



WESTERN SOCIETY OF PERIODONTOLOGY
Presents...

THE COLLABORATIVE EVENT OF THE YEAR!

WSP 69th Annual

SCIENTIFIC SESSION 2021

REJUVENATION... NEW FRONTIERS IN DENTISTRY

&

Western Region

DENTAL HYGIENE SYMPOSIUM

SEPTEMBER 10-12, 2021



WORLD CLASS EVENT...WORLD CLASS SPEAKERS!

WSP 69th ANNUAL SCIENTIFIC SESSION 2021 SPEAKERS

Hom Lay Wang, Ziv Mazor, Joseph Kan, Jill Bashutski, Rick Miron, Bruno Azevedo, John Russo, Rebekka Hueber, Marc Nevins, Sundeep Rawal, Michael Sonick, Faraj Edher, Ed Lowe, Leonard Tau, Ian McNickle, Art McOmber, Samuel Low, Alexandre-Amir Aalam

WESTERN REGION DENTAL HYGIENE SYMPOSIUM SPEAKERS

Susan Wingrove, Larry Ambrose, Tricia Osuna, Sam Shamardi, Heather Rogers, Amber Auger, Claire Jeong, Kathy Bassett, Cindy Purdy, Janet Press, Traci Murray, Emmalee Bastarache



Venue Bellagio Resort • Las Vegas

PERIODONTISTS • GENERAL DENTISTS • PROSTHODONTISTS • HYGIENISTS

"69 YEARS OF EXCELLENCE IN CONTINUING EDUCATION"



THE WESTERN SOCIETY OF PERIODONTOLOGY

Welcome Letter

WELCOME TO THE WESTERN SOCIETY OF PERIODONTOLOGY / WESTERN REGION DENTAL HYGIENE SYMPOSIUM “Collaboration, Excellence, and Reconnecting”

Welcome to the 69th Annual Meeting of the Western Society of Periodontology (WSP) and Western Region Dental Hygiene Symposium (WRDHS) September 10-12, 2021. Join us for an in-person event and together we can move forward with a true interdisciplinary vision for our practices.

WSP is an interdisciplinary organization with periodontists, restorative dentists, hygienists, and auxiliary team members for genuine collaboration.

Our restorative colleagues will find many restorative lectures and hands-on workshops to update them on such topics as implant restorations, digital impressions, restorative materials, digital workflow, and minimally invasive restorations. A focus on collaboration with periodontal colleagues to save teeth but also being prepared to predictably replace teeth when needed will be highlighted. Additionally, the Academy of Microscope Enhanced Dentistry will be holding their Annual Session concurrently and all attendees can choose which lectures to attend.

Our periodontal colleagues will find current evidence-based information about new innovations and techniques in periodontal & implant therapy that can be applied to their practices. Lectures and hands-on workshops will showcase such topics as implant esthetics, digital workflow, peri-implantitis, bacterial culturing, PRF, and soft tissue management.

The WRDHS together with the Nevada Dental Hygiene Association is excited to bring a unique educational opportunity for dental hygienists and auxiliary staff with distinguished speakers. Tricia Osuna on new products, Susan Wingrove on implant maintenance, dentistry deafening with Dr. Sam Shamardi, local anesthesia with Kathy Bassett, periodontal disease with Amber Auger and a distinguished panel for a discussion on periodontal and peri-implant disease. Kandra Sellers for your administrative team on tips for medical billing. Hands-on opportunities that we have missed will be available in a safe environment. Exciting Student/ New RDH boot camp. Hygiene and Dental students join us and get your questions answered by a panel of experts lead by Claire Jeong.

The WSP and WRDHS are excited to bring it all together in an exciting Las Vegas atmosphere with dental hygienists, auxiliary colleagues, restorative dentists, periodontists, and other dental specialties!

We look forward to sharing this unique collaborative event at the Bellagio Hotel in sunny Las Vegas Nevada on September 10-12!

Warm regards,



Bobby Birdi, DMD, Dip. Perio,
Dip. Pros, MSc, FRCD(C), FACP, DABP



Susan Wingrove RDH, BS

Event Chairs 2021 WSP/WRDHS

THURSDAY EVENING:

SUPERCHARGE YOUR PRACTICE

BACK BY POPULAR DEMAND!



Ian McNickle
New Patient Growth thru Digital Marketing



Leonard Tau
*Raving Patients: Get Visible, Get Credible:
Get More New Patients*



Art McOmber
*Successful Business Structures: The Keys to
Protecting Your Assets, Estate, and Income*

These lectures will offer you insight into growing your practice and your income like no other event. We will offer appetizers and time with the speakers. This was last offered in 2020 and attendees have asked for this to be a staple for our Annual Session. All paid attendees receive free admittance to this event.

WSP 69th Annual Scientific Session 2021 Speakers



PROF. ZIV MAZOR

Prof. Ziv Mazor is one of Israel's leading periodontists. He graduated from the periodontal department at the Hadassah School for Dental Medicine in Jerusalem, where he served as a clinical instructor and lecturer for undergraduate and post-graduate dental students. Since 1993, Prof. Mazor has been engaged in clinical research in the field of Bone Augmentation and Sinus Floor Elevation. He is currently participating in the quest for improving and evaluating new grafting materials, using various growth factors as well as researching "osseodensification" - a paradigm shift in dental implantology. Prof. Mazor is a renowned author in dental implantology, and is known worldwide for his innovative approaches in cutting-edge procedures and technologies. He is a world leader in dental implantology, and has lectured extensively both nationally and internationally. This year was his 25th consecutive year speaking at the AAP. Prof. Mazor is part of the continuing education faculty at the New York University and an Associate Professor at Titu Maiorescu University in Bucharest, Romania. He conducts and moderates advanced international implantology courses and workshops. He is the past President of the Israeli Periodontal Society. Prof. Mazor maintains a private practice limited to periodontal and implant dentistry in Tel Aviv & Ra'anana, Israel.



DR. SUNDEEP RAWAL

Dr. Sundeep Rawal is Senior Vice President, Implant Support Services for Aspen Dental. He graduated from the University of Florida College of Dentistry, USA in 2006 and completed his training in Prosthodontics at the University of California San Francisco in 2009 where he was exposed to the most current technologies shaping dentistry. He has worked extensively to utilize CAD/CAM technologies within the scope of clinical dentistry and enhance his patients' restorative treatments. He has lectured across the USA as well as internationally with over 500+ engagements over the years, and published numerous papers in various dental journals and other publications. Dr. Sundeep Rawal is a past president of the Brevard County Dental Society, and of the Florida Prosthodontic Association as well as an officer for the Florida Academy of Cosmetic Dentistry, and the Dental Society of Greater Orlando. He was also an officer in the Central District Dental Association and delegate to the Florida Dental Association. He has held numerous positions with national organizations such as the American College of Prosthodontics. He is a co-founder of the Digital Dentistry Institute, a leading contemporary education entity with courses all over the world dedicated to innovations and technology in dentistry. After 10 years of successful Private Practice at Florida Prosthodontics where he established a multi-doctor, multi-location prosthodontic practice, he joined Aspen Dental in November of 2019. Education: Bachelor of Science in Microbiology and Cell Science with a minor in Business Administration, University of Florida; August 1999-May 2002. Doctorate of Dental Medicine, University of Florida; August 2002-May 2006. Certificate in Prosthodontics, University of California San Francisco; July 2006-June 2009. Sponsored by Nobel Biocare, 3shape, Henry Schien, Avadent, Ivoclar.



DR. MICHAEL SONIC

Dr. Michael Sonic is an internationally-known, highly-regarded authority in the field of dental implantology and periodontology. A full-time practicing periodontist in Fairfield, Connecticut, he is also a frequent guest lecturer in the international program at New York University School of Dentistry and the University of Connecticut School of Dental Medicine. He lectures worldwide on the subject of esthetic implants, periodontal plastic surgery, guided bone regeneration and comprehensive treatment planning. He is the co-editor of the multi-language textbook, Implant Site Development. He serves on the editorial boards of numerous journals including the Compendium of Continuing Education and the Journal of Cosmetic Dentistry, Inside Dentistry, Dentistry Today and also writes and publishes numerous papers in peer-reviewed journals. He is a Member of the Leading Dental Centers of the World and a Master in DSD (Digital Smile Design). He is a Diplomate American Board of Periodontology, Diplomate of the International Congress of Oral Implantology, and a Fellow of the International Team for Implantology.



DR. RICHARD MIRON

Dr. Richard Miron is currently lead educator and researcher at Advanced PRF Education and an Adjunct Visiting Faculty in the department of Periodontology in Bern, Switzerland where he completed his PhD studies since 2009. He has currently published over 200 peer-reviewed articles and lectures internationally on many topics relating to growth factors, bone biomaterials and guided bone regeneration. For the past 3 years, Dr. Miron has been recognized by Dentistry Today as being one of the top 100 CE providers in the country and the youngest to ever make the list. He is also the top ranked researcher on Platelet-Rich Fibrin therapy as per Expertscape independent review. He has recently been awarded many recent international prizes in dentistry and is widely considered as one of the top contributors to implant dentistry having won the ITI Andre Schroeder Prize, the IADR Young Investigator of the Year in the field of Implant Dentistry as well as the IADR Socransky Research award in the field of Periodontology (2020). He has written 5 textbooks widely distributed in regenerative dentistry including his best-seller in 2019 titled: "Next Generation Biomaterials for Bone and Periodontal Regeneration". Sponsored by Bio-PRF.



DR. REBEKKA HUEBER

Dr. Rebekka Hueber is the leader of the dental department and accredited specialist in biological dentistry at the Swiss Biohealth Clinic in Switzerland. She graduated from the Ludwig-Maximilians-University, Munich, Germany and completed the four-year and recognized specialization as a specialist dentist for oral surgery, biological dentistry and zirconia implant. Dr. Hueber is a well respected international lecturer, key opinion leader, and educator in the application of ceramic implants and biological dentistry and is an author of several articles and publications in recognized journals. Sponsored by SDS.



