Myth-Busters: Dispelling Common Myths in Clinical Practice

January 23 - 24, 2015
Millennium Biltmore Hotel Los Angeles
506 South Grand Avenue, Los Angeles, CA 90071-2607
General Sessions • Dental Hygiene Forum • Dental Hygiene Hands-On Workshop • Hands-On Model Workshops

January 21, 22, 25, 2015
Herman Ostrow School of Dentistry of USC
925 W. 34th St., Los Angeles, CA 90089
Cadaver Workshops • Hands-On Workshop
Dear colleagues and friends:

Clinical practice of dentistry is fraught with many myths that have been propagated by misleading and opinion-filled presentations, as well as commercial hype. It is difficult for many clinicians to discern between hype, opinion and evidence. A panel of internationally renowned experts will examine many common clinical beliefs and determine their validity. Some of the questions explored include: can periodontal tissues be regenerated and maintained? Can implants be predictably placed into fresh extraction sockets? Can various interventions to preserve the alveolar ridge maintain the bone volume? Are autogenous bone and soft tissues the gold standards for various augmentations of bone (Sinus, alveolar ridge) and mucosa (recession defects, soft tissue complications)? Can nutrition and stress affect health and response to therapy? The program boasts five days with a diverse range of educational opportunities. In addition to the two-day general sessions, there are seven hands-on workshops, including four cadaver workshops and five model workshops. Although the majority of the general session presentations are interdisciplinary in nature, there are also sessions designated as “Surgical Track”, “Restorative Track” and “Dental Hygiene Forum” that focus on specific disciplines. The program is sure to inspire you and provide material, which are very germane to clinical practice. This is an educational opportunity not to be missed by the entire oral healthcare team, including specialists, restorative dentists, dental hygienists and dental technologists.

Homayoun Zadeh, DDS, PhD
Symposium Chair and Moderator
Wednesday, January 21, 2015 - Herman Ostrow School of Dentistry of USC
8am-5pm
- Cadaver Workshop: Vestibular Incision Subperiosteal Tunnel Access (VISTA) soft tissue augmentation (Homa Zadeh)
- Hands-On Workshop: Harnessing the power of digital dentistry for surgeons and restorative dentists (Richard Lin)

Thursday, January 22, 2015 - Herman Ostrow School of Dentistry of USC
8am-5pm
- Cadaver Workshop: Vertical ridge augmentation (Istvan Urban)

Friday, January 23, 2015 - General Sessions - Millennium Biltmore Hotel Crystal Ballroom
8:00 am
- Registration & Continental Breakfast
- Keynote Lecture

9:00 am
- Marco Esposito (Keynote Speaker)

9:45 am
- Coffee Break

10:00 am
- Lyndon Cooper

10:45 am
- Christoph Hämmerle

11:30 am
- Expert Panel

12:15 pm
- Lunch

Surgical Track - Crystal Ballroom
Maxillary sinus
1:30 pm
- Stephen Wallace

2:00 pm
- Hom-Lay Wang

2:30 pm
- Christopher Church

3:00 pm
- Coffee Break

Ridge augmentation
3:30 pm
- Arash Khojasteh

4:00 pm
- Istvan Urban

4:30 pm
- Expert Panel

5pm-7pm
- Cocktail Reception

Restorative Track - Tiffany Ballroom
Periodontics & Prosthodontics
Moderator: Ramin Mahallati
1:30 pm
- George Cho

2:15 pm
- Masayuki Okawa

Saturday, January 24, 2015 - General Sessions - Crystal Ballroom
7:30 am
- Registration & Continental Breakfast

8:00 am
- Hom-Lay Wang

8:40 am
- Dimitri Tatakis

9:20 am
- Alina Krivitsky-Aalam

10:00 am
- Coffee Break

10:30 am
- Istvan Urban

11:10 am
- Christoph Hämmerle

11:50 am
- Expert Panel

12:15 pm
- Lunch

Ortho/Perio
1:30 pm
- Christoph Hämmerle

2:15 pm
- Istvan Urban

3:00 pm
- Coffee Break

3:30 pm
- Thomas Han

4:15 pm
- Marco Esposito

5:00 pm
- Meeting Adjourns

Implant esthetics
1:00pm Hands-On Model Workshop: All-on-4 implants and restoration with monolithic zirconia (Lyndon Cooper)
1:00pm Hands-On Model Workshop: Immediate implant and soft tissue augmentation (Thomas Han)
1:00pm Hands-On Model Workshop: Mandibular posterior augmentation (Arash Khojasteh)

