



2022 APAC SYMPOSIUM

OCTOBER 1-2, 2022 ✦ HILTON TOKYO BAY ✦ TOKYO, JAPAN



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THE WORLD CLINICAL LASER INSTITUTE

The World Clinical Laser Institute is a close-knit network of thousands of dental professionals who share a passion for improving the patient experience and building the best possible practice. We welcome you to this exciting symposium event and are excited to share our unique blend of education, fellowship and fun while learning about the latest trends in laser dentistry.



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HILTON TOKYO BAY

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DR. DAVID MINJOON KIM ✦ USA

Dr. David Kim received his dental degree (D.D.S.) from the University of Maryland Dental School, and completed his periodontology training and Doctor of Medical Science (D.M.Sc.) in oral biology from the Harvard School of Dental Medicine. Currently, as an Associate Professor at the Harvard School of Dental Medicine, he is also the Director of the Postgraduate Program in Periodontology and the Continuing Education at the Harvard School of Dental Medicine.

Dr. Kim's clinical and research interests have been on the use of innovative concepts, technologies and biomaterials to enhance intraoral soft and hard tissue formation, especially by incorporating the tissue engineering concept to repair and regenerate soft and hard tissue volume for patients requiring dental implants to replace missing teeth. He has conducted several research projects utilizing laser in treating periodontal diseases as well as treating peri-implantitis and they have been published in peer review journals.

Dr. Kim is a past recipient of the Joseph L. Henry Award recognizing excellence in research and clinical training from Harvard. In addition, he received Balint Orban Research Award, Award for Outstanding Teaching and Mentoring in Periodontics, and Teaching Fellowship from the American Academy of Periodontology. He is a diplomat of the American Board of Periodontology and maintains a clinical practice in Boston, Massachusetts, USA.

Predictable Clinical Outcomes with Laser Dentistry

Predicting outcomes of care is important as patients and clinicians often have high standards for their general oral health. Thus, establishing a standard patient treatment protocol that includes the proper diagnosis, risk management, treatment options, and maintenance protocols is very important to deliver a consistent successful case experience. Documented treatment outcomes in the literature when dental laser has been used to treat periodontitis and peri-implantitis are growing, and it is important to discern one or two case reports from randomized controlled clinical trials or time-tested treatment outcomes. This presentation will try to explain the predictability of what dental laser is capable to deliver when treating patients with periodontitis and peri-implantitis.



DR. JERRY C. LIN ✦ TAIWAN

Dr. Lin received his certificate in periodontology and Doctor of Medical Science in Oral Biology from the Harvard School of Dental Medicine. Dr. Lin teaches as a lecturer at the Harvard School of Dental Medicine and as an assistant professor at the Taipei Medical University. Dr. Lin has his own private practice in Taipei.

Advanced Applications of Waterlase in Aesthetic Implant Dentistry & Peri-Implant Complications

The key steps of treating peri-implantitis is to remove the granulation completely and to decontaminate the infected implant surface. The Er,Cr:YSGG dental laser has its advantages of non-touching blasting effects and focal spot laser beams, making it easier to debride the peri-implant defects leading to more predictable outcomes for peri-implant bone regeneration.

A novel de-epithelization technique with the aid of Er,Cr:YSGG dental laser was innovated, which facilitate an intraoral way to visualize and control the process. The de-epithelialized autogeneous gingival grafts can be successfully used for treating gingival recession via root coverage procedures, for achieving soft tissue augmentation around implants and obtaining keratinized tissue with better color match. The laser-assisted de-epithelialized AGG technique has been proved to be a reliable approach to provide dense connective tissue grafts for post-ridge augmentation soft tissue management in order to achieve better esthetic outcomes.

The objective of the presentation is to describe the applications of Er,Cr:YSGG dental laser in advanced implant dentistry.



DR. GABRIELE SCHINDLER-HULTZSCH ✦ GERMANY

Gabriele Schindler-Hultzsch DDS MSc is a graduate of Dental School (Staatsexamen), Ludwigs-Maximilians-University (LMU), Munich, Germany. She completed post-graduate study in pediatric dentistry at Philipps-University Marburg and Justus-Liebig-University (JLU) Giessen, Germany. Dr. Schindler-Hultzsch lectures in the Master of Science postgraduate study at Philipps-University Marburg, Germany and RWTH Aachen University, Germany, is a board member of the German Society of Laser Dentistry (DGL), an adjunct faculty member Aachen Dental Laser Center (AALZ) at RWTH Aachen University, Germany. She also lectures nationally and internationally in laser-assisted dentistry and pediatric dentistry. She is the Head of the interdisciplinary quality circle for pediatric dentistry at the hospital Klinikum Dritter Orden, Munich, Germany, the Delegated head of the division Aichach – Friedberg of the Dental Association of the Swabian district (ZBV Schwaben) and teaching in oral health and nutrition at nurseries, primary and secondary schools for the Bavarian Association of Dental Health (LAGZ), as well as lecturing at the Swiss Dental Hygiene Academy (SDA), Munich, Germany.