DR. FARAJ EDHER

Dr. Faraj Edher is a Prosthodontist focused on full mouth rehabilitations, aesthetic transformations and implant reconstructions using the most advanced digital technology. He is the Director of the Digital Dentistry Institute -- a global continuing education organization. In addition to practicing full time in Vancouver, Dr. Edher is a Clinical Assistant Professor and guest lecturer at the University of British Columbia and has published research and articles on topics such as dental implants and digital dentistry.



DR. MARC L. NEVINS

Dr. Nevins serves as the Editor-in-Chief of the International Journal of Periodontics and Restorative Dentistry. He is a Diplomate of the American Board of Periodontology and is a Fellow of the American Academy of Esthetic Dentistry. Dr. Nevins is in the private practice of Periodontics and Implant Dentistry in Boston, Massachusetts and is Assistant Clinical Professor of Oral Medicine, Infection and Immunity at the Harvard School of Dental Medicine. Dr. Nevins graduated from Tufts University School of Dental Medicine and he received his Certificate for Graduate Training in Periodontology and a Master of Medical Sciences in Oral Biology at Harvard School of Dental Medicine. Dr. Nevins has research interests in Clinical Applications of Tissue Engineering for Regenerative Periodontics and Implant Dentistry.



DR. JOHN RUSSO

Dr. John Russo is a graduate of The Ohio State University College of dentistry. He completed his periodontal training and earned a Master in Health Sciences degree from the Medical University of South Carolina. He is in private practice in Sarasota, FL and is a clinical assistant professor at the Medical University of South Carolina in the Division of Periodontics. He is in the twentieth consecutive year as course director for a hands-on cadaver bone and soft tissue grafting course held at the Medical University of South Carolina. He is a Past President of the Southern Academy of Periodontology and is serving his fifth year on the Board of Trustees for the American Academy of Periodontology.



DR. HOM-LAY WANG

Dr. Wang is a Professor and Director of Graduate Periodontics at the University of Michigan. He published 2 textbooks, 40 book chapters/invited reviews and more than 620 peer-reviewed scientific articles. Dr. Wang currently serves as a member of AAP Task Force for Future Science Strategy and is a Fellow, Secretary and Former Board for the AO. Dr. Wang is a Diplomate, Former Chair and Director of the American Board of Periodontology, a Fellow of American College of Dentists and a Former President of Midwest Society of Periodontology. He serves as an Associate Editor for JOMI, International Journal of Oral Implantology, Editorial Board member for the JP, JCP, COIR, JPRD and many others. He is the recipient of many awards and most recently ITI Andre Schroeder Research

Prize (2014), AO Osseointegration Foundation Clinical Research Recipient (2016), AAP Outstanding Educator Award (2017), AAP Distinguished Scientist Award (2017), ADEA William J. Gies Annual Periodontology Award (2018), University of Michigan Distinguished Faculty Research Mentoring Award (2019) and AAP Master Clinician Award (2019). Sponsored by Biohorizons.



DR. SAMUEL B. LOW

Samuel B. Low, D.D.S., M.S., M.Ed., Professor Emeritus, University of Florida, College of Dentistry; Associate faculty member of the Pankey Institute with 30 years of private practice experience in periodontics, lasers and implant placement. He is also a Diplomate of the American Board of Periodontology and past President of the American Academy of Periodontology. He is a current Board of Director 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 the Gordon Christensen Lecturer Recognition Award. He is a Past President of the Florida Dental Association and past ADA Trustee.



DR. BRUNO AZEVEDO

Bruno Azevedo, D.D.S., M.S., Dr. Bruno Azevedo - The Cone Beam Guy - is one of the most active speakers in North America regarding 3D imaging in Endodontics. He serves as the director of the Oral Radiology Clinic and 3D Printing Lab at the University of Louisville School of Dentistry in the Department of Diagnosis and Oral Health. Dr. Azevedo attended the University of Texas Health Science Center in San Antonio where he received both a certificate in Oral Maxillofacial Radiology and Masters in Dental Diagnostic Science in 2009. He is a Diplomate of the American Board of Oral and Maxillofacial Radiology. He also operates an intramural CBCT imaging facility at the University of Louisville and provides consulting services in Oral Maxillofacial Radiology and 3D printing.



DR. JILL BASHUTSK

Jill Bashutski is a periodontist who practices full time in Regina, SK, Canada. She obtained her dental degree from Western University in London, Ontario. She later obtained her Certificate in Periodontology, Master's of Science in Dentistry, and Lazzara Fellowship in Advanced Implant Therapy at the University of Michigan. She previously served as Acting Director of Graduate Periodontics and Director of Undergraduate Periodontics at the University of Michigan. She currently serves as a senior editorial review board member for Implant Dentistry and the Journal of Oral and Maxillofacial Research and has authored over 30 articles and 5 book chapters on periodontics and implant dentistry, including a first-authored paper in the prestigious New England Journal of Medicine. In 2015, she received the Junior Alumni of Distinction Award from Western University for her contributions to research and teaching. Sponsored by Straumann.



DR. JOSEPH KAN

Dr. Kan completed Prosthodontics and Implant Surgery from Loma Linda University School of Dentistry (LLUSD). He is currently a Professor at LLUSD and maintains a private practice limited to Prosthodontics and Implant Surgery. Dr. Kan is on the Editorial Board of the Practical Periodontics & Aesthetic Dentistry and the European Journal of Esthetic Dentistry. His honors include the Best Research Award from the Academy of Osseointegration in 1997, the Judson Hinckey Award from the Journal of Prosthetic Dentistry in 2003 and the Robert James Achievement Award for his contribution to Implant Dentistry in 2005. Besides lecturing nationally and internationally, he has published over 50 articles in reference journals and chapters in textbooks with emphasis on tissue management and anterior implant esthetics.



IAN MCNICKLE

Ian is the Co-Founder and CEO at WEO Media, an award winning "Best of Class" dental marketing firm. Under his leadership WEO Media has grown quickly to become one of the most widely respected dental marketing firms in North America, and has garnered an impressive list of industry endorsements and awards. Ian is a nationally recognized marketer, writer, and speaker. He has developed significant expertise in online marketing, website optimization & conversion, search engine optimization (SEO), pay-per-click marketing (PPC), social media, video marketing, online reputation management, marketing strategy, and related topics. In addition, he has developed a set of critical KPI's (key performance indicators) for measuring the effectiveness of any marketing program. Ian lectures all over North America at dental conferences, study clubs, dental societies, and conducts numerous seminars and webinars. His teaching style breaks down the complexities of dental marketing in an easy to understand approach that the non-marketer can comprehend and implement. He also writes articles for Dental Products Report and The Progressive Dentist on various aspects of digital marketing. Prior to co-founding WEO Media Ian worked in the high-tech industry for 10 years in various engineering and management positions at Siltronix and Xerox. He left high-tech in 2006, and founded a regional marketing consulting firm which he ran for several years before eventually co-founding WEO Media in 2009. Ian has a BS in Mechanical Engineering from Washington State University where he was also a graduate of the University Honors Program. In addition, he graduated Cum Laude with an MBA from the University of Washington. Ian is an avid endurance athlete having competed in Ironman triathlon, marathon, and ultramarathon events. His favorite activity is simply spending time with his wife Andrea, and three kids Evelyn, Morgan, and Brendan. Sponsored by WEO.



DR. LEONARD TAU

After purchasing his practice the Pennsylvania Center for Dental Excellence in Philadelphia in 2007, Dr. Leonard Tau solely used the power of the internet to help grow his new patient base and went against the traditional way of marketing one's dental office. He lectures nationally and internationally on internet marketing, social media and reputation marketing and its ability to make your dental office more visible and credible. He is also the General Manager of the Dental Division for Birdeye, a reputation marketing platform and founder of iSocial Digital, a consulting firm that helps dentists develop a comprehensive online marketing plan. His content rich, engaging seminars allow him to bring his first hand experiences to his audiences. Sponsored by Birdeye.



ART MCOMBER

A 14 year veteran of the FBI, Art McOmber successfully transitioned into the world of business, and has become a seasoned executive who specializes in helping people of all backgrounds achieve maximum health through great nutrition with his company Epic Life Inc. In 2013 Mr. McOmber began working with Legally Mine to promote asset protection and tax reduction to the masses. Mr. McOmber has conducted hundreds of seminars over the course of his career, and is responsible for helping numerous people protect their assets, and reduce their tax liabilities.



DR. ED LOWE

Dr. Ed Lowe is a 1986 graduate of the University of British Columbia and owns a private practice devoted to functional aesthetic dentistry in downtown Vancouver, BC. He is an accredited member of the American Academy of Cosmetic Dentistry and is the editor-in-chief of the Journal of Cosmetic Dentistry. Dr. Lowe has published over 70 articles and lectures internationally on comprehensive restorative & aesthetic dentistry.