Perio therapy
1:30 pm
- Alina Krivitsky

2:15 pm
- Coffee Break

Ultrasonics Workshop
2:30 pm - 5:30 pm
- Diane Melrose

Sunday, January 25, 2015 - Herman Ostrow School of Dentistry of USC
8am - 5pm
- Cadaver Workshop: Horizontal ridge augmentation (Hom-Lay Wang)

- Cadaver Workshop: Maxillary sinus augmentation (Stephen Wallace)
Keynote Presentation

Marco Esposito (SWEDEN)
Leo and Sydelle Ward Foundation Endowed Keynote Lectureship

Dr. Esposito is Associate Professor in Biomaterials with the Sahlgrenska Academy at Göteborg University, Sweden, Editor in Chief of the European Journal of Oral Implantology (EJOI) and of the Rivista Italiana di Stomatologia (RIS), Associate Editor of the Cochrane Oral Health Group, President of the British Academy of Implant and Restorative Dentistry (BAIRD), and Academic Advisor to the Diploma in Implant Dentistry at the Faculty of General Dental Practice (UK) of the Royal College of Surgeons of England. Marco graduated with honors in dentistry at the University of Pavia, Italy, in 1990 and was awarded a PhD in Biomaterials from the Göteborg University in 1999. He created and directed the Postgraduate Dental Specialties courses in Dental Implantology at the University of Manchester, UK (2006-2011). He is a specialist in Periodontics (UK). He authored more than 200 publications in international peer-reviewed journals and book chapters and gave more than 400 lectures and courses at national and international level. He is currently working as free lance researcher in clinical implant dentistry and periodontology.

Topic 1: How scientific evidence can help in clinical decision making: antibiotics prophylaxis at implant placement and short implants versus vertical augmentation for athrophic mandibles

Topic 2: Sinus lift procedures: the scientific evidence

After a brief introduction on the role or randomised controlled trials (RCTs), systematic reviews and meta-analyses for evaluating the efficacy of medical interventions, a Cochrane systematic review on the effectiveness of antibiotic prophylaxis in implant dentistry will be presented and critically discussed. It will be followed by the presentation of the data from all RCTs available evaluating comparing short implants versus longer implants placed in vertically augmented mandibles. In the second lecture the issue of when augmenting the atrophic posterior maxilla and which procedure to use will be critically evaluated in the attempt to provide few facts and not opinion to the participants.

Upon completion of these presentations participants should be able to:

• Understand the clinical relevance of randomised controlled trials and systematic reviews/meta-analyses for their everyday clinical practice.
• Decide when using antibiotics prophylaxis at implant placement.
• Know the scientific literature evaluating short implants in alternative to augmentation procedures.
• Determine which sinus lift procedures have been validated by reliable clinical trials.
Stefan Bughi, MD, MACM, AFBD (USA)

Dr. Bughi is Clinical Associate Professor of Medicine at the Keck School of Medicine of USC. He is Board Certified in Internal Medicine and Metabolism & Endocrinology. He works as physician specialist at RLANRC, where he is the Chair of the Graduate Medical Education, and a member of the Physician Well-Being Committee. He is also a Fellow of the American Institute of Stress. His research interests are: endocrinology of stress; stress and medical profession.

Topic: Stress and Burnout; What we Learned from the Millennial Dental Hygiene Students

- Define the millennial generation
- Identify the prevalence and main causes of stress and burnout among millennial dental hygiene students
- Review the wellness program and the impact of faculty vs. peer support
- Promote wellness to improve patient safety and quality care
Stephanie A. Bughi, DHSc, MS (USA)

Stephanie graduated from A.T. Still University, where she received her doctorate degree in Global Health. Her academic background also includes two degrees from the Keck School of Medicine, University of Southern California (USC), a master’s in Global Medicine and a bachelor’s in Health Promotion and Disease Prevention. In 2008, she co-founded the World Med Global Health Initiative at USC, which focuses on disseminating information related to worldwide health issues. Over the last 11 years, Stephanie has explored the implications of stress on human health and has presented her work at local, national, and international conferences. Her academic and research interests include improving the well being of health-care providers, the delivery of quality care, and the practice of patient safety.

