatment modalities of photoacupuncture.
- Review photoacupuncture mapping technique for immediate clinical application.

Saturday, April 22, 2023 | 2:15 PM – 5:30 pm

Let's Get Physical - Lasers, Adjunctive Therapies, & Modalities: A Hands-On Rotation Workshop

Lynn Atkinson, RDH | Torrance, California, USA

Audience: All Levels

In this workshop attendees will rotate to different educational stations to learn about different adjunctive therapies through an informative hands-on forum. Attendees will have the opportunity to ask specific questions and get more comfortable with products and therapies. Attendees will also be able to identify the products and therapies that fit into one's individualized practice. Adjunctive therapies include but are not limited to:

- Lasers (Ultradent, Biolase, DEKA) and Eyewear (Innovative Optics)
- Photobiomodulation
- Medicament Carriers (customized medicament trays)
- Dental Hygiene Protocols (Perio Protect, EMS Guided Biofilm Therapy)
- Diagnostic therapies (Florida Probe)
- Oral Health Care Products (StellaLife)

NOTE: This workshop discusses investigational devices that have not yet received U.S. approval or clearance for the specified clinical indications or describes off-label uses.

Educational Objectives:

- Compare different adjunctive therapies through an informative hands-on forum.
- Recognize the products and therapies that fit into your individualized practice.
- Review the techniques and advantages of various products and therapies.

Participating Vendors:

- Biolase
- DEKA Dental Lasers
- EMS
- Florida Probe
- Innovative Optics
- Perio Protect
- StellaLife
- Ultradent Products

Rana Al Rasheed, BDS

Los Angeles, California, USA



Dr. Rana Al Rasheed graduated from the University of Jordan School of Dentistry in 1997. She is a Continuing Lecturer at the University of California – Los Angeles (UCLA) and Leader in the Interdisciplinary Dentistry Department at the UCLA Faculty Group Practice. She completed a Fellowship in Integrative Medicine at the prestigious Andrew Weil Center for Integrative Medicine at the University of Arizona. Dr. Al Rasheed trained in acupuncture for Sleep and Orofacial Pain at UCLA as well as in auricular acupuncture at the renowned Helms Medical Institute in Berkeley, California. Her holistic treatment approach integrates breathing techniques, mindfulness meditation, and acupuncture/acupressure points for self-care.

Disclosure: Dr. Al-Rasheed has reported no conflict of interest.

Contact: Dr. Al Rasheed by e-mail at ralrasheed1@g.ucla.edu.

Walid Altayeb, DDS, MSc, PhD

Doha, Qatar



Dr. Altayeb received his dental degree from the Faculty of Dentistry, Damascus University, in 1998 and completed his Master of Science in Periodontics in 2004 and Doctorate of Philosophy in Periodontics in 2007. He has achieved Advanced Proficiency certificates from the Academy of Laser Dentistry in 980-nm diode and Er:YAG lasers. Dr. Altayeb has Mastership in the Academy of Laser Dentistry, is a member of the ALD Board of Directors and Speakers Bureau, Chair of the ALD International Relations Committee, Founder and Chair of the ALD Gulf Laser Chapter, and received The John G. Sulewski Distinguished Service Award from ALD in 2019. He is the founder of the laser section in the British Academy of Implant and Restorative Dentistry (BAIRD) and the founder of the Professional Diploma in Advanced Laser Dentistry of BAIRD. Dr. Altayeb conducts “Pink Aesthetics & Laser Dentistry” courses with the British Academy of Implant and Restorative Dentistry in Qatar, Bahrain, Saudi Arabia, Oman, and United Arab Emirates (UAE). He has participated in many conferences in the Middle East, Europe, and USA as a speaker in the fields of periodontal medicine and laser dentistry. He served as the General Secretary of the iLED 2018 and 2019 Conferences and is a Lecturer for the Catholic University of the Sacred Heart Rome, Italy. He is working in private practice as a periodontist and implantologist in the Tamim Dental Polyclinic, Doha, Qatar, Dr. Imran Aestheticare Center, Dubai, UAE, and the Masters Dental and Aesthetic Center, Abu Dhabi, UAE.

Disclosure: Dr. Altayeb has no proprietary, financial, or personal interest of any nature in any product, service and/or company that will be discussed or considered during the program.

Contact: Dr. Altayeb by e-mail at draltayeb@hotmail.com.