ALEXANDRE-AMIR AALAM

Dr. Aalam graduated with a DDS degree from the University of Nice Sophia Antipolis, Nice (France). He, subsequently, specialized in Advanced Periodontics at the University of Southern California, Los Angeles (USA). Dr. Aalam is a Diplomate of the American Board of Periodontology and a Diplomate of the American Board of Oral Implantology. The French Society and the California Society of Periodontology awarded Dr. Aalam for his contribution to clinical research in the field of implant dentistry. Dr. Aalam is a Clinical Assistant Professor at the USC School of Dentistry in the department of Advanced Periodontics. In 2012, Dr. Aalam was appointed as the USC dental school representative on the Board of Governor. He maintains a private practice in Brentwood CA, limited to Periodontics and Reconstructive Implant Dentistry. Dr. Aalam lectures and publishes in the field of dental implant and site development procedures

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Ziv Mazor, DMD

ALTERNATIVES TO BONE GRAFTING with the Use of Narrow Diameter Implants and Osseodensification

Course Description:

The presentation will focus on the concept of using new innovative minimal invasive treatment approach as well as unconventional surgical manipulations dealing with the atrophic ridge. The new concept of "osseodensification" will be presented enabling the clinician to preserve existing bone and enhance the outcome through a minimal invasive approach. With over 2 decades of scientific evidence reporting uncompromising reliability, narrow diameter implants signify a major shift in treating a greater range of patients. They are particularly appealing to those patients who previously declined implant treatment due to constraints of anatomy, fear or cost. Dentists everywhere are pausing to take note. Narrow diameter implants show high survival rates and are used clinically for immediate loading of fixed prostheses as their implant design provides high primary stability. Histological evaluation demonstrates a high bone-to-implant-contact-percentage (BIC%), similar to the BIC of conventional diameter implants. These unique implants help to avoid grafting techniques and improve esthetics with documented long-term success. The system reviewed in this course offers a full range of screw retained prosthetic options for overdentures, to single tooth, to full mouth reconstruction.

Learning Objectives:

- Understand the anatomical limitations associated with atrophic ridges before dental implant placement.
- Learn how to utilize narrow diameter implants in challenging situations.
- Understand the advantages of Osseodensification in osteotomy preparations.

Sundee R. Rawal, DMD

Digitally Driven Dentistry - Utilizing Advancements in Science and Technology to Deliver Restorative Excellence

Course Description:

From treatment planning to design of definitive restorations, technology is changing the processes used to treat patients. Innovative softwares allow clinicians to use these newer technologies to make treatment protocols more efficient and less time consuming, especially from single tooth to complex full arch implant fixed therapies. Along with this shift in technology is the introduction of seamless end-to-end ecosystems which allows teams to work with digital workflows efficiently to deliver predictable outcomes, shorter treatment time, higher case acceptance, and immediate patient satisfaction. Technology enhances all phases of treatment from diagnostics to the provisional phase of therapy and coupled with definitive restorative innovations, these suites of state of the art concepts allow for the easiest way to deliver restorative excellence to our patients.

Learning Objectives:

- Understand the concepts of digital data acquisition technology
- Learn the potential synergies available when working within digital ecosystems
- Develop techniques for utilization of innovation in everyday clinical practice
- Gain knowledge on various applications of technology within a suite of software solutions

Michael Sonick, DMD

The Use of Bioactive Bone Grafts and Barriers in Periodontics and Implant Dentistry

Course Description:

Bone grafting can be confusing. A multiplicity of techniques exists to regenerate bone around teeth (GTR) and in preparation for successful dental implant therapy (GBR). Ideal bone regeneration and wound healing is dependent upon choosing the proper surgical technique and correct combination of bone graft material, growth factor and barrier membrane. A bone grafting algorithm that leads to consistent success will be discussed.

Learning Objectives:

- The types of bone grafts available
- The value of a barrier membrane and how to use it
- The use of growth factors in bone grafting success
- How to combine and time grafting to achieve predictable success around teeth and in preparation for dental implant therapy

Richard J. Miron, DDS, MSc, PhD

Understanding Platelet Rich Fibrin: From Biological Background to Clinical Indications

Course Description:

The use of platelet concentrates has had a long-history of use in various fields of medicine as an autologous source of growth factors fabricated utilizing centrifugation of blood under various conditions. While platelet rich plasma (PRP) was proposed as a first-generation platelet concentrate over 3 decades ago, over the past 10 years, platelet rich fibrin (PRF) has seen a steady increase in utilization for a variety of medical procedures due to its lack of anti-coagulation factors favoring fibrin clot formation and faster wound healing. More recently, the development of a liquid PRF provides a new formulation of liquid PRF without using anti-coagulation factors that may specifically be combined with currently available bone biomaterials favoring particle stability, angiogenesis and tissue integration. This talk aims to highlight the recent advancements made with respect to the newest formulations of platelet concentrates including recent developments in horizontal centrifugation and liquid concentrated-PRF to further speed wound healing and tissue regeneration for various clinical indications faced in routine daily dental practice.

Learning Objectives:

- Provide the biological background and scientific rationale for why platelet concentrates speed wound healing
- Introduce new protocols using horizontal centrifugation
- Provide clinical indications when, where and why to use PRF (membranes and liquid) in regenerative dentistry and facial esthetics

Rebekka Hueber, med. dent.

GAP - Guided Augmentation Procedures - Biological and Indication-Based Augmentation Techniques in Combination with Ceramic Implants

Course Description:

Everyday surgical practice repeatedly presents us with the challenge of selecting the best method for vertical and horizontal bone augmentation from the many existing techniques. The GAP - Guided Augmentation Procedures - represent a concept that is structured according to clearly defined protocols and based on indications for each situation and provides clear instructions for each situation according to the "paint-by-numbers" principle. Taking into account the biological laws of bone formation, procedures that are stressful for the patient are also reduced by combining them with all-ceramic immediate implant placement techniques. The efficient development of the techniques significantly reduces the time spent, material requirements and costs for the user.

Learning Objectives:

- Indication based biological augmentation techniques in conjunction with ceramic implants
- Different augmentation techniques performing an external sinuslift
- The perfect combination of platelet-rich-fibrin and bone graft according to the GUIDED AUGMENTATION PROCEDURES

Faraj Edher, DDS, MSc, Dip. Pros, FRCD(C)

Innovations and Digital Workflows in Modern Prosthodontics

Course Description:

Advancements in technology and materials have changed the world of prosthodontics. These changes apply to the simplest and most complex restorative cases. This presentation will give an overview of innovations and modern techniques that make prosthodontic reconstructions more predictable, efficient, and durable.

Learning Objectives:

- Overview on biomaterials for tooth-borne, implant, and removable restorations.
- Understanding how to utilize a digital workflow from treatment planning to final restorations.
- Introducing innovative ways to combine steps in the restorative workflow utilizing technology and modern materials.

Marc L. Nevins, DMD, MMSc

Periodontal Hard and Soft tissue Regenerative Therapy: Achieving Results for Maintenance and Longevity

Course Description:

Retention of the natural dentition, when feasible, remains an ideal goal in dentistry. Many treatment modalities in periodontics have demonstrated success in preserving teeth long-term when the disease is diagnosed and managed early. The focus will be on treatment decisions and evaluation of results and long-term management for advanced periodontal cases. The value of preserving the natural dentition specifically with teeth that exhibit advanced periodontitis will be presented. Complex lesions, such as those with furcation involvement, present one of the most challenging periodontal defects to treat. Comparative outcomes of regenerative techniques in furcation defects will be presented along with factors influencing long-term success. Regenerative therapeutic advances including regenerative techniques with biomaterials and laser therapy will be presented. Advanced soft tissue grafting will also be presented.

Learning Objectives:

- Understand the importance of making an accurate diagnosis
- Identify the indications and limitations of regenerative therapy
- Present technological advances including growth factors, lasers and advanced surgical techniques for soft tissue grafting

John Russo, DDS, MHS

Block Allografts an Alternative to Autogenous Grafting

Course Description:

Autogenous block bone has been the gold standard for ridge augmentation due to its ability to maintain space as well as provide growth factors. Limitations to autogenous block grafting include volume of bone available intra-orally, as well as the morbidities associated with a second surgery site to harvest the donor tissue. This lecture will discuss and compare intra-oral bone block grafting with block allografts using rhBMP2. Several cases will be presented.

Learning Objectives:

- Describe the advantages of block allografts compared to autogenous blocks.
- List the limitations of block allografts.
- Understand the importance of using a commercially available growth factor when performing a block allograft

Hom-Lay Wang, DDS, MSD, PhD

Unfolding Peri-Implantitis

Course Description:

Implant complications have become a major challenge for many dentists who placed implants. This lecture is designed to help dentists who placed or restored implants understand what's new in implant complications, how to avoid these problems and how to predictably manage this emerging concern. New definitions such as plaque induced peri-implantitis and non-plaque associated peri-implant diseases, predisposing and precipitating factors associated with peri-implant complications and treatment prognosis of peri-implant diseases will be presented. Recent research findings of how surface coating or the titanium particles influence the incidence of implant complications will be discussed. In addition, this lecture will provide the mechanisms (e.g., surgically triggered, prosthodontically triggered and biological induced implant complications) of how implant bone loss and implant failure occurred. Specifically, how to manage implant esthetic and biological complications using EP-DDS protocol will be

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demonstrated. Three decision trees (implant biological complication management, implant treatment based upon defect morphology and implant soft tissue recession classification and proposed management) will be proposed. The treatments for implant diseases/complications include: chemotherapeutic agents, lasers de-contamination, apically positioned flap with or without implantoplasty, implant surface detoxification, lasers, guided bone regeneration, soft tissue grafts, implant removal as well as re-implantation will be thoroughly discussed.

Learning Objectives

- Recognize predisposing and precipitating factors associated with peri-implant complications
- Learn how to prevent future implant complications
- Know how to select proper treatment for different implant complications
- Learn EP-DDS guided bone regeneration protocol to predictably regenerate peri-implantitis defects
- Familiarize yourself with dental lasers as well as other detoxifying agents

Samuel B. Low, DDS, MS, M.Ed

Lasers - Approaching a New Standard of Care in Managing Periodontitis and Peri Implant Disease.

Course Description:

A recent landmark study demonstrates validity in managing periodontitis with all-tissue-lasers including clinical success with positive patient related outcomes and a concomitant decrease in recession. Similar data shows how Erbium laser wavelengths have been incorporated into procedures for treating peri implant disease with no adverse thermal events as to the integrity of implant surfaces. Dentistry is evolving into a minimally invasive culture with attention to positive patient perceptions and comfort.