Topic: Stress and Burnout; What we Learned from the Millennial Dental Hygiene Students

- Define the millennial generation
- Identify the prevalence and main causes of stress and burnout among millennial dental hygiene students
- Review the wellness program and the impact of faculty vs. peer support
- Promote wellness to improve patient safety and quality care
Lyndon F. Cooper, DDS, PhD (USA)

Dr. Cooper is the Stallings Distinguished Professor of Dentistry of the Department of Prosthodontics at the University of North Carolina at Chapel Hill. He is currently Chairperson, Acting Director of Graduate Prosthodontics and the Director of the Bone Biology and Implant Therapy Laboratory. Dr. Cooper is a Diplomate of the American Board of Prosthodontics and serves as the President of the American College of Prosthodontics. He received the 2004 Clinician/Researcher Award by the ACP. Dr. Cooper’s laboratory focuses on bone biology, adult stem cell bone regeneration, and clinical evaluation of dental implant therapies. The laboratory receives funding through NIH and by industry collaboration. Their research findings have been presented in over 70 publications and in more than 200 national and international presentations.

Topic 1: Digital Dentistry

Topic 2: Full-Arch Implant Supported Prosthesis

Hands-On Model Workshop: All-on-4 implant and restoration with monolithic zirkonia
George C. Cho, DDS, FACP (USA)
Dr. Cho is Associate Professor in the Division of Restorative Sciences, Co-Director of the Advanced Education in Prosthodontics and Director of Predoctoral Implant Dentistry at the Ostrow School of Dentistry of USC. Dr. Cho received his dental degree in 1987 and graduated from the Advanced Education in Prosthodontics Program in 1990 from the Ostrow School of Dentistry, and has been since a full time faculty member. He is also a fellow of the American Board of Prosthodontics, member of the American Academy of Restorative Dentistry, ADA, CDA, and Western Los Angeles Dental Society. Dr. Cho maintains a private practice limited to Prosthodontics in Torrance, California.

Topic 1: The Effects of Crown Contours and Tissue Emergence Profile, What the Restorative Dentist Should Know and Do
Topic 2: Hands-On Model Workshop - Making Implant Provisional Restorations
Christopher Church, MD (USA)

Dr. Church is associate professor and residency program director in the Department of Otolaryngology-Head and Neck Surgery at Loma Linda University. He has led the Loma Linda University Sinus & Allergy Center since 2002. He completed medical school and residency in Otolaryngology-Head and Neck Surgery at Loma Linda, followed by a fellowship in Rhinology and Advanced Sinus Surgery at Stanford. Dr. Church also directs the LLU Rhinology Fellowship, training tertiary specialists in medical and surgical management of diseases of the nose and sinuses. He has research interests in chronic sinusitis and has collaborated with dental surgeons on a number of projects. He lives with his wife and two teenage children in Redlands, and enjoys golf, tennis and the outdoors.

Topic: The Maxillary Sinus: Anatomy, Physiology and Pathology for the Implant Surgeon

The course is designed to familiarize the implant surgeon with the anatomy, physiology and common pathologies of the maxillary sinus. Topics will presented from the perspective of a physician and will emphasize interdisciplinary cooperation to identify potential pitfalls in maxillary sinus and implant surgery which may be avoided and optimize management of those that cannot.

Upon completion of this presentation participants should be able to:

- Understand the development of the maxillary sinus and it’s relation to the dentition.
- Appreciate how aberrations in the normal physiology of the maxillary sinus may lead to disease.
- Differentiate between inflammatory and non-inflammatory maxillary sinus findings on CT.
- Develop a plan for interdisciplinary cooperation with their otolaryngology MD partners.
Dr. Giannobile is the Najjar Endowed Professor of Dentistry and Biomedical Engineering and Chair of the Department of Periodontics and Oral Medicine at the School of Dentistry. He received his DDS and an MS in Oral Biology from the University of Missouri, and later received his certificate in Periodontology and Doctor of Medical Science in Oral Biology from Harvard University. He subsequently completed postdoctoral training in Molecular Biology at the Dana Farber Cancer Institute and Harvard Medical School. Dr. Giannobile previously served as a faculty member at Harvard and Forsyth Institute in Boston. He has published and lectured extensively in the fields of Regenerative Medicine, Tissue Engineering, and Salivary Diagnostics as it relates to periodontal and peri-implant reconstruction. Dr. Giannobile is an Editor-in-Chief of the Journal of Dental Research and is on the editorial boards of multiple journals. He is a fellow of the American College of Dentists and a Diplomate of the American Board of Periodontology. Dr. Giannobile currently serves as president of the American Academy of Periodontology Foundation.