Laser-assisted Pediatric Oral Surgery Combined with Digital Volume Tomography – a Milestone for Laserkids™

Oral surgery in children often needs to be done under general anesthesia dependent on the age, compliance, medical condition of the child, kind and size of treatment and time needed for the surgical procedure. Considering oral surgery in adults – digital workflow based on 3-D imaging, diagnostic, scanning and planning has found its way into implantology and constitutes an essential part for a precise, predictable surgical procedure.

The new 3-D Laserkids™ Concept is an atraumatic approach of in-office pediatric oral surgery using the technique of 3-D diagnostic in combination with minimally invasive surgical laser treatment which is a big step forward in facing difficult cases in pediatric dentistry. The lecture will present different pediatric patients diagnosed and planned with the help of digital volume tomography (Orthophos SL 3D, Dentsply Sirona). Indications range from supernumerary incisors and premolars, retained teeth and mesiodens, multiple odontomas and tooth anomaly. Treatment was done in children aged between 5.5 and 12 years under local anesthesia with the YSGG laser with 2.25 – 2.75W, 60 µs, 50 Hz, 20% air, 40% water. All pediatric patients could be treated properly, safely, fast, without pain, good behavioral outcome and long-term results.

Considering the impact of surgical procedures and general anesthesia on pediatric patients and parents, the new 3-D Laserkids™ Concept with the combination of high-resolution 3D-diagnostic, digital planning followed by minimally invasive laser-assisted surgery is a milestone in pediatric oral surgery and for all Laserkids™.



DR. IBRAHIM SAMIR ✦ EGYPT

Dr. Ibrahim received his bachelor's degree of Oral and dental medicine (B.D.S) from Misr International University in Cairo – Egypt. He accomplished his Mastership of Laser Therapy in Dentistry program in Aachen Dental Laser Center (AALZ), RWTH Aachen University – Germany in 2016. Also successfully certified as a laser safety officer from (AALZ) in 2016. He became a fellow of World Academy for Laser Education in Dentistry (WALED) in 2016 and a member of International Society for Laser Dentistry (ISLD) organization since 2019.

Dr. Ibrahim successfully inaugurated the dental laser center of DR. Nour dental clinics in Cairo, Egypt and he is the director of this dental laser center since 2017. He has been practicing laser dentistry since 2017 and specialized in dental esthetical treatments utilizing laser technology.

Dr. Ibrahim initiated a laser dentistry continuing educational program in Dr. Nour Academy in 2020, training 30 candidates yearly. He shares knowledge in laser science as a speaker with colleagues on a yearly basis in the ISLD congress.

How Er,Cr:YSGG Laser Debonds Veneers – Unveiling the Secret

Veneers became a prosthetic solution to enhance smile. And by rising this treatment option, the demand of replacing veneers also raised. During veneers removal, preserving the underlying enamel integrity is very crucial. Conventionally veneers were removed by different mechanical techniques. But those techniques could easily jeopardize the underlying enamel integrity, and cause patient discomfort.

Here comes Er,Cr:YSGG laser to solve this dilemma by its ability to debond ceramic veneers safely through resin cement ablation. The laser mechanism of action in veneers debonding will be explained in detail. And the different techniques of veneers debonding will be proposed. Also, cases presentation will be showed, to demonstrate the debonding technique utilized in debonding of 3000 veneers safely and conservatively. Furthermore, veneers debonding by laser could offer the intact retrieval of veneers for repair, then the ability of recementing them again successfully.



DR. MASAHIKO KANENARI ✦ JAPAN

Dr. Masahiko Kanenari received his dental degree (D.D.S.) from the Kyushu Dental University, Japan and completed his PhD and from Nihon University School of Dentistry at Matsudo, Japan. Currently, as a Vice President at Osseointegration Study Club of Japan and a Vice President at Japan United Colleagues Study Club, he is also the Instructor at the Institute for Predictable Osseointegration Implantology and the Diplomate at Japanese Society of Oral Implantology.