Learning Objectives:

- Develop an understanding of the Erbium wavelength as related to the effects on target tissue in both the periodontium and implants
- Review the rationale for managing periodontitis as related to laser therapy.
- Explore the effect of Erbium lasers on various titanium surfaces as part of a detoxification process in managing peri implantitis.
- Demonstrate how the integration-of a Er, Cr: YSGG laser into a practice of periodontics creates a positive niche for patient acceptance and value-added revenue stream

Jill Bashutski, DDS, MS, FRCD(C)

Guided Bone Regeneration for Implant Therapy: Materials, Methods, and Scientific Rationale

Course Description:

Sufficient quality and quantity of bone is necessary for dental implant success. In cases where the bone is inadequate, guided bone regeneration (BGR) using a combination of bone graft materials, membranes, and biological agents can be used to improve the site. With the increasing prevalence of peri-implantitis, guided bone regeneration principles are also being used to treat peri-implant disease. This lecture will review basic principles of guided bone regeneration, including an overview of techniques and materials for implant applications. Participants will leave with an understanding of the most current evidence-based treatment recommendations for guided bone regeneration to facilitate implant therapy. Emerging techniques and translational research to support new developments in the field will also be presented.

Learning Objectives:

- Describe the rationale for bone regeneration in implant site preparation and peri-implantitis applications
- Explain the different materials available to facilitate guided bone regeneration for implant therapy and the scientific rationale for their use
- Understand new developments and techniques in the field of guided bone regeneration.

Joseph Kan, DDS, MS

Anterior Immediate Tooth Replacement: Lessons Learned Over 24 Years

Course Description:

Anterior implant esthetics can often pose esthetic challenges. We will discuss protocols that have been used in order to obtain successful long-term outcomes during implant therapy in the anterior zone.

Learning Objectives:

- Prognostic variables for immediate tooth replacement
- Should Root shield be considered for immediate tooth replacement
- How important is buccal bone for immediate tooth replacement

Ian McNickle, MBA

New Patient Growth thru Digital Marketing

Course Description:

In this seminar we will explore the most important aspects of online marketing for dentists including website optimization, social media, online reviews / reputation management, SEO for Google rankings, PPC for new patient leads, and videos. Case studies will be used throughout the program to illustrate best practices. We will review how to track and measure results as well as how to determine Return on Investment.

Learning Objectives:

- Discuss recommended marketing services and budget for best results
- How to properly optimize a website to convert new patient leads
- SEO best practices to rank high on Google
- Review typical ROI (Return on Investment) for new patient generation

Leonard F. Tau, DMD, PC

Raving Patients: Get Visible, Get Credible : Get More New Patients

Course Description:

Word of mouth has always been the foundation for the acquisition of new patients by a dental practice but in our internet age, word of mouth is transformed because of reviews sites like Google, Yelp, and Facebook. Online reviews are now one of the biggest ranking factors in a local search. Being credible is only one piece of the puzzle though. Your practice also needs to be found online when people are searching for a dentist near them. Are you at the top of the Google Map Pack? If not, you are invisible and all of those great reviews are not doing you much good. In this seminar, Dr. Tau shares numerous tips and best practices to not only become credible but visible online. He will also discuss the system that has been tried and tested in his own office enabling him to take his practice to the next level simply by marketing his reputation.

Learning Objectives:

- Understand the importance of taking control of your online presence
- Learn software programs that help manage your reputation
- See why your practice may not be ranking as high as it could be
- Discuss ways in which patient reviews can manifest online
- Develop strategies for garnering positive patient reviews
- Review team training tips for garnering positive feedback

Art McOmber

Successful Business Structures: The Keys to Protecting Your Assets, Estate, and Income.

Course Description:

Learn how to protect your business and personal assets from litigation during this in-depth discussion on proper entity structuring, tax reduction and Medical License Protection. More and more lawsuits are exceeding the limits and caps of most insurance policies; it is more important than ever to use the proper legal structure to protect your Practice. Your Medical License is the most important asset you own, learn how to protect it forever. Invest in anything Tax-Free using The Investment Grade Insurance Contract, and ultimately gain the freedom to run your Practice without worrying about protecting your hard-earned income from legal predators at this session.

Learning Objectives:

At the end of this course, the attendee will have learned:

- How the financially independent like Warren Buffett set themselves apart using Tax Strategies.
- The proper legal structure for your business to maximize income tax reduction, The LLLP
- The importance of Using the IGIC to virtually Invest in anything Tax-Free.
- How to avoid probate and leave a tax-free estate
- How to eliminate losses from lawsuits not covered by insurance.
- How to protect your Dental License from reports to the NPDB and State Boards and ultimately stop sanctions on your Dental license.

Edward Lowe, DMD

Fine Tuning Your Esthetic Composite Restorations

Course Description:

With the advances in digital and ceramic technology, clinicians have come to share the responsibility of shade, material selection, and esthetic outcome with their dental ceramists when doing indirect restorations. This is not the case with direct composite restorations where the accountability for the final product rests solely in the hands of the clinician. There is an element of artistry combined with technique and an understanding of the science for consistent composite excellence. Regardless of your experience at composite artistry, this program will enhance your skills and enrich your knowledge by providing you with a system for achieving success in your day to day restorative routine.

This presentation will focus on the step by step development of three restorations:

- Anterior Class IV composite
- Direct anterior composite veneer
- Posterior Class II composite

Learning Objectives:

- Understand how to layer composite material using dentin, enamel, and transparent shades to handcraft lifelike restorations
- Master using a PVS matrix to develop the lingual anatomy of your anterior composite restorations
- Create exquisite posterior restorations using matrix systems and incremental cusp buildup that require minimal finishing and occlusal adjustment

Alexandre-Amir Aalam, DDS, FICD

Zygomatic And Pterygoid Dental Implants

Course Description:

The increasing number of poorly placed dental implants and related complications are contributing to the increase of completely edentulous patients in our society. Zygomatic and Pterygoid dental implants are often used as rescue implants or as the last treatment option available for those with severely atrophic maxillary jaws and challenging patients.

When indicated and executed properly they will provide the patient with sufficient basal anchorage to support an immediately loaded restoration, reduce the anterior posterior spread and reduce the distal cantilever.

Learning Objectives:

The purpose of this presentation is to:

- Discuss the advantages and indications for the Zygomatic and Pterygoid treatment concept.
- Learn about the treatment flow chart and classification.
- Discuss the importance of proper soft tissue manipulation to avoid complications.
- Understand the importance of a sound digital work flow to improve the maintenance of the surgical integration of these implants.

WSP Hands-On Workshops

Richard J. Miron, DDS, MSc, PhD

HANDS-ON WORKSHOP: New Trends in PRF Therapy

Course Description:

This hands-on course will cover all the new advancements made with respect to the newest formulations of platelet concentrates. These will cover how to make custom-shaped PRF grafts, how to better concentrate liquid-PRF and will provide a better understanding for optimization of the protocols utilized in every day dental practice. Thereafter, the Bio-Heat technology will be presented. This will cover the heating steps necessary to extend the working properties of PRF from a fast-resorbing 2-3 week membrane towards a membrane that lasts 4-6 months. Various protocols will be demonstrated whereby clinicians will learn how to make an extended-PRF membrane that lasts 4-6 months, as well as how to make a novel sticky bone that contains an outer e-PRF membrane that may be utilized for ridge augmentation procedures.

Learning Objectives:

- Optimization of protocols for any centrifugation device
- Update on Bio-Heat technology and the ability to extend the working properties of PRF from 2-3 weeks to 4-6 months
- Improve cell and growth factor release using concentrated-PRF (C-PRF) protocols when compared to traditional injectable-PRF (i-PRF) on any centrifugation device
- Launch of the Bio-Cool technology
- Importance of PRF tubes for the fabrication of PRF
- Coupon code for Free access to an online 8CE program at www.prf-edu.com

Hom-Lay Wang, DDS, MSD, PhD

HANDS-ON WORKSHOP: Management of Implant

Complications via EP-DDS Treatment Protocol

Course Description:

Implant complications have become a major challenge for many dentists who placed implants. This hands-on exercise is designed to train participants in familiarizing the newly developed "EP-DDS protocol" for the management of peri-implant defects.

Learning Objectives:

- Know how to perform EP-DDS protocol for regenerating peri-implant defects.
- Learn how to perform implantoplasty and guided bone regeneration
- Familiarize yourself with tools for disinfected contaminated implant surface

Samuel B. Low, DDS, MS, M.Ed

CORPORATE SESSION - Sponsored by Biolase

HANDS-ON WORKSHOP: Utilize Today's Dental Lasers in

Managing Periodontal/Implant Disease

Course Description:

Give your practice a boost by harnessing laser technology with a positive result that manages effectively day to day periodontal soft tissue patient conditions. We provide the practitioner with how to chose the right laser and apply simple techniques that result in precision, controlled bleeding, accelerated healing, reduced post-operative issues, shorter procedure time, and a more relaxed experience for the patient. Procedures include non-surgical (Laser bacterial reduction and curettage) surgical periodontics, frenectomy, gingivectomy, implant uncovering, implantitis, are presented considering coding and patient acceptance. You experience direct hands on activity with various lasers on a variety of models including the hog jaw.