**Topic: Periodontal regeneration: challenges, current Possibilities and future prospects**

Repair of alveolar bone defects caused by development abnormalities, trauma or disease is a major goal of oral reconstructive therapy. The field of tissue engineering combines advances in materials science and biology to repair tissues and organs. Periodontal and peri-implant tissue engineering has been achieved with limited success by the utilization of barrier membranes and block grafting techniques. Over the past decade investigators have begun to utilize growth factors to restore lost tooth support due to damage of the alveolus. This presentation will review emerging therapies in biomaterials, growth factor biology and cell/gene therapy with particular emphasis on recent clinical trial results using recombinant human platelet-derived growth factor and bone morphogenetic proteins. The presentation will conclude with a future perspective on the use of novel biomimetic approaches and interactive regenerative materials for oral tissue engineering or defects around teeth and dental implants. This conclusion will be given in relation to the recently convened AAP Workshop on Periodontal Regeneration.

Upon completion of this presentation participants should be able to:

- Understand the principles involved in regeneration of tooth-and implant-supporting periodontal tissues such as bone, periodontal ligament, gingival and cementum.
- Be able to determine the ability of the “gold standard” bone grafting procedures to repair periodontal and dental implant bone defects.
- Determine the potential of new emerging therapies such as growth factors, stem cells gene therapy and interactive scaffold matrices.
- Understand both patient-specific and implant-specific factors affecting treatment outcomes of regenerative therapies.
Dr. Hammerle is the Chairman Clinic for Fixed and Removable Prosthodontics and Dental Material Science Center for Dental Medicine, University of Zurich. His clinical focus is on the comprehensive treatment applying all available options of reconstructive dentistry including dental implants. Prof. Hammerle is Chairman of the Committee for Specialization in Reconstructive Dentistry in Switzerland, President of the Osteology Foundation, President of the Dental Campus Association. He has published over 200 scientific and clinical.

**Topic 1: Ridge preservation: a concept improving outcomes**

**Topic 2: Soft tissue management around implants for improved function and esthetics**

**Topic 3: The use of short implants to expand treatment**

How much osseointegration is required for the biomechanical equilibrium?

Patient wellbeing is in the center of modern implant dentistry. Success of treatment and long-term maintenance of the result are two important factors. Equally important is the stress inflicted on the patient resulting from therapy. Treatment pathways associated with lower morbidity, and costs and time are progressively preferred. In this context an increasing body of evidence indicates that implants with shorter length than normal will lead to successful clinical outcomes. The clinician is often confronted with a bone morphology that does not allow placing implants in a prosthetically ideal position without concomitant bone augmentation procedures. Even though augmentation procedures have been demonstrated to be successful, they are associated with significantly increased morbidity, cost and time needed for therapy. Based on recent evidence shorter implants with rough surfaces appear to have similar survival rates as standard-length implants. Thus, shorter implants have become an alternative to bone augmentation procedures in various clinical situations and are more widely used in other indications as well. Possible benefits associated with the use of shorter implants encompass: less diagnostic procedures (e.g. DVT) necessary, lower risk of damage to adjacent structures (root, nerves, vessels, sinuses), avoiding large augmentation procedures, less diagnostic and surgical skills necessary, lower patient morbidity, less complications, lower costs, shorter treatment time.

Upon completion of this presentation participants should be able to understand:
- Rough surface implants provide improved osseointegration
- Shorter implants allow for sufficient bone to implant contact
- Shorter implant offer various clinical advantages for patients and therapists
Thomas J. Han, DDS, MS, FACP (USA)
Dr. Han received his DDS degree in 1982, Certified in Periodontics in 1984, and MS degree in Oral Biology in 1985 from the UCLA School of Dentistry. He is a Diplomate of the American Board of Periodontology, the American Board of Oral Implantology/Implant Dentistry, and the International Congress of Oral Implantology. As a Clinical Professor of the Ostrow USC Dental School, Department of Periodontics, he contributes to the post-doctoral periodontal and implant surgical training of the residents. He is a fellow of the American College of Dentist, a member of the American Academy of Esthetic Dentistry, and a past Adjunct Professor of the UCLA School of Dentistry. He has published numerous scientific articles and text book chapters, and he has lectured widely both in the United States and abroad on the topic of esthetics in dental implant and periodontal surgery.