Dr. Kanenari's clinical and research have been done at his two dental clinics in Yamaguchi and Fukuoka city by utilizing practical concepts and new technologies in order to introduce clinical application of the Implant, preservation of alveolar bone volume after augmentation, and practical application of filling in molars in periodontics. He has conducted several research themes by laser irradiation in the enhancement of microtubule-associated protein-1 alpha gene expression in osteoblasts and reduction of interleukin-1 β expression in rheumatoid arthritis as laser therapy by his 16 years laser experience. Recently Dr. Kanenari has been making researches in Orthodontics dental implant utilizing CBCT and they have been published in journals.

Active Utilization of Waterlase in Dental Practice

Waterlase® has become an indispensable instrument in my dental practice in these days. It has various uses, and I would like to introduce some of them in this lecture.

Dental treatment is diverse including wide areas such as restorative dentistry, periodontics, oral-surgery, dental implant, orthodontics, and prosthodontics. Not all patients can be anesthetized by liquid anesthetic injection due to allergies and/or dental phobias. Therefore, Waterlase is the reliable device for me to provide the effective hypesthesia for such patients. I will present the cases of prosthodontics, minor surgery and Implant treated with the numbness effect by Waterlase.

Periodontal regenerative therapy has made great progress in recent years. We have gotten that benefit even in Japan, however periodontal disease has been cited as a major cause of tooth loss. In this lecture, I will present my cases of periodontal disease treated with the minimally invasive (MI)surgical techniques such as MIST, M-MIST, EPPT, NIPSA, and M-VISTA. The effectiveness of "Waterlase" in periodontal surgery and the indications for each procedure will also be presented. In addition, a case of regenerative therapy for peri-implantitis will also be presented. I hope this lecture will contribute to the proliferation of therapies by "Waterlase" in Japan.



DR. MARJAN JONES ★ AUSTRALIA

Dr. Marjan Jones is owner and chief dental surgeon at Enhance Dentistry in Brisbane Australia. She holds honours qualification in Dentistry, as well as a Bachelor of Science (physiology) and is a qualified International Board-Certified Lactation Consultant (IBCLC). As a clinician who has used lasers for more than 25 years, her experience with various lasers has enabled a discernment about their use and application for best patient outcomes. Using the YSGG for functional release of restricted oral tissue has led to focusing her practice to establishing optimum oral function across the lifespan. This includes soft tissue surgery, oral myofunctional therapy and myofunctional orthodontics. She treats patients as young as a few days old till those of elderly age. Her protocol pioneered a multi-disciplinary approach to surgical release of oral ties in Australia. She has co-founded the Tongue Tie Institute – an educational endeavour dedicated to clinical protocols for management of soft tissue dysfunction resulting from oral restrictions through a multi-disciplinary approach.

She co-founded International Consortium of Ankylofrenula professionals (ICAP) - a multidisciplinary organisation dedicated to enhancing and sharing knowledge and research on oral ties. She served on the board as the inaugural chairperson for two years and continues to support the organisation. Prior to that she served on the International Affiliation of Tongue Tie Professionals (IATP) for two years. She is a current reviewer of manuscripts for the International Journal of Human Lactation.

The Tongue as the Master Sculptor of the Face – YSGG and Frenum Freedom

Wolff's law dictates that bones will adapt to the degree of mechanical loading, such that an increase in loading will cause the architecture of the internal, spongy bone to strengthen, followed by the strengthening of the cortical layer. When applied to the orofacial region, it means that beyond genetics, our muscle function influences our occlusion and dental relationship as well as facial features. These in turn affect several key functions such as nourishment, breathing, speech and posture. The tongue is the most influential of these muscles and hence a restricted lingual frenum will have negative repercussion. Thus, the tongue is like a master sculptor.

A frenectomy – the release of tight restricted frena – has become an area of keen interest to dental surgeons. Experience has shown that beyond a team approach, a thorough (functional) release is key to optimum outcomes. Research and experience have shown that the YSGG facilitates a through release without collateral damage that can occur through use of other tools. Not only does YSGG provide improved capacity for tongue function and enable the tongue to positively affect orofacial development, but the patient experience and healing path is also superior.