Praveen R. Arany, BDS, MDS, MMSc, PhD

University at Buffalo, Buffalo, New York, USA



Dr. Arany trained as a dentist, oral pathologist, and biomedical engineer. He served as an Assistant Clinical Investigator at National Institute of Dental and Craniofacial Research, National Institutes of Health (NIDCR/NIH), Bethesda, Maryland, from 2012 to 2015. He is an Associate Professor at University at Buffalo, New York. He has over 125 scientific publications and received numerous awards, such as the Horace Furomoto and Wound Healing Society Young Investigator awards. He has been invited to speak in various national and international forums, reviews for more than 75 scientific journals, serves on nine journal editorial boards, including associate editor for four of them, and reviews grants for national and international funding agencies. He is the immediate past-President of the World & North American Associations for Photobiomodulation Therapy and chair of photobiomodulation (PBM) groups in SPIE and Optica (OSA). He has 6 patents, more than 125 scientific publications with over 7300 citations, and an h-index of 35. His work has been featured in many mainstream media highlights in over 70 countries.

Disclosure: Dr. Arany consults for Vielight, Seaborough, and Shepherd University. His lab has received equipment as unrestricted gifts from Biolase, Summas, Weber Medical, Irradia, Kerber Applied Research. He is the cofounder of OptiMed Technology and Conjunction LLC.

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Lynn Atkinson, RDH

Torrance, California, USA



Lynn Atkinson has been a Registered Dental Hygienist for 32 years. She graduated from Cypress College, California, with a degree in Dental Hygiene and was fortunate enough to be a part of several dental teams that incorporated state-of-the-art technology. Since obtaining the Associate Fellowship Certification through the World Clinical Laser Institute (WCLI) in 1996, Lynn has been actively applying the use of dental lasers in hygiene on a daily basis. She went on to achieve the Standard Proficiency Certification through the Academy of Laser Dentistry (ALD) in 2013 and the Advanced Proficiency Certification Parts I and II in 2019. Lynn is currently practicing clinical dental hygiene as Clinical Hygiene Director in Mission Viejo, California, four days a week. She speaks to and trains doctors, hygienists, and team members on the use of lasers along with strategies to incorporate dental lasers into their protocol. She is an active member of the Academy of Laser Dentistry, the American Dental Hygienists' Association, the California Dental Hygienists' Association, the Orange County Dental Hygienists' Society, The Western Society of Periodontology, and is a Hygiene Faculty member and Speaker for Biolase. Lynn serves on the ALD Board of Directors as Auxiliary Chair, is a member of the ALD Speakers Bureau, and is involved in the Certification Testing Task Force. She is married with four children and lives in Torrance, California, where she was born and raised.

Disclosure: Lynn Atkinson is a speaker and educator for Biolase.

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Juliana A. Barros, DDS, MS

Houston, Texas, USA



Dr. Barros is an Associate Professor in the Department of Restorative Dentistry and Prosthodontics at the University of Texas School of Dentistry at Houston. She serves as the Director for the Laser Dentistry Clinic, Operative Dentistry I and II. Dr. Barros earned her DDS from the University of Uberaba, Brazil, in 1995. She has postgraduate training in restorative dentistry from the University of Michigan School of Dentistry. In addition, she has earned a master's degree in laser dentistry from the Nuclear and Energy Research Institute and University of São Paulo, Brazil. Dr. Barros lectures and conducts research in the fields of restorative dentistry, biomaterials, and hard / soft tissue laser applications. Recognizing opportunities to advance knowledge and treatment in laser dentistry, she developed the laser dentistry curriculum at UTHealth School of Dentistry at Houston and is the acting director of the laser clinic. She is a member of several organizations including the Academy of Laser Dentistry (ALD), Academy of Operative Dentistry (AOD), International Association for Dental Research (IADR), American Dental Education Association (ADEA), and Consortium of Operative Dentistry Educators. In 2019, Dr. Barros was the recipient of the Academy of Laser Dentistry's T.H. Maiman Award for Excellence in Dental Laser Research.

Disclosure: Dr. Barros has only academic interests in further studying and understanding lasers and their interactions with biological tissues.

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Anthony Bolamperti, DDS

Omaha, Nebraska, USA



Dr. Bolamperti graduated from Creighton University Dental School in 1995 and began practicing with his father in 1995. He opened his own private practice in 1997, Optimal Health Dentistry, and rebranded his practice in 2016 to Omaha Laser Dentistry. He also enjoys being a part-time faculty member at Creighton University School of Dentistry. Dr. Bolamperti has over 20 years of laser dentistry experience, specializing in airway-centered dentistry, laser frenectomies from newborns to adults, gingival contouring, oral surgeries, bone grafts, dental implants, cosmetic and anesthetic-free dentistry. He is a Convergent Dental Trainer and speaker, has published articles in *Dental Products Report*, and is an Ambassador for Dr. Zaghi's The Breathe Institute and The Breathe Baby Institute.