**Topic: Predictable, Minimally Invasive, Immediate Implant Placement for Complex Esthetic Cases**

Placing dental implants in the esthetic zone, where there is extensive alveolar bone loss from dento-alveolar infection or other pathology, is a major challenge in implant surgery. With heightened esthetics expectations pushing the art and science of dentistry, it is necessary now more than ever for clinicians to fully understand all of the available options for treatment and to appropriately decide which ones to use, where and when to use them, and how to utilize each on a patient by patient basis. An important treatment objective for a clinician should be to utilize a surgical approach that minimizes the extent and number of procedures. This must be done while providing predictability, longevity and acceptable esthetics. Immediate implant placement using a one stage approach, involving simultaneous bone and soft tissue grafting can be used to preserve the vertical heights of interdental papilla between implants, even in cases with extensive alveolar bone loss. Often, this approach results in better esthetics when compared to the conventional delayed approach of implant placement when dealing with multiple adjacent implants. However, there are several aspects of soft and hard tissue situations that a clinician needs to recognize, compensate and manage during surgeries to ensure esthetic predictability and longevity.

In this presentation, the examination and thought process involved in the diagnosis and treatment planning of complex maxillary anterior immediate implant placements in the esthetic zone will be discussed. Predictable surgical techniques of immediate implant placement in challenging situations will be presented with clinical and scientific rationales. New surgical techniques, which can be utilized in immediate implant placement to increase esthetic predictability while minimizing patient discomfort, will be described and demonstrated with short videos. Long term results of the described surgical approaches will also be presented.

**Hands-On Model Workshop: Predictable Immediate Implant Placement and Soft Tissue Augmentation**

Optimal esthetics and functional outcome of implants requires careful planning, proper 3D positioning of implants, as well as management of peri-implant soft tissues and alveolar socket walls. It is now clear that the presence of a stable zone of attached mucosa is not only important for optimal esthetics, but also can prevent the development of pre-implantitis. This workshop will provide a predictable protocol for placement of implants into extraction sockets, as well as management of peri-implant hard and soft tissues. Novel techniques such as “vestibular incision subperiosteal tunnel access (VISTA)” and others will be introduced, which can be used for augmentation of soft tissues around implants, as well as for correction of soft tissue complications.
Michael Hirt, M.D., A.P.C. (USA)

Michael Hirt, M.D. obtained his medical degree from Harvard Medical School and completed his Internal Medicine training while conducting medical research at UCLA. Dr. Hirt is one of the rare physicians who then pursued specialty training in Nutrition at UCLA’s prestigious Center for Human Nutrition, and he is board certified in both Internal Medicine and Nutrition. This seminal decision was based on his long-held belief that Nutrition greatly impacts the ability to fight disease and achieve optimal health. Clinical Nutrition has long been a neglected field of interest by most physicians, and yet it is the very subject that patients wish their doctors could discuss with them. While at UCLA, Dr. Hirt also studied acupuncture and herbal medicine which allows him to practice a unique style of medicine termed, Integrative Medicine. When evaluating a patient, Dr. Hirt can pull together, or “integrate,” the best therapies from Western science, Eastern traditions, and Nutritional disciplines to form a comprehensive, multi-layered medical program that treats the whole person. He was on the UCLA School of Medicine teaching faculty for over a decade. Located in the suburbs of Los Angeles, California, Dr. Hirt’s medical practice is The Center for Integrative Medicine, a nationally recognized and award-winning practice he founded in 1997. Dr. Hirt is also a featured lecturer at public and societal forums and his counsel is frequently sought by industry clients and the media.


Popular literature is replete with best selling health/diet books that purport to tell consumers the perfect diet for rapid weight loss, infinite energy, and disease-free living.

But whom do you believe? Should you be a Vegan? Mediterranean? Paleo???

This lecture will scientifically explore the facts and myths behind three of today’s top selling, most influential diet/health books. To enjoy lasting health and vitality, attendees will come to understand what they should eat and why.
Arash Khojasteh, DMD,OMFS (IRAN)
Dr. Khojasteh is Associate Professor of oral and maxillofacial surgery at Shahid Beheshti university of Medical Sciences, Tehran, Iran. He is also director of the Basic science researches in Iranian Institute for dental research. Dr. Khojasteh is a graduate of Tehran University of Medical Sciences. He has got his degree in oral and maxillofacial surgery from the University of Shahid Beheshti. Now he is candidate for PhD in tissue Engineering from Antwerp University in Belgium. He is a Diplomate of the Iranian Board of Oral and Maxillofacial Surgery. He has co-authored many peer reviewed articles, abstracts, and textbook chapters. His areas of research have included bone augmentation, bone regeneration, and stem cell therapy. Dr khojasteh is a head of scientific committee of Iranian Society of Oral and Maxillofacial Surgeons. He has got 2 president awards as the best young researcher and best student in Iran in last 10 years.