Learning Objectives:

- Understand indications for using laser in crown lengthening and pre-orthodontic procedures including esthetics
- Consider case reports demonstrating success along with clear contraindications.
- Develop techniques for incorporating laser into a dental practice considering patient acceptance, third party coding
- Differentiate laser technologies for periodontal indications (surgical and non-surgical)
- Develop post-operative evaluation protocols assessing wound healing

Bruno Azevedo, DDS, MS

LECTURE AND HANDS-ON WORKSHOP : Advanced 3D Imaging-

Full Day Course

Course Description:

CBCT has significantly influenced how clinicians diagnose, treatment plan and manage cases in modern endodontic practice. This case-based presentation will highlight the principles, advantages and clinical applications of CBCT in endodontics. Lectures and cases will cover evidence-based practice techniques, focusing on advanced 3D navigation of small high resolution CBCT volumes.

Learning Objectives:

At the end of the course, participants will be able to:

- Justify the use of 3D imaging in Endodontics
- Explain how the benefits of CBCT imaging overcome any potential risks associated with radiation dose
- Be familiar with current technical advances in CBCT hardware and software;
- Use contemporary 3D imaging navigation techniques to minimize interpretation time and maximize diagnosis;
- Recognize advanced 3D anatomy of the mouth
- Develop differential diagnosis for lesions associated with endodontic scans

Bruno Azevedo, DDS MS

FRIDAY, 9/10/21

HANDS-ON WORKSHOP- Next Level CBCT Imaging -

Perio- Implants Hands-on Course - 4 hrs.

Course Description:

Cone-beam computed tomography or Cone Beam (CBCT) is an indispensable tool for diagnostic imaging in modern dental implantology. CBCT imaging's challenge is the users' lack of training and understanding of basic and advanced imaging principles. After all, when reading a scan, there are known knowns; there are imaging patterns that we know that we know. There are known unknowns; that is to say, there are things regarding 3D imaging that we know that we don't know, and there are the unknown unknowns or 3D imaging things that we do not know we don't know. Understanding the imaging principles behind high-resolution 3D imaging volumes should enable professionals to plan and execute dental implant procedures appropriately and safely, ensuring a predictable clinical

and prosthetic outcome. The jaws' CBCT scans provide dentists with greater diagnostic precision of dental and bone morphologies and related pathologies than the conventional 2D intraoral digital image. The CBCT image is also essential for recently developed dynamic navigation and other advanced technologies, such as virtual planning and 3D printing of surgical guides. As CBCT imaging provides the clinician with a greater degree of confidence in detecting anatomical variations and pathologies, it acts as an essential tool to support the clinical decision. It offers valuable information on when to treat, how to treat, and, as needed, when not to treat. This course will discuss the importance of 3D imaging in dental implantology in the 3 phases of therapy with dental implants: pre-surgical evaluation and planning, intraoperative evaluation, and postoperative follow-up.

Learning Objectives:

During this Hands-On – CBCT Imaging Interpretation Course, you will learn practical techniques and secrets that will make you a better clinician and diagnostician. Here are a few topics you will be taught:

- Be familiar with current technological advances in CBCT hardware and software.
- Understand Imaging Artifacts and how to overcome them.
- Use contemporary 3D imaging navigation techniques to minimize interpretation time and maximize diagnosis.
- Recognize advanced 3D anatomy and pathologies of the jaws and paranasal sinuses.
- Integrate information presented in this course into efforts to improve the imaging skills of the participants.

Bruno Azevedo, DDS MS

SATURDAY 9/11/21

HANDS-ON WORKSHOP: Next Level CBCT Imaging-

CBCT Imaging for Dental Assistants - 2 hrs.

Course Description:

Dental Assistants are typically responsible for the acquisition of Cone-beam computed tomography (CBCT) scans. However, due to the lack of specific training on the nuances of the clinical and technical parameters of CBCT imaging, most of the dental staff does not have formal training on how to use the CBCT scanners they operate correctly. This systematic problem affects most dental practices regardless of the CBCT scanner they use and results in low image quality. This practical and dynamic course will guide dental professionals through all the specific steps to better acquire CBCT scans and maximize image quality and improve the acquisition workflow.

Learning Objectives:

After this course, the participants should be able to:

- Understand the proper acquisition parameters to enhance CBCT imaging
- Answer Dose-related questions to patients
- Understand how to better position patients on any CBCT scanner to maximize image quality
- Improve the CBCT acquisition protocols and workflow

Bruno Azevedo, DDS MS

SUNDAY 9/12/21

HANDS-ON WORKSHOP: Next Level CBCT Imaging:

Restorative- Endodontics Hands-on Course - 4 hrs.

Course Description:

Cone-beam computed tomography or Cone Beam (CBCT) is an indispensable tool for diagnostic imaging in modern dental practice. Understanding the imaging principles behind high-resolution 3D image volumes and the differences between the field of view (FOV) applications for endodontics and restorative purposes is a must. A significant change has recently occurred in the interpretation of CBCT images. CBCT imaging of the jaws provides dentists with greater diagnostic accuracy for dental and root morphology and pathology related to teeth and bones than conventional 2D intraoral digital imaging. As the use of the CBCT image provides the clinician with a greater degree of confidence in detecting anatomical variations and pathologies, it acts as an essential tool to support the clinical decision, as it offers valuable information about when to treat, how to treat and, as important when not to treat. Restorative Dentistry is one of the main beneficiaries of newly developed Filters for reducing CBCT artifacts allowing for evaluation of adaptation in prosthetic crowns, veneers, and restorations. This practical and dynamic course will guide dental professionals through all the specific steps to better use CBCT imaging in their daily practice and explain basic to advanced principles regarding 3D imaging interpretation. This Hands-On course will provide you with the essential tools to take full advantage of the critical benefits offered by CBCT imaging.

Learning Objectives:

During this Hands-On – CBCT Imaging Interpretation Course, you will learn practical techniques and secrets that will make you a better clinician and diagnostician. Here are a few topics you will be taught:

- Be familiar with current technological advances in CBCT hardware and software.
- Understand Beam Hardening and Blooming Artifacts and how to overcome them.
- CBCT assessment of enamel and gum thickness: what's new?
- Understand the application of Cinematographic Rendering (a technique that generates photorealistic 3D images from CBCT scans) in Endodontics and Restorative Dentistry.

Edward Lowe, DMD

HANDS-ON WORKSHOP: Fine Tuning Your Esthetic

Composite Restorations

Course Description:

With the advances in digital and ceramic technology, clinicians have come to share the responsibility of shade, material selection, and esthetic outcome with their dental ceramists when doing indirect restorations. This is not the case with direct composite restorations where the accountability for the final product rests solely in the hands of the clinician. There is an element of artistry combined with technique and an understanding of the science for consistent composite excellence. Regardless of your experience at composite artistry, this program will enhance your skills and enrich your knowledge by providing you with a system for achieving success in your day to day restorative routine.

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- Anterior Class IV composite
- Direct anterior composite veneer
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Learning Objectives:

- Understand how to layer composite material using dentin, enamel, and transparent shades to handcraft lifelike restorations
- Master using a PVS matrix to develop the lingual anatomy of your anterior composite restorations
- Create exquisite posterior restorations using matrix systems and incremental cusp buildup that require minimal finishing and occlusal adjustment

Western Region Dental Hygiene Symposium Speakers



SUSAN WINGROVE

Susan Wingrove is an International speaker, writer, researcher, instrument designer, and RDH Award of Distinction recipient. Susan is member of the American Dental Hygienist's Association, International Federation of Dental Hygienists, Oral-B Global Implant Board (P & G), and Western Society of Periodontology Board. Susan is a published author; Dental Economics, Digital Dentistry & Healthcare Knowledge, RDH Magazine, Scientific Panel for ACP Clinical Practice Guidelines, Doctor Clinical Implant Maintenance White Papers, Website 'Dynamics Concepts' Blog, and Implant Maintenance Textbook: Peri-Implant Therapy for the Dental Hygienist (Wiley). Resides in Missoula Montana, USA. Contact: Email: sswindrh@gmail.com / Website: wingrovedynamics.com. Sponsored by PDT, Sunstar, P&G.



AMBER AUGER

Amber Auger is a practicing dental hygienist and clinical innovations implementation specialist. She specializes in taking the latest science and creating customized protocols to meet your practice's goals. With over 15 years of experience in the dental industry, Amber provides practical protocols for technology implementation, refocuses on the patient experience, and utilizes systemic approaches to Periodontal Therapy. Amber is the 2019 Award of Distinction recipient, ALD Certified laser trainer, a monthly contributor to RDH Magazine, featured author for Dentistry IQ, Editor of RDH Graduate Newsletter, and host of #AskAmberRDH. Amber also provides preventive services abroad yearly and is always seeking dental professionals to join her team. Amber can be reached through email at AmberAugerRDH@gmail.com.



DR. SAM SHAMARDI

Dr. Sam Shamardi earned his DMD at Tufts University and his Periodontal certificate at the University of Pennsylvania. He is a Diplomate of the American Board of Periodontology and Implant Surgery and practices full-time while teaching part-time at the Harvard Dental Division of Periodontics, and is a Member of the Catapult Education Speakers Bureau. Dr. Shamardi is the founder of Dental Innovations LLC, a company aimed at providing novel solutions to unaddressed issues within dentistry. He lectures nationally and internationally in topics within periodontics and hearing loss in dentistry, and has been recognized as a dental entrepreneur for his revolutionary EarAid product. He has published multiple articles and authored his first book, The Financial Survival Guide for Dentists. Sponsored by Forward Science.



CLAIRE JEONG

Claire is an entrepreneur, author, educator, researcher, and international speaker. She is the founder of StudentRDH dental hygiene exam prep solutions and DentaToaster CE platform. Claire is the 2019 Ontario Memory Champion. With her expert knowledge in education, she created the WakeUp Memory™ system, which teaches how to use the brain and remember anything. To her audience's testimony: "Learning is now addictive." Many of Claire's articles, such as the New Hypertension Guidelines, are ranked as one of the top articles in many dental publishers. She is regularly invited to podcasts and conferences such as RDH Under One Roof as a key opinion leader. She is the Esther Wilkins Alumni Award recipient, recognized for her work to support the young dental hygiene professionals. Lastly, Claire is on the editorial board of RDH magazine and on the advisory board to dental hygiene schools. Claire has a Bachelor of Science in dental hygiene from Forsyth School of Dental Hygiene and a Master's degree in administration from Boston University. To learn more about Claire, go to www.ClaireJeong.com (email at ClaireJ@StudentRDH.com).