Disclosure: Dr. Bolamperti lectures for Convergent Dental and receives a modest honorarium for these events.

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Laura Braswell, DDS

Atlanta, Georgia, USA



Dr. Braswell is a practicing periodontist who has been working with lasers since before they were on the market. She is a Charter member of the Academy of Laser Dentistry (ALD), has attained ALD Mastership, and serves on the ALD Board of Directors as well as several committees. Dr. Braswell is on the faculty of Dental College of Georgia, Emory University, and Georgia State University, and serves on the FDA Committee for Lasers and Devices.

Disclosure: Dr. Braswell has reported no conflict of interest.

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Mel A. Burchman, DDS, MALD

Langhorne, Pennsylvania, USA



Dr. Burchman has maintained a general dentistry practice in Bucks County, Pennsylvania, since 1976. He began using lasers in 1998 and now has eight lasers in his practice. In 2001 he received Advanced Proficiency in Nd:YAG laser from the Academy of Laser Dentistry (ALD). In November 2003 he received The Science Behind the Clinic of Laser Dentistry award for his presentation on Nd:YAG and Diode Laser Therapy in the Medically Compromised Patient. Also in 2003 his office was featured in *Men's Health* magazine in the article "The Drill Is Gone." In 2005 Dr. Burchman received Certified Laser Educator status from ALD and received his Certificate of Mastership in 2008. He has been published twice in the ALD journal *Wavelengths* on the subject of lasers in the care of medically compromised patients and in 2012 received ALD's Leon Goldman Award for Clinical Excellence for this work. He has presented on this topic more than 70 times both nationally and internationally and it is his passion. Dr. Burchman has served the ALD as a mentor, examiner, and chairman of many committees, a member of the ALD Board of Directors, Executive Committee, Secretary, Treasurer, and Vice President. He was the keynote speaker at the 2014 OCMIS Laser Conference and the 2019 ALD-BAIRD laser conference in Qatar. In 2015 he was the General and Scientific Chairman of the ALD conference and in 2016 the Co-Program Chair of the American Society of Laser Medicine and Surgery (ASLMS) conference. In 2016 he received his Recognized Course Provider certification from ALD and was the Chairman of its 2019 conference. In 2018 he had the honor to testify before a Congressional Subcommittee on using dental lasers to help control opioid abuse. He was the President of the Academy of Laser Dentistry in 2020 and also helped found GMA Laser Education.

Disclosure: Dr. Burchman is co-founder of GMA Laser Education. Previously he has lectured for Sirona Dental, Benco Dental, and Henry Schein Dental, Advanced Dental Hygiene, Kerber USA, and MedX Laser Health Systems and has received honoraria for his efforts.

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James S. Carreiro, DMD

Largo, Florida, USA



Dr. Carreiro is a general dentist and has been utilizing laser technology since 2007. He incorporates laser technology in almost every aspect of patient care including photobiomodulation. Dr. Carreiro is a graduate of Fordham University and earned his dental degree from Boston University School of Dental Medicine. In addition, he holds Mastership Certification and Advanced Proficiency Certification from the Academy of Laser Dentistry, and is a member of the Academy's Speakers Bureau. Dr. Carreiro is also a member of the ALD Executive Board and has also earned Fellowship Certification with the World Clinical Laser Institute.

Disclosure: Dr. Carreiro has a financial interest in Perioscience Corporation and occasionally teaches for Biolase and receives compensation.

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James Carroll, AMInstP, FRSM

Chesham, Buckinghamshire, United Kingdom



James Carroll has 35 years photobiomodulation experience (since 1987). He is the founder and CEO of THOR Photomedicine and co-founder and investor, LumiThera, Inc. He has co-authored 24 photobiomodulation (PBM) papers and contributed chapters to 5 PBM books. Mr. Carroll is a recognized authority on PBM dose, dose-rate effects, and the measurement and reporting of parameters. His appointments include: Biomedical Optics Society, conference co-chair (2009 to date); Fellow of The Royal Society of Medicine (2009 to date); Editorial Board of *Photomedicine and Laser Surgery* (2008-2013); World Association for Photobiomodulation Therapy (WALT), industry representative (2000-2004) and industry representative board member (2018 to date); North American Association for Laser Therapy, board member (2002-2006). Notable speaking events include: U.S. Congressional briefing on PBM as a solution for the opioid crisis; White House briefing on PBM as a solution for the opioid crisis; United Nations Global Health Impact Forum on PBM for Dry Age-Related Macular Degeneration (AMD). He received the World Association for Photobiomodulation Therapy Presidential Commendation for service and leadership in the field of Photobiomodulation in 2020, and ALD's T.H. Maiman Award for excellence in dental laser research in 2021.