**Topic: Posterior Mandible Augmentation: Decision Making and Techniques**

Posterior mandibular atrophy is a great dilemma in rehabilitation of partial edentulous patients. Presence of inferior alveolar nerve, muscular activity, thin periodontium, and difficult access pose a threat in the survival of augmentative techniques. In this lecture, recipient site analysis and various localized augmentation techniques including onlay bone grafting, inlay bone grafting, cortical tenting and nerve transposition will be appraised.

**Hands-On Model Workshop: Posterior Mandible Augmentation: Augmentation Techniques**

Analysis of recipient site in posterior mandible and indications for each kind of treatment from simple onlay grafting to nerve lateralization technique will be discussed. In this workshop onlay bone grafting, cortical autogenous tenting, bilateral cortical tenting, and inlay bone grafting will be presented. Techniques for harvesting of bone from lateral side of ramus and mandibular body, and their fixation techniques will be taught.
**Topic 1: Update on the Soft Tissue Grafting**

Periodontal treatment outcome is primarily dependent on proper diagnosis, prognosis and treatment planning. Only after a proper execution of these steps, a desired outcome can be predictably achieved. On a daily basis, restorative dentists face the decision making of whether to bond a denuded root or graft it. What is the best treatment for our patient and why?

The purpose of this presentation will be to discuss the:
- Diagnosis and treatment planning of non-curious cervical lesions.
- Sequence the planning of a combined periodontal-restorative interplay.
- All discussion will be restoratively driven in order to simplify the decision making for a restorative dentist.

**Learning Objectives:**

- To be able to diagnose and predict the outcome of root coverage procedures
- To understand the importance of keratinized tissue around restorations
- To understand perio-restorative sequence algorithm for treating a non-curious cervical lesion
- To discuss alternatives and new advanced in tissue grafting.

**Topic 2: Dental Hygiene: Management of Recession Defects**
Senovita Lopez, R.D.H., B.S., M.A (USA)

Senovita earned a Bachelor's degree at the University of Southern California and a Masters in Leadership and Organizational Studies at Azusa Pacific University. She is a former associate professor and clinical instructor at the University of Southern California in the Department of Dental Hygiene in The Herman Ostrow School of Dentistry. Professor Lopez was presented with the University Teaching Award in 2013. Senovita co-directed the core course of Fundamentals of Clinical Dental Hygiene Practice. She was also a core adjunct instructor for preclinical, clinical and advanced instrumentation skills. Her primary interests are in community outreach and higher education promotion. She mentors students from under represented local communities. Senovita resides in West Covina, California. Her time is spent with her children, family and friends striving for a balanced work - family lifestyle. Senovita is in private practice in both Prosthodontics and Periodontics.

Topic: Addressing common myths and misconceptions relevant to today’s dental hygiene practice

It is well recognized that periodontitis is characterized by inflammation of the supporting tooth structures resulting in destruction of the periodontium. Although initial inflammation is caused by bacteria or specific microorganisms, the severity of disease progression may be influenced by environmental factors and genetic variance. As an integral member of the dental team, it is important that dental hygienists recognize possible disease modifiers. Although thorough scaling and root planing are an essential component of therapy to eliminate or control periodontal pathogens, adjunct therapies should be designed to address influencing factors such as inflammasome-independent processing of interleukin 1 cytokines.

The purpose of this presentation is to review the inflammation process and discuss various management concepts other than plaque and calculus removal in hope to attain oral health.

At the end of the presentation the audience will be able to incorporate existing management auxiliaries to recent IL-1 gene variation evidence to design a more effective and personable management protocol.
Diane Melrose, RDH, BS, MA (USA)
Diane is clinical professor and chair of the Department of Dental Hygiene at the Herman Ostrow School of Dentistry of USC. She has lectured across the United States and abroad and has published extensively on patient education, the disabled patient, and oral hygiene therapy. She has also