TRICIA OSUNA

Tricia is a University of Southern California graduate, Past President of the American Academy of Dental Hygiene and California Dental Hygienists' Association. Tricia has over 40 years as a dental hygienist, many of those years as a clinician, and shares with her audiences a humorous and enlightening presentation experience. She is a lifelong California DHA/ American DHA member and previous Member of the Dental Board of California. Licensed in both California and New York, her experiences traverse the dental hygiene arena in a unique way spanning a variety of roles including Consultant, Clinician, Educator, International Presenter, Author, and Mentor.



KATHY BASSETT

Kathy shares unique insights for successful local anesthesia, to benefit both patients and clinicians, gleaned over 40+ years of experience as an expanded functions dental hygienist in general and specialty dental environments, and 30+ years as professor of dental hygiene at Pierce College, and affiliate professor at University of Washington, School of Dentistry. She is a co-author of the textbook Local Anesthesia for Dental Professionals, has extensive experience with computer-controlled local anesthetic delivery (CCLAD) devices & techniques, and has presented hundreds of CE courses locally, nationally, and internationally.



DR. LARRY AMBROSE

Dr. Ambrose is a board certified periodontist and has been a full-time staff member at the VA Medical Center in Phoenix, Arizona since 1998. He is also Adjunct Clinical Faculty at the Arizona School of Dentistry and Oral Health. He received his certificate in Periodontics from the VA Medical Center in Milwaukee, Wisconsin and his Master of Science degree through Marquette University. From 1991 to 1995 he was a Commissioned Officer with the United States Public Health Service and practiced general dentistry on numerous Indian Reservations in northern New Mexico. He is currently an officer with the Western Society of Periodontology and is Past President of the Arizona Society of Periodontists.



HEATHER ROGERS

Heather M. Rogers began her career in dental hygiene in 1999 when she graduated from the College of Southern Nevada. She has worked in prosthodontics, periodontics, and general dentistry. Heather discovered her love for presenting educational courses while achieving her bachelor's degree and being involved with her professional association. She completed her Bachelor of Science in Dental Hygiene in 2010 and is currently providing continuing education for professionals in communications, diabetes, implant maintenance, probiotics, infection control, COPD, marijuana and vaping.



CINDY PURDY

Cindy Purdy has had an extensive career that is fueled by her passion for workplace wellness and equity of care for all patients. As a certified Telehealth Facilitator, Cindy is a seasoned teledentistry expert. She established a hybrid traditional/virtual dental practice that provided accessible dental health care services to her small mountain community in southern Colorado. In addition to promoting the use of teledentistry technology in current workflow models, she is the co-author of Teledentistry: Pathway to Prosperity, Critical Decisions Workbook. Contact: cpurdy14@gmail.com



JANET PRESS

Janet Press RDH, Fellow Academy Laser Dentistry, is the most highly sought after international speaker and trainer in Soft Tissue Laser Dental Education. Janet holds Standard Proficiency in both Diode and Nd:YAG lasers and has over 30 years in hygiene practice with 22 years Laser clinical experience. Her Laser Certification Programs provide comprehensive hands-on clinical education which meet the curriculum guidelines and standards for Laser Dental Education for licensed Dental Professionals in the US and Canada.



TRACI MURRAY

Traci is a full time clinical hygienist in her 20th year of practice. She is one of the few hygienists in the country working through the Dental Microscope 100% of the time. Traci's clinical practice is 50% Periodontal, and in the last 7 years, she has performed 5000 periodontal procedures with the microscope. Her lecture will show how the Microscope solves many of the ergonomic problems that plague hygienists in clinical practice, enabling them to work longer and with better clinical techniques. Traci works in private practice, in Charlotte, NC. She is married with 3 children.



EMMALEE BASTARACHE

Emmalee is a practicing dental hygienist in Charlotte, North Carolina. As a graduate of the Dental Hygiene class of 2019 at Central Piedmont Community College, Emmalee will share her perspective on Microscope Enhanced Dental Hygiene as a new hygienist. Emmalee was introduced to the dental microscope after a year of traditional clinical practice. She now performs 100% of her clinical procedures through the scope. Ergonomics in dental hygiene has become increasingly relevant to clinicians in the field. Hygienists embarking on 20-30 year careers are aware of their risk of hand, wrist, neck, back, and shoulder injuries in their chosen profession. Emmalee's unique perspective as a recently graduated hygienist will introduce both experienced and new clinicians to learning the microscope, as well as understanding its many advantages over traditional practice in the modern dental workplace in the US and Canada.

Western Region Dental Hygiene Symposium Program

Susan Wingrove, BS, RDH

Long-term Prevention of Peri-Implant Complications: Ceramic and Titanium Implants

Course Description:

To prevent peri-implant complications, professional in-office assessment, maintenance, and home-care recommendations are vital. For long-term implant success clinicians need to detect early signs of implant complications, diagnose any complications to provide early intervention and be able to perform professional in-office maintenance treatment. This course will follow the global healthy implant initiative for ceramic and titanium implants based on Susan's Clinical White Paper: Long-term prevention of peri-implant complications and textbook: Peri-Implant Therapy for the Dental Hygienist: Clinical Guide to Maintenance and Disease Complications.

Learning Objectives:

- Learn the current research protocols, tools, treatments and complications for long-term prevention of peri-implant disease.
- Detect: Put into practice biofilm identification and a five-step protocol to assess and monitor dental implants.
- Diagnose: Understand early intervention guidelines based on American Academy of Periodontology (AAP) peri-implant soft and hard deficiencies.
- Treatment: Biofilm-focused titanium and ceramic implant maintenance for all forms of implant-borne restorations/prostheses.
- Provide safe home-care recommendations for titanium/ceramic implants patients.

Amber Auger, RDH, MPH

Progressive Periodontal Therapy: A Comprehensive Approach to Periodontal Management

Course Description:

Identifying disease at its earliest stages is essential to prevent the progression of oral and systemic diseases. Proper classification of our patient's risk factors, and potential rate of progression enables the dental hygienist's role to be fully maximized. This creates a practice that is in full alignment with the standard of care, results in raving patients, and a thriving practice.

Learning Objectives:

- Access the 2017 AAP Periodontal Classifications and review case studies
- Discuss treatment recommendations based on patients stage and grade
- Evaluate communication techniques to increase patient acceptance
- Review new and innovative ways to improve the chairside experience for both the patient and the clinician; including voice recognition technologies, instruments, and new homecare items that will optimize patient compliance.
- Identify best practices of power instrumentation and latest hand scaling techniques

Sam Shamardi, DMD

Dentistry's Deafening Silence: Noise-Induced Hearing Loss

Course Description:

Dental Professionals are exposed daily to chronic levels of damaging sounds that result in permanent and irreversible loss of hearing over the course of their careers along with significant systemic health repercussions. This course will show how each dental professional's career and quality of life are at risk due to our working environment and a novel solution which can prevent this from happening.

Learning Objectives:

- Learn how your career as a dental professional jeopardizes your hearing
- Review literature and statistics to understand why hearing loss is inevitable without proper protection
- Understand how hearing loss causes significant systemic health issues

Claire Jeong, MS, RDH

AAP Classification Through Case Study

Course Description:

This course is specially designed for dental hygienists to apply the 2018 AAP Classification in their daily patient treatment. What notes should you record? How do you explain your findings to your patient? How to use the staging and grading charts? Through case studies, we will apply the concepts of the 2018 AAP classifications and practice creating notes.

Learning Objectives:

- Apply the 2018 AAP Classification System into individual patient care plan
- Improve chairside patient care recommendations by correctly categorizing the patient's periodontal condition
- Create proper notes that follow the new classification

PANEL DISCUSSION: You Are Not Alone, Ask Our Panelists and Get Your Answers

Course Description:

The young graduates have questions they would like answers to. Those questions could be related to insurance, benefits, communication, treatment planning, and many others. The presenter will collect the questions directly from the audience and ask the experience panelist to provide their advice. By having a diver panel, the audience will get answers from different angles. The panelist will consist of dentist, specialist, and dental hygienist.

Learning Objectives:

- Find answers based on others experience
- Understand that he/she is not alone in the journey
- Be encouraged to ask for help within the profession
- Continue in the career with a sense of comradery

Western Region Dental Hygiene Symposium Program

Tricia Osuna, RDH, BSDH, FAADH

Change Your Thoughts and Improve Your Outcomes - An Update on Protocols, Products and Treatment Options

Course Description:

Updated protocols assist us in determining our patient's specific needs. As we move towards a more collaborative profession, we need to embrace these updates to identify those needs. We are presented with continuous challenges of new advances in products and technology and their use in dentistry and are in need of information to determine when and how to add them into our armamentaria. As professionals providing health services, our perception of product use along with protocols needs to be discussed with our team as well as the interdisciplinary referrals we have. The process of care (assessment, diagnosis, treatment planning, implementation, evaluation and documentation) requires a comprehension of protocols, products and treatment options and how they are to be utilized.