Disclosure: Mr. Carroll receives a salary and expenses from and is a shareholder of THOR Photomedicine. He is also a co-founder of and investor in LumiThera, Inc.

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Nick Clausen, MBA

West Des Moines, Iowa, USA



Mr. Clausen is the founder and owner of Dental Laser Coaching (DLC) which offers clinical and product laser consultation services to various organizations and dentists around the world. DLC is a Nevada State Board of Dental Examiners-approved laser proficiency course provider. Nick is also the Director of Laser Mastery for Fortune Management, the largest dental consulting/coaching organization in North America. His previous dental experience includes Vice President (VP) of Sales & Marketing for PIPStek, LLC, Intellectual Property owner of Photon-Induced Photoacoustic Streaming (PIPS) in which he played a key role in the sale to Sonendo. Prior to this Nick was VP of Sales and Marketing for Implant Logistics and helped create The Dominican Training Institute, which provides a hands-on surgical implant training program. His first involvement with dentistry was with HOYA ConBio where he progressed from Midwest Sales Representative to the Director of Sales & Marketing for the North American Dental Division. Nick received his Standard and Advanced Proficiency in Laser Dentistry from the Academy of Laser Dentistry. He has attended training programs and consulted with numerous dental training organizations and dental manufacturers: A.T. Still University, Biolase, Bioresearch, Convergent Dental, Dentsply Sirona, Fotona, Las Vegas Institute, Quanta Aesthetic Lasers USA, Sonendo, THOR, Ultradent, and UNLV Dental School. Nick has his Bachelor of Business Administration (B.B.A.) degree from Iowa State University. He earned an MBA from Creighton University. Nick has certifications in both Project Management & eCommerce from Georgia Tech University, and has completed The Program on Negotiation from Harvard Law School.

Disclosure: Mr. Clausen has received honorarium for lecturing, consulting and/or training from Biolase, Convergent Dental, Dentsply Sirona, LVI, and owns stock in Sonendo.

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Yolanda Cox, RDH, MEd

Blacklick, Ohio, USA



Yolanda graduated from the University of Cincinnati in dental hygiene over 20 years ago. After 3 years working in private practice, she joined the Heartland Dental family. She has a strong passion for continuing education, which has contributed to her professional growth. While at Heartland, Yolanda has worked in several capacities as a dental hygienist, lead hygiene mentor, and clinical educator covering topics such as preventatives, periodontal therapy, ergonomics, leadership, medical emergency, sedation monitoring, and laser dentistry. Her current role is Professional Learning and Development Manager of Doctor Education which involves leading a team of training developers in the design and execution of blended learning programs for 2000+ supported doctors and their teams within the Heartland Dental organization covering the various areas of dentistry. Yolanda lives in Blacklick, Ohio. She enjoys traveling, watching sports, serving her community, and empty-nesting with her husband Richard.

Disclosure: Yolanda Cox is Professional Learning and Development Manager of Doctor Education for Heartland Dental.

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Arun A. Darbar, BDS, DGD(UK)

Leighton Buzzard, Bedfordshire, United Kingdom



Dr. Darbar is a multi-award-winning laser and esthetic dentist. At the forefront of laser dentistry, he has been dedicated to providing cutting-edge dentistry to his patients for over 35 years. He is an accredited member of the British Academy of Cosmetic Dentistry (BACD) and is the credentialing committee chair, a board member, and an examiner. Dr. Darbar continuously runs courses and trains dentists worldwide. He is also an invited speaker and published author on lasers in dentistry worldwide. He has been instrumental in pioneering the use of Low Level Laser Therapy (LLLT), more recently termed Photobiomodulation Therapy (PBM and PBMT), and using high-power surgical lasers with diffusers. He continues to be involved in research and development, designing and beta-testing of numerous laser units. As a leading member of the Academy of Laser Dentistry (ALD), he holds Master, Certified Educator, and Certification Course Trainer status. Professionally he has served as a past president of the ALD and has previously served as the International Relations Committee Chair. In 2018 he served as Chair of ALD General and Scientific Sessions Committee, co-chaired the same for the 2018 Implants-Laser-Esthetics-Digital (iLED) conference in Dubai, and was the chair for the 2021 ALD conference. He is faculty for ALD international fellowship programs. In 2017 Dr. Darbar was the recipient of the prestigious John G. Sulewski Distinguished Service Award. He is a founding member of the International Academy of Innovative Dentistry (IAID).

Disclosure: Dr. Darbar is co-founder of GMA Laser Education. He is not sponsored for this presentation but does provide education for various organizations and receives modest expenses and remuneration.