DR. JUSTIN KOLNICK ✦ USA

Dr. Kolnick received his B.D.S. cum laude from the University of the Witwatersrand, in Johannesburg, South Africa. He was the first dental school graduate to be awarded the prestigious University Scholarship for Overseas Postgraduate Study. In 1982, he completed his postdoctoral endodontic training at Columbia University School of Dental and Oral Surgery in the City of New York.

For the past 35 years, Dr. Kolnick has been in private practice limited to endodontics in Westchester County, NY. His practice, Advanced Endodontics of Westchester, includes a partner and three associates and is dedicated to fostering excellence in endodontics through education and the incorporation of the latest technology. In 2011, Dr. Kolnick created The Endodontic Microsurgery Group in a unique, state-of-the-art facility dedicated entirely to endodontic microsurgery and sedation. Dr. Kolnick has been committed to endodontic education, first as an Associate Clinical Professor in Endodontics at Columbia University and then as an Attending at Westchester Medical Center and an Associate Clinical Professor in Endodontics at New York Medical College. Although he no longer holds these positions, he continues to lecture extensively on a local, national and international level and has published several articles on endodontics.

Retro-dontics: A Paradigm Shift in Endodontic Treatment Planning and Performance

Although the introduction of CBCT has provided a more detailed insight into the anatomy of root canal systems, many of these complexities remain hidden and buried. Reaching these inaccessible and unfound areas presents a common and daunting task for the dentist. The inability to clean and disinfect these areas could have a significant impact on endodontic procedures as well as severely compromise outcomes. Traditional methods, using sonic and ultrasonic devices, have had limited effectiveness in cleaning and disinfecting canal ramifications and complexities, and have increased the incidence of iatrogenic perforations as well as compromised the structural integrity of the tooth.

Introduction of laser-assisted technology using the Er,Cr:YSGG laser has not only raised the ability to achieve deep, three-dimensional cleaning and disinfection, but has afforded the dentist an effective way to reach inaccessible and unfound root canal anatomy. This has impacted our ability to predict and achieve endodontic success and has changed the way endodontics is planned, presented, and performed. This lecture will focus on these applications and will highlight the concept of Retro-dontics - "the management of unfound root canal anatomy via a communication with another canal".



DR. PREMILA SUGANTHAN ✦ INDIA

Dr. Premila Suganthan received her Bachelor's in Dental Surgery from RMDC&H Annamalai University in 1994 and completed her Masters in Laser Dentistry from University of Genova, Italy in 2014. She now has an established clinical practice "KP Tooth Care Pvt Ltd" where she provides a holistic solution to meet all the dental concerns of her patients. Her mission is to build a long lasting relationship with her patients, exceeding all of their expectations by providing high-tech facilities in the field of dentistry. Dr. Premila Suganthan diligently participates in research on the use of dental lasers and encourages the budding dentists in incorporating the safe use of Dental lasers in day-to-day practice. She is an active speaker for the IALDD Certificate Program held at Manipal University and DY Patil University, Mumbai. She has several ongoing researches and has published multiple papers related to the use of Hard Tissue Lasers.

Dr. Premila Suganthan being the "First Indian" to be awarded the Mastership in Laser Dentistry from World Clinical Laser Institute (WCLI) was also recognized and honored with the "Best Dentist" award in 2012 from Dr MGR Medical University by the Governor of Tamil Nadu. She is a stalwart in the dental laser field and has bagged multiple awards, recognitions and has marked her excellence by lecturing at the National Level in the field of Hard & Soft Tissue Lasers. She has also been one of the guest speakers in international conferences held in Europe, Middle East and South East Asia thereby bringing Clinical Uses of Hard and Soft Tissue Lasers into limelight.

Yours Conservatively – Use of Er,Cr:YSGG Laser in Restorative Dentistry: A Clinical Approach

Laser technology may be used as a complementary technique as well as an alternative to traditional tools, adding many therapeutic advantages in Restorative Dentistry. Er,Cr:YSGG applications in Restorative Dentistry have specific indications and contraindications for use in patients' treatment. A working knowledge of Er,Cr:YSGG Laser basic, applied and clinical science is essential.

Er,Cr:YSGG all tissue Laser applications in Restorative procedures have been of considerable scientific interest throughout the recent years. Er,Cr:YSGG Lasers are now widely used in minimally invasive treatment in our routine dental practice which includes Dental Cavity Preparation, Caries Prevention, Gingival Re-contouring, Crown Lengthening and Remineralization of White Spot Lesions. The use of Er,Cr:YSGG technology is an overall boon to the patient's dental experience towards minimal pain dentistry, and therefore reduces the anxiety of the patient. Application of Er,Cr:YSGG lasers in restorative dentistry along with its safety protocol will be discussed within the scope of this presentation with clinical cases for the better understanding.