Learning Objectives:

- Modify diagnosis assistance with the team and rationale for changes in assessment forms and diagnostic tools
- Distinguish which new-to-market products should be brought into your practice
- Integrate materials and products for a variety of uses in the dental office from infection control, dental hygiene therapy, oral cancer screening, patient communication and instrumentation
- Develop effective communication with patients and assist in the business of the dental practice
- Formulate strategies that incorporate efficiency in patient treatment for more productive scheduling

Tricia Osuna, RDH, BSDH, FAADH

It's All About Saving Lives! Organ Transplantation, Donation and Recipient Care

Course Description:

As dental professionals we are able to do something unique to help the thousands of individuals in need of our care. As a specific set of healthcare providers treating this unique group, transplant recipients, it is necessary for us to understand their dental care options and oral hygiene needs. Organ transplantation and donation has increased tremendously over the last 10 years yet there is still an immense need for understanding the processes of donation, transplantation and recipient care. Participate in a sharing of organ transplantation and donation information; learn about transplant recipients and their need for specialized dental care. This presentation will offer insight about the "how to's" of not only dental care for organ recipients but also communication with their families. We will also share insight on how to be a donor; understand that process and how to aid in sharing the message with your patients and colleagues on how to ~ Save Lives! Sharing life's experiences is a fabulous way to learn!

Learning Objectives:

- Recognize the need for specialized care for transplant recipients
- Develop protocols for patient's dental needs based on medications and oral complications
- Appreciate and understand organ donation processes
- Communicate with patients and family to share the need for registration

Kathy Bassett, BSDH, RDH, MEd, QOM

LECTURE: Complementary and Alternative Local Anesthesia Part-1

Focus 2021: CCLAD Devices & Techniques Lecture*

*Participants must attend Part-1 (pre-lecture) to participate in the Hands-on-Workshop (Part-2).

Course Description: To deliver optimal dentistry in a gentle, pain-free manner the value of alternative treatment strategies must be considered from all perspectives. Expand your pain management perspective beyond basic manual techniques. Computer-controlled local anesthetic delivery (CCLAD) devices & techniques can enhance both clinician and patient comfort. This course and workshop merges clinical experience with current technology to achieve positive pain control outcomes. Focus will be on CCLAD alternatives to common manual injection syringes and techniques, while leveraging anatomical advantages of "short needle IA", "high IA block", and "retromandibular" deliver techniques.

Learning Objectives:

- Understand current CCLAD devices available in North America
- Consider potential ergonomic risks associated with manual syringes and how CCLAD techniques can minimize these risks.
- Apply anatomical evidence to modify common injection techniques.

Larry Ambrose, DMD, MS

Periodontics: Fads, Facts and Fallacies

Course Description:

This presentation will provide an entertaining and informative review of some myths and misconceptions surrounding periodontics and implant dentistry. We will also explore what the future holds for the profession and how the role of the dental hygienist is evolving in the era of collaborative care.

Learning Objectives:

- Dispel some common myths about periodontal and peri-implant disease
- Separate the facts from the fiction about products and techniques we use every day
- Discuss future therapies that dental hygienists can incorporate into their practice

Heather Rogers, RDH, BSDH

An Infection Control Update for the Dental Professional Including COVID Updates

Course Description:

This course will discuss the Centers for Disease Control Guidelines for Dentistry and subsequent COVID updates regarding proper infection control standards and recommendations.

Learning Objectives:

- Review the Centers for Disease Control infection control guidelines with the latest COVID updates
- Demonstrate how to avoid cross contamination in your practice
- Concentrate on safe implementation of practices that protect you, personnel, and your patients

Cindy Purdy RDH, BSDH

Teledentistry: An Essential Technology For Your Community During Crisis & Recovery

Course Description:

Acceptance of telecommunication technology has advanced by 10 years in the last 6 months. Teledentistry was once viewed as an emerging technology; it has now become essential. Integrating telecommunications technology into practices and programs helps to alleviate many of the pressures placed upon dental providers during and after this global pandemic. It will continue to broaden the standard of care, to improve patient oral health outcomes, increase patient satisfaction and engagement, improve provider workflow, and increase staff efficiency. Dental hygienists will find valuable information on expanding career opportunities.

Learning Objectives:

- Recognize teledentistry as a means to improve patient outcomes and practice growth
- Learn the challenges, opportunities, and critical choices of practicing dentistry beyond the traditional dental office walls.
- Discover the business models, clinical settings, and alternative services that can improve patient outcomes and eliminate disparity of care in underserved communities.
- Incorporating teledentistry into existing workflows

Traci Murray, RDH and

Emmalee Bastarache, RDH

An Eye Opening Approach to Hygiene: The Dental Microscope Provides Clinical Excellence with the best in Ergonomics

Course Description:

This lecture will show how the Microscope solves many of the ergonomic problems that plague hygienists in clinical practice, enabling them to work longer and with better clinical techniques.

Learning Objectives:

- How traditional hygiene working positions lead to musculoskeletal pathology
- How magnification improves clinical excellence
- How incorporation of the dental Microscope into hygiene practice drastically improves the ergonomics, quality of care and patient experience.

WRDHS Hands-On Workshops

Janet Press, RDH

FRIDAY 9/10/21

HANDS-ON WORKSHOP: Diode Laser Certification in the US

Course Description:

Working with hands-on simulation exercises, detailed instrumentation photography and video, these programs are designed to build new clinical skills, confidence, and clinical understanding in the delivery of periodontal treatment protocols by using Soft Tissue Dental Lasers.

Learning Objectives:

- Expand your existing Hygiene treatment model through the adjunctive use of lasers.
- Interpret laser tissue interaction, power settings and the various techniques used to obtain optimal clinical outcome with periodontal therapy, recall, medically compromised patients, and difficult to manage areas.
- Learn the specifics of initiated and bare fiber tip applications.
- Practice the clinical technique and methods associated with laser sulcular debridement and disinfection.
- Successfully Increase the Number of Hygiene Laser periodontal therapy, laser recall management, and laser surgical procedures per day, and profit from your patients saying "YES" to the incorporation of laser technology.

Kathy Bassett, BSDH, RDH, MEd, QOM

SATURDAY 9/11/21

HANDS-ON WORKSHOP: Complementary and Alternative Local Anesthesia Part-2

Focus 2021: CCLAD Devices & Techniques • Hands-on-Workshop*

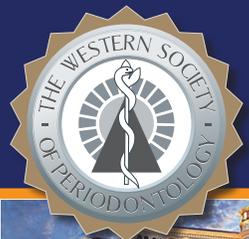
Participants must attend Part-1 (pre-lecture) to participate in the Hands-on-Workshop (Part-2).

Course Description:

In this multi-station, hands-on practicum will provide participants opportunities to explore ergonomic and technique differences between manual syringes and CCLAD delivery devices. Experiential learning will be facilitated with the use of simulators, participants will be able to animate technique and ergonomic principles hands-on. Mentors will address: 3 CCLADs currently available in North America.

Learning Objectives:

- Contrast manual vs CCLAD devices
- Experience ergonomic differences between manual syringes and CCLAD devices
- Contrast manual vs CCLAD techniques to improve clinician ergonomics and patient comfort
- Experience technique differences between manual syringes and CCLAD devices
- Update basic injection techniques and utilize relevant anatomy to increase reliability of clinical anesthesia outcomes



OFFICIAL HOTEL AND LOCATION OF THE ANNUAL SESSIONS



BELLAGIO LAS VEGAS HOTEL & CASINO

Inspired by the villages of Europe, AAA Five Diamond Bellagio overlooks a Mediterranean-blue lake in which fountains perform a magnificent ballet. Award-winning dining, world-class art gallery, exquisite Conservatory & Botanical Gardens, Cirque du Soleil's stunning performance of O, sumptuous spa and luxury shopping add to the symphony that is Bellagio. Make yourself at home in one of the 3,933 guestrooms featuring iPod docking stations and minibars. Your room comes with a pillowtop bed. Complimentary wired and wireless Internet access keeps you connected, and pay movies provide entertainment. Private bathrooms with separate bathtubs and showers feature complimentary toiletries and hair dryers are also waiting inside your room at the Bellagio.

Relax at the full-service spa, where you can enjoy massages, body treatments, and facials. Bellagio offers an award-winning beauty oasis with the singular goal of pampering you. This Las Vegas spa & salon services will restore, revive and replenish you with a unique menu of international treatments in a luxurious 65,000-square-foot setting.

Before a night out at the casino, the 5 outdoor swimming pools are a perfect way to relax and recharge. Additional features include wireless Internet access (surcharge), gift shops/newsstands, and a hair salon.

Unrivaled fare pairs with unrivaled luxury at any of our AAA Five Diamond-awarded Las Vegas restaurant options. Travel with us and taste a global adventure of formal and casual restaurants. Reservations are not only suggested, they're envied.

Explore the multi-faceted nature of absolute luxury. As the most luxurious resort in one of the world's most celebrated cities, Bellagio invites you to discover the indulgences of their many amenities including a business center, limo/town car service, and express check-in.

Reservations can be made online at the Western Society of Periodontology 2021 Annual Session Attendee Reservation Website.

To receive the discounted group rate reserve your room by August 8, 2021.

Western Society of Periodontology room block.

<https://book.passkey.com/go/wsp2021annualsession>

Attendees are also welcome to call the Group Reservation line 888-987-6667. Mention Western Society of Perio for Special Group Pricing.

BELLAGIO LAS VEGAS HOTEL & CASINO

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The Western Society of Periodontology is an ADA CERP Recognized Provider. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry. WSP designates this activity for up to 24 continuing education credits.

FOR INFORMATION ON THIS OR OTHER SEMINARS CONTACT:

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WESTERN SOCIETY OF PERIODONTOLOGY

Presents...

THE COLLABORATIVE EVENT OF THE YEAR!