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Nicole Fortune, MBA, RDH

Richmond, Vermont, USA



Nicole Fortune is a highly regarded dental hygienist, educator, and professional speaker who has gained industry-wide recognition for her advanced knowledge of periodontics and peri-implantitis. As a practicing hygienist, Nicole believes the best patient care happens when combining her dental hygiene knowledge with the latest technology. She holds many certifications including CO₂, diode and Nd:YAG laser certification. She is currently the only dental professional in Vermont who is certified in Periodontal Endoscopy, a minimally invasive treatment for periodontal disease. Nicole's dedication to patient care excellence, industry knowledge, and technological acumen earned her the title of Vermont's Dental Hygienist of the Year for 2017.

Disclosure: Nicole lectures and trains clinicians for EMS on Guided Biofilm Therapy. She also lectures and trains clinicians for OraVu on periodontal endoscopy. She receives an honorarium for these activities.

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John J. Graeber, DMD, MAGD, MALD, FICD

Morristown, New Jersey, USA



Dr. Graeber has maintained a conservative general practice for nearly 50 years. He was an early adopter of laser technology and has lectured internationally for more than 25 years on lasers and conservative dentistry. He is a co-founder and past president of the Academy of Laser Dentistry and is a recipient of ALD's Leon Goldman Award for Clinical Excellence. He is the co-author and editor of the textbook *Microinvasive Dentistry: Clinical Strategies and Tools*.

Disclosure: Dr. Graeber lectures for CAO Lasers for which he receives an honorarium.

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Jeffrey Harrison, DDS

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Dr. Harrison is the CIO of APZME, the first dental support organization (DSO) for Dental Sleep Medicine, and also the National Clinical Director for Sleep Group Solutions. He graduated from the University of Missouri-Kansas City School of Dentistry in 1994, completed a General Practice Residency at St John's Mercy Medical Center in his hometown of St. Louis, Missouri, and has achieved Mastership Certification in laser-assisted dentistry. Dr. Harrison serves the dental profession as a key opinion leader, educator, professional speaker, consultant, and clinician. Early in his professional career, he began recognizing his patients were displaying signs and symptoms unexplained by what he was taught in dental school and residency. This challenge led him to seek continuing education programs attempting to uncover the "root cause" of what seemed to be affecting a large number of his patients. This journey landed him in the exciting and growing field of dental sleep medicine. Dr. Harrison believes the time is now for dentistry to progress beyond fixing teeth and gums and become a real player on their patient's healthcare team, thereby improving and prolonging the lives of their patients and their dentistry.

Disclosure: Dr. Harrison is employed by Sleep Group Solutions and will be demonstrating their proprietary technology for assessing airway stability and collapse.

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Robin Horton, BDS

Harpenden, Hertfordshire, United Kingdom (UK)



Dr. Horton is a practice owner of a busy 7-surgery Private Practice in the UK. It is a laser practice, and all of its clinicians are laser trained. He is a general dental practitioner with a surgical focus and a background in Oral Surgery. He has been using lasers for many years and placing implants for more than 15 years. Dr. Horton is a mentor and lecturer for Nobel Biocare and a Fellow of the Academy of Laser Dentistry (ALD). He also lectures for Delta, a laser education group in the UK. Dr. Horton is part of a European study group on navigated implant surgery and treasurer of a think tank called Pandora Dental in the UK.

Disclosure: Dr. Horton occasionally lectures for Nobel Biocare and gets paid a modest honorarium for these activities.

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Edward R. Kusek, DDS

Sioux Falls, South Dakota, USA



Dr. Kusek is a past-president of the Academy of Laser Dentistry (ALD), President-Elect of the American Academy of Implant Dentistry, and an Adjunct Professor at the University of Nebraska Dental School and University of South Dakota Dental Hygiene program. He has published numerous articles in peer-reviewed journals on dental implants and the use of dental lasers. Dr. Kusek is a Diplomate of the American Board of Implant Dentistry, an Honored Fellow of American Academy of Implant Dentistry, and has achieved Mastership in the Academy of General Dentistry (AGD) and Academy of Laser Dentistry. He received a Lifelong Learning and Service Recognition award from AGD in 2012, 2017 and 2022.

Disclosure: Dr. Kusek lectures for and receives honoraria from Ultradent.

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Ann Liebert, PhD, BAppl Sci, Grad. Dip. Manip. Ther.