DR. MARINA POLONSKY ✦ CANADA

Dr. Marina 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.

Dr. Polonsky holds a Mastership with WCLI (World Clinical Laser Institute), Master of Science in Lasers in Dentistry degree from RWTH University in Aachen, Germany. She is a recipient of Mastership Certificate with 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 Clinical Mentor for BIOLASE, Inc. and has been involved in the development of the newest 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. Since 2017, Dr. Polonsky has become the Chief Editor of Laser Dentistry issue of the Oral Health Journal and is a member of the Executive Committee of Oral Health.

Around the World of Laser Dentistry in 60 Minutes

Incorporation of laser technology into private practice is one of the biggest challenges new doctors face after the excitement of purchasing new technology settles and questions about the return on investment become more pressing. The lack of exposure to lasers, how they work and how to work with them in undergraduate training makes thinking and working like a laser dentist difficult.

This lecture will take you on a tour of everyday applications of laser technology, both Er,Cr:YSGG and diode 940nm lasers, give you ideas of how to increase your scope of practice by starting to do more laser procedures or incorporating a laser step into more conventional non-laser procedures. From restorative applications to hygiene to surgery to esthetics, any procedure performed daily in general practice can use an improvement possible by incorporating laser technology into your practice.

So let us take this trip around the world of laser dentistry together!

SATURDAY, OCTOBER 1, 2022 ✦ SOARA I

7:30 - 8:30	REGISTRATION
8:30 to 8:40	Dr. Marina Polonsky (Canada) <i>Opening Event & Welcome Address</i>
8:40 to 10:10	Dr. David Minjoon Kim (USA) <i>Predictable Clinical Outcomes with Laser Dentistry</i>
10:10 TO 10:30	COFFEE BREAK
10:30 to 11:50	Dr. Marjan Jones (Australia) <i>The Tongue as the Master Sculptor of the Face – YSGG and Frenum Freedom</i>
11:50 to 13:10	Dr. Ibrahim Samir (Egypt) <i>How Er,Cr:YSGG Laser Debond Veneers – Unveiling the Secret</i>
13:10 TO 14:20	LUNCH
14:20 to 15:50	Dr. Justin Kolnick (USA) <i>Retro-dontics: A Paradigm Shift in Endodontic Treatment Planning and Performance</i>
15:50 TO 16:10	COFFEE BREAK
16:10 to 17:10	Dr. Masahiko Kanenari (Japan) <i>Active Utilization of Waterlase in Dental Practice</i>
17:10 to 18:00	Laser Physics Review for Associate Fellowship Examination (Optional)
18:00 TO 19:00	COCKTAIL HOUR (SOARA BALLROOM FOYER)
19:00 Onwards	Gala Dinner – Soara II & III

SUNDAY, OCTOBER 2, 2022 ✦ SOARA I

7:30 to 8:30	Associate Fellowship Examination (Optional)
8:30 to 8:40	Dr. Marina Polonsky (Canada) <i>Second Day Opening Remarks</i>
8:40 to 10:10	Dr. Jerry C. Lin (Taiwan) <i>Advanced Applications of Waterlase in Aesthetic Implant Dentistry & Peri-implant Complications</i>
10:10 TO 10:30	COFFEE BREAK
10:30 to 11:50	Dr. Premila Suganthan (India) <i>Yours Conservatively: Use of Er,Cr:YSGG Laser in Restorative Dentistry – A Clinical Approach</i>
11:50 TO 13:10	LUNCH
13:10 to 14:10	Panel Discussion (Dr. Kim, Dr. Kolnick & Dr. Lin) – Moderator: Dr. Jones <i>Versatility of Dental Lasers to Ensure Better Patient Care</i>
14:10 to 15:30	Dr. Gabriele Schindler-Hultzsich (Germany) <i>Laser-assisted Pediatric Oral Surgery Combined with Digital Volume Tomography - a Milestone for Laserkids™</i>
15:30 TO 15:50	BREAK
15:50 to 16:50	Dr. Marina Polonsky (Canada) <i>Around the World of Laser Dentistry in 60 minutes</i>
16:50 to 17:00	Closing Remarks



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