WSP 69th Annual

SCIENTIFIC SESSION 2021

REJUVENATION... NEW FRONTIERS IN DENTISTRY



Western Region

DENTAL HYGIENE SYMPOSIUM

SEPTEMBER 10-12, 2021



Personal Information

Full Name: _____ Dentist RDH RDA
 Address: _____ Suite#: _____
 City: _____ State: _____ Zip: _____
 Daytime Phone: _____ Cell Phone: _____
 Email Address: _____

2021 ANNUAL MEETING REGISTRATION FEES

	By June 30th, 2021		After July 1st, 2021	
	3 day	2 day	3 day	2 day
Member Dentists	<input type="checkbox"/> \$795	<input type="checkbox"/> \$695	<input type="checkbox"/> \$845	<input type="checkbox"/> \$725
Non-Member Dentists	<input type="checkbox"/> \$895	<input type="checkbox"/> \$795	<input type="checkbox"/> \$895	<input type="checkbox"/> \$825
Member Hygienists/Staff	<input type="checkbox"/> \$299	<input type="checkbox"/> \$249	<input type="checkbox"/> \$329	<input type="checkbox"/> \$299
Non-Member Hygienists/Staff	<input type="checkbox"/> \$399	<input type="checkbox"/> \$295	<input type="checkbox"/> \$439	<input type="checkbox"/> \$369
Member Faculty, Full-time Military & Retired Dentists	<input type="checkbox"/> \$495	<input type="checkbox"/> \$395	<input type="checkbox"/> \$535	<input type="checkbox"/> \$495
Non-Member Faculty, Full-time Military & Retired Dentists	<input type="checkbox"/> \$595	<input type="checkbox"/> \$495	<input type="checkbox"/> \$625	<input type="checkbox"/> \$525
Students & Residents	<input type="checkbox"/> \$245	<input type="checkbox"/> \$195	<input type="checkbox"/> \$265	<input type="checkbox"/> \$215
Hands-On Courses - Member Dentists	<input type="checkbox"/> \$395		<input type="checkbox"/> \$425	
Hands-On Courses - Non-Member Dentists	<input type="checkbox"/> \$475		<input type="checkbox"/> \$495	
Hands-On Courses - Hygienists	<input type="checkbox"/> \$195		<input type="checkbox"/> \$225	
Full Day Hands-On Courses - Members	<input type="checkbox"/> \$695		<input type="checkbox"/> \$725	
Full Day Hands-On Courses - Non-Members	<input type="checkbox"/> \$795		<input type="checkbox"/> \$825	
Call for Single Day Pricing				
			Total Amount Due: _____	

Course Registration Cancellations: The fee, less a \$35 per person processing charge, will be refunded if cancellation is made by 7/4/21. Cancellations made between 7/4/2021- 8/3/2021 will be charged \$100 cancellation fee. No refund will be made for cancellations after 8/1/2021. Please register online at wsprio.org.

Foundation Gala Tickets \$129 Guest \$129

NEW COLLABORATIVE REGISTRATION OPTIONS

BRING A COLLEAGUE - The goal of the WSP, from its inception, has been to build a meeting that appeals to the team. In that light we have created entirely new registration options unlike any other dental meeting in America. You may still register on your own, however, now if you want to bring your hygienist(s) or referring General Dentists we are offering a package price that is a substantial discount. Below are your member pricing options.

2021 ANNUAL PACKAGE REGISTRATION FEES*

I am a Member Periodontist and I want to bring:

	Special Rate:	3 day	2 day
_____ Hygienists		<input type="checkbox"/> \$249	<input type="checkbox"/> \$199
_____ General Dentists		<input type="checkbox"/> \$399	<input type="checkbox"/> \$299

Payment Information

Full Name: _____ Signature: _____
 Credit Card #: _____ Exp. Date: _____ CW#: _____
 Billing Address: _____ City: _____ State: _____ Zip: _____
 Enclosed is a check for the amount of (or process our payment in the amount of) \$ _____

Complete and mail to: 15428 N. Nebraska Ave., Lutz, FL 33549 or fax to 813.422.7966

ZERAMEX ZIRCONIA DENTAL IMPLANTS

Upcoming Events



ZERAMEX HANDS-ON ZIRCONIA DENTAL IMPLANT WORKSHOP

Tuition Fee: \$795.00

8 CE Credits

Use the code **IMPLANTS** to get \$300 off when you register!

DISCOUNTED RATE: \$495

REGISTER FOR THESE DATES:

Mar 6, 2021 - Miami
April 16, 2021 - Denver
May 7, 2021 - Phoenix
June 5, 2021 - Sonoma
July 24, 2021 - Dallas
Aug 28, 2021 - Chicago

Join us for a one day hands on workshop! Learn why the innovations in Zirconia implants are an essential benefit to the ever evolving client demand!



SEE ONE DO ONE - CERAMIC IMPLANTS TWO-DAY HANDS-ON AND LIVE PATIENT TRAINING COURSE

Tuition Fee: \$3995.00

14 CE Credits

Use the code **ZERAMEX** at check out and save \$500 when you register!

DISCOUNTED RATE: \$3495

2021 Dates:

April 9-10 | June 11-12
Sep 17-18 | Dec 10-11
Location: Charlotte, NC

Day 1 – The afternoon session will include model work and placement of a dummy ceramic implant.

Day 2 – You will assist or observe 2-4 ceramic implant surgeries and get to place one implant on a live patient.



ZERAMEX BRINGS YOU TO THE 10TH IAOCI WORLD CONGRESS

ZERAMEX Corporate Forum: \$495

SAVE THE DATE!

August 22, 2021, it's ZERAMEX' Corporate Forum!
Location: Las Vegas, NV

Attend our ZERAMEX Corporate forum on Sunday, August 22nd, and get the complete IAOCI 2-Day Ceramic Implant Convention for

FREE!

IAOCI regular price: USD 795
SAVE \$300!

It is ZERAMEX' 5th year exhibiting at IAOCI! You are invited to visit us! Share the hands on experience and live lectures.

Visit this our website to see all our upcoming events: www.zeramexusa.com/events

“

The Cosmetic Implant

White in color. Excellent with soft tissue. Small in size ”

DESIGNED FOR ANTERIOR AESTHETICS!

The Zeramex®XT 3.5 diameter displays superior aesthetics because of it's white color and small size. Even in the thinnest tissue type the 3.5 mm implants offer natural tooth color and will never show any metallic color.

ZIRCONIA DENTAL IMPLANT WITH THE SAME WORKFLOW OF MODERN METAL IMPLANTS

The ZERAMEX® XT implant is unique as it is a 2-piece, screw-retained zirconia implant. High primary stability can be achieved with the tapered root shaped design. The internal connection of the implant and abutment maximizes the material strength while allowing for prosthetic flexibility and multiple customizable abutment options.



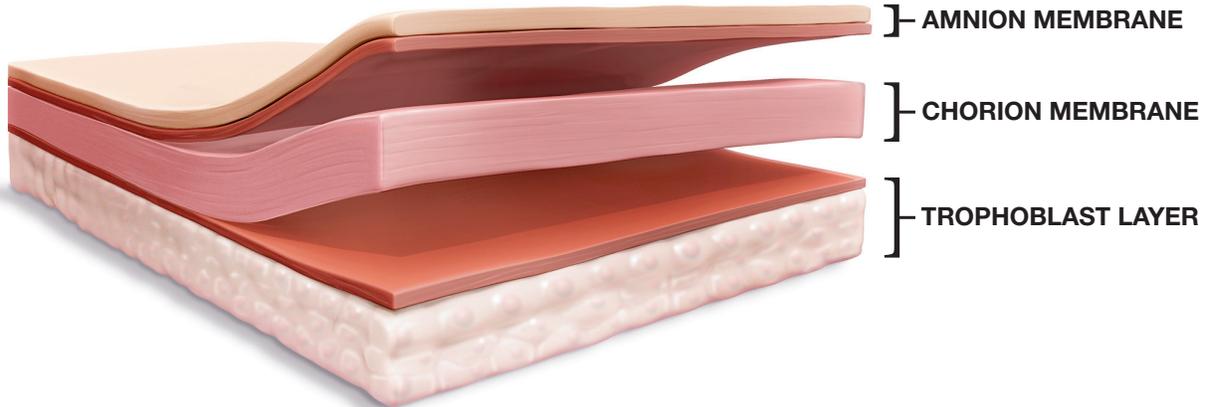
To learn more about the science behind the Zeramex ceramic implant system, visit our website: www.thecosmeticimplant.com

Biocompatible Zirconia Implants

NEW!

SALVIN®
AMNIO **EXCITE®**
Amnion / Chorion
Membrane

Structure of Salvin AmnioExcite®
3-Layer Placental Membrane



AmnioExcite® Includes Both Amnion And Chorion PLUS The Trophoblast Layer

**The Trophoblast Layer Contains More Than 50% Of
The Biologically Relevant Proteins In The Placental Membrane ⁽¹⁾**

- 4X Thicker Than An Amnion Or Chorion Membrane For A Substantial Protective Barrier ⁽²⁾
- Does Not Fold In Upon Itself When Rehydrated, Making It Much Easier To Handle
- LifeNet Health®'s Matracell® Decellularization Process Serves To Minimize Immunogenic And Inflammatory Responses ^(3,4)

1. LifeNet Health. TR-004-2020 Characterization of the Amnion, Chorion, and Trophoblast Layers of Decellularized and Freeze-Dried Placental Membrane. 2020.

2. Verbruggen SW, Oyen ML, Phillips AT, Nowlan NC. Function and failure of the fetal membrane: Modelling the mechanics of the chorion and amnion. PLoS One. 2017; 12(3):e0171588

3. LifeNet Health, inventor US2018/0361026A1 pending. USA2018. US patent 6743574

4. Moore MA, Samsell B, Wallis G, Triplett S, Chen S, Jones AL, et al. Decellularization of human dermis using non-denaturing anionic detergent and endonuclease: a review. Cell Tissue Bank. 2015;16(2):249-59.