Sydney, Australia



Ann is a clinician/scientist at the Sydney Adventist Hospital where she is Coordinator of Photomolecular Research. She is an Adjunct Senior Lecturer in the Faculty of Medicine and Health Sciences, Sydney University, a Visiting Professor at The University at Buffalo, and on the Scientific Board of Shepherd University (Shepherdstown, West Virginia, USA). Her research is focused on the molecular mechanisms of photobiomodulation and implementing several clinical trials to assess the effectiveness of photobiomodulation to treat symptoms of Parkinson's and Alzheimer's diseases, autism spectrum disorder, and other neurological and microbiome-related diseases. As Chief Coordinating Investigator, she has completed 3 clinical trials for treatment of Parkinson's disease, including a randomized controlled trial (RCT) at the Sydney Adventist Hospital. An additional RCT is underway in Toronto, Canada. Results have been encouraging with 4 manuscripts published to date and another 3 planned from the completed studies. Ann has also completed a small clinical trial using photobiomodulation for the treatment of oral mucositis. Laboratory investigations include experiments into the mechanisms of photobiomodulation at the cell membrane using erythrocytes, the effect of photobiomodulation on the microbiome in a mouse model of Parkinson's disease, and photobiomodulation for diabetic kidney disease in *in vitro* and in a mouse model. She has spoken at numerous international conferences on the topics of translational research and the proteomics of PBM. She currently is treasurer of the Australian Medical Photobiomodulation Association (AMPA), a member of the Global Research Steering Committee for the North American Association for Photobiomodulation Therapy (NAALT), on the scientific advisory board of the World Association for Photobiomodulation Therapy (WALT), a session chair at SPIE Photonics West 2023 (Photobiomodulation Session), and on the Scientific Board of the Photobiomodulation Research Foundation at Shepherd University, West Virginia.

Disclosure: Ann is a cofounder, shareholder, and former director of SYMBYX Pty Ltd. The research described here was funded by the San Foundation and private donors. The PhD student was supported by a government Australian Postgraduate Research (APR) internship with Symbyx.

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Bebe Lin, DAOM

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Dr. Chianni Lin is a highly respected Eastern Integrative Medicine provider in Santa Monica and Los Angeles, California, holding a Doctorate of Acupuncture and Oriental Medicine (DAOM) degree from Emperor's College (Santa Monica, California). At her Center for Acupuncture & Integrative Medicine, she integrates acupuncture, Chinese herbal medicine, nutrition and movement (yoga, qigong) to improve the health of her patients. Dr. Lin uses this integrated approach to address a range of health issues including women's health, anti-aging and preventative health, chronic pain, stress, anxiety, depression, and more.

Disclosure: Dr. Bebe Lin has reported no conflict of interest.

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Samuel Low, DDS, MS, MEd

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Dr. Low is Professor Emeritus, University of Florida, College of Dentistry, and an Advisor Member of the Pankey Institute. He is a past president of the American Academy of Periodontology and is the current president of the Academy of Laser Dentistry. Dr. Low provides periodontists, dentists, and dental hygienists with the tools for successfully managing the periodontal patient. He was selected "Dentist of the Year" by the Florida Dental Association, Distinguished Alumnus by the University of Texas Dental School, and recipient of the Gordon Christensen Lecturer Recognition Award. He is a Past President of the Florida Dental Association and past American Dental Association (ADA) Trustee.

Disclosure: Dr. Low has relationships including compensation and equipment with the following: Biolase, Florida Probe, Perioscience, and EMS.

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Scott Parker, DDS, AASDA

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Dr. Parker graduated from Loma Linda University School of Dentistry in 1996. Since his beginning in teaching in 1998, Dr. Parker has educated thousands of clinicians across the United States and internationally. In that time, he has advocated for increased standards in esthetic and restorative procedures, minimally invasive techniques, and dental technology. Recognized by his peers for his conservative yet progressive approach, as well as his ability to connect on a personal level, Dr. Parker's realistic manner of teaching has made him a highly regarded lecturing clinician and consultant. In addition to speaking and training, he has written or is listed on more than 30 patents or pending patents and has published articles in a variety of respected dental journals. In 2011, after 16 years of dental practice experience, Dr. Parker transitioned from clinical dentistry into leadership roles in the dental industry and most recently serves as the Vice President of Clinical Affairs for DEKA Dental Lasers, where he oversees hands-on in-office clinical laser training and clinical application. Dr. Parker has a deep, hands-on understanding of dental esthetics, lasers, implants, functional reconstruction, and dental technologies. His professional affiliations include or have included The Academy of Laser Dentistry, Academy of Richard V. Tucker Study Clubs, American Dental Association, American Society for Dental Aesthetics (accredited), and American Academy of Cosmetic Dentistry.

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Shalizeh “Shelly” A. Patel, DDS, MEd

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Dr. Patel is the interim associate dean for patient care and an associate professor in the Department of Restorative Dentistry and Prosthodontics at the University of Texas School of Dentistry at Houston (UTSD). She is the Director of Clinical Simulation for the School of Dentistry and she designed the didactic, laboratory, and clinic-based teaching curriculum in laser education at UTSD. In 2019, she received the American Dental Education Association (ADEA)/Colgate-Palmolive Co. Excellence in Teaching Award and Academy of Laser Dentistry T.H. Maiman Award for Excellence in Dental Laser Research.

Disclosure: Dr. Patel has only academic interests in further studying and understanding lasers and their interactions with biological tissues.

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Marina Polonsky, DDS, MSc

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Dr. Polonsky graduated from the University of Toronto, Canada, in 1999, with the Dean's Gold Medal of Achievement and maintains a private general practice in Ottawa, Canada, with focus on multi-disciplinary treatment utilizing lasers of different wavelengths. She holds a Mastership with the World Clinical Laser Institute (WCLI), and Master of Science in Lasers in Dentistry degree from RWTH University in Aachen, Germany. She is a recipient of Mastership Certificate from ALD (Academy of Laser Dentistry) and is a recognized member of the ALD Speaker Bureau. Dr. Polonsky is a founder of the Canadian Dental Laser Institute (CDLI), an organization dedicated to providing quality continuing education in Laser Dentistry in Canada. CDLI is the only ALD-affiliated international study club in Canada. Dr. Polonsky is actively involved in the educational aspect of dental laser technology by teaching laser safety courses, diode and erbium certification courses, as well as lecturing world-wide on laser-assisted dentistry. She is a key opinion leader (KOL) and a faculty member for Biolase Technologies Inc. and has been involved in the development of the all-tissue laser system, Waterlase Express. Dr. Polonsky is the author of multiple scientific papers, reviews and case reports on the uses of lasers in dentistry. She is the chief editor for *JLAD* (Journal of Laser-Assisted Dentistry) and a peer-reviewer for *LIDS* (*Lasers in Dental Science*) by Springer. She is the Chief Editor of Laser Dentistry issue and co-editor of General Dentistry March 2022 issue of the *Oral Health* journal and is a member of the Executive Committee of the *Oral Health* journal.

Disclosure: Dr. Polonsky is a trainer for WCLI International, and a key opinion leader for Biolase for Waterlase Plus and Epic X lasers.

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Meghan Radcliff, RDH

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In clinical practice, Meghan Radcliff has treated hundreds of patients with the help of Perio Tray therapy. Her clinical experience fuels her work as a team trainer with Perio Protect. She is most passionate about empowering hygienists to think outside the box by using and understanding the need for adjunctive therapies in and out of the hygiene operatory.

Disclosure: Meghan Radcliff is a full-time employee at Perio Protect where she works as a team trainer. Prior to Perio Protect, she treated patients with Perio Tray™ therapy in private and corporate clinical practice as a registered dental hygienist.

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John Sulewski, MA

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Mr. Sulewski serves as the Director of Education and Training for The Institute for Advanced Dental Technologies, and the Director of Education for Millennium Dental Technologies. He is a member of the Academy of Laser Dentistry Certification, Communications, Conference, Education, Ethics, Laser Safety, Science and Research, and Scientific Sessions Committees. Having been involved in the laser dentistry field since 1989, Mr. Sulewski is a past recipient of the Academy's Distinguished Service Award, has obtained Advanced Proficiency in Nd:YAG and diode lasers as a Laser Safety Officer, and is a University of California Certified Dental Laser Educator. He is a member of the Academy of Laser Dentistry and the American Society for Laser Medicine and Surgery.

Disclosure: Mr. Sulewski is Director of Education and Training for the Institute for Advanced Dental Technologies. He also serves as Director of Education for Millennium Dental Technologies with significant compensation. He has served as a paid consultant for American Dental Technologies; Continuum Biomedical; Convergent Dental; Incisive, LLC; and Millennium Dental Technologies.

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Grace Sun, DDS, FAACD, MALD, MAGD, MICOI

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Dr. Sun has been practicing advanced laser and cosmetic dentistry in her Los Angeles practice since 1983. She is an Accredited Fellow with the American Academy of Cosmetic Dentistry (FAACD), a Master of the Academy of General Dentistry (MAGD), a Master of the International Congress of Oral Implantologists (MICOI), and a Master and Educator of the Academy of Laser Dentistry (MALD), where she serves as secretary on the ALD's Board of Directors. She was the 2020 recipient of the ALD Leon Goldman Award for Clinical Excellence. Dr. Sun is the founder of Oral IQ, LLC.

Disclosure: Dr. Sun is founder of Oral IQ LLC, an oral healthcare company and therapeutic light manufacturer.

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Ridham Vrailal-Varsani, BDS

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Dr. Varsani is a dentist and an epidemiologist-to-be. He grew up in India and earned his BDS from Saurashtra University, India, and is currently pursuing an MS degree with a concentration in epidemiology from the University at Buffalo, New York. His research interests include dental caries, diabetes, temporomandibular joint disorders, oral health disparities, oral esthetics, and the translation of research into practice. Currently, he is working on a couple of scientific projects that revolve around dentistry and epidemiology. During his undergraduate program, Dr. Varsani attended multiple national and state conferences and delivered multiple paper and poster presentations. He also conducted research on mental foramen at the same time. His current research is focused on developing novel applications for lasers in dentistry. He strives to work on three synergistic fronts by bringing epidemiological discoveries to lab research and translating these into clinical practice.

Disclosure: The Arany lab at the University at Buffalo has received unrestricted gifts of laser devices from several manufacturers. Dr. Praveen Arany also consults for several commercial, academic, and government entities.

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Christopher Walinski, DDS

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Dr. Walinski is an Associate Professor in the Department of Dental Medicine at the Touro College of Dental Medicine (TCDM) in Hawthorne, New York. He serves as the Director of Laser Dentistry and is the Laser Safety Officer for TCDM. In addition to his clinical duties, he also lectures and leads lab exercises in the preclinical simulation lab in fixed prosthodontics and esthetic dentistry. Dr. Walinski has served as the Executive Director for the World Clinical Laser Institute since 2010 and is a Fellow of the International College of Dentists and the American Society for Lasers in Medicine and Surgery. Dr. Walinski is a past-president and Diplomate of the World Congress of Minimally Invasive Dentistry.

Disclosure: Dr. Walinski is a consultant for Biolase and receives an honorarium when speaking on their behalf.

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Angie Wallace, RDH

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Angie Wallace is a laser educator for the Academy of Laser Dentistry (ALD), and has achieved her Mastership with ALD. She is currently the chair of ALD's Education Committee and serves on several other committees. Angie was the 2014 recipient of the John G. Sulewski Distinguished Service Award from the ALD. She has been recognized as an international speaker and provides in-office laser certification courses.

Disclosure: Ms. Wallace provides laser training and educational consulting through her company Laser Hygiene, LLC. She reports modest earnings from tuition for courses, and receives support with lasers for her educational programs from several laser companies. She also speaks for King Dental and Biolase and receives honoraria.

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www.laserdentistry.org



ALD is devoted to clinical education, research, and the development of standards and guidelines for the safe and effective use of laser technology. Through our educational offerings and credentialing program, we provide valuable expertise in the field of lasers in dentistry – expertise that ultimately benefits the patients that clinicians serve. ALD and its members are improving patient health and well-being every day.

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Our Journal System handles all journal subscriptions on a calendar-year basis, also known as volume year, which means that members are purchasing access to the journal for 12 months, January – December. August 1st is the date renewal season begins and the rates for the next year are applied. All ALD members who Subscribe or Renew after August 1, 2022 will receive online access to Volume 41 through December 2023, as well as the journal archive back to Volume 1, No. 1. In other words, all orders placed after August 1, 2022 are set up as subscriptions for the following year, with bonus online access beginning when the order is processed.

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The PBM Foundation is a 501(c)(3) nonprofit organization, established in 2018, that supports research on, and adoption of, Photobiomodulation (PBM) Therapy worldwide and develops and implements PBM Therapy curriculum at leading universities. Currently the Foundation is raising awareness for light technology, treating patients with COVID-19, cancer, chronic pain, opioid use disorder, and neurological conditions. The PBM Foundation has 3 pillars: Advocacy, Research and Education.

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Shenzhen Soga Technology Co., Ltd.

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ALD is celebrating its 30th year with a new Silent Auction ONLINE!

In years past, the annual conference Silent Auction has provided a fun and worthwhile way to donate to the Dr. Eugene Seidner Student Scholarship Fund. This Fund is intended to promote the advancement of dental laser education and clinical research. The program encourages undergraduate and graduate dental students in the different dental disciplines to deepen their knowledge of the use of lasers in dentistry. It provides financial assistance enabling successful applicants to present their work at the Academy's annual conference and by doing so allows participation in the educational lectures and workshops aimed to advance the study of lasers and their correct and safe use in dentistry.

Exhibitors and Membership have donated items for auction this year and in the spirit of celebrating together, the Silent Auction promises to be more fun and more available to everyone with the new online format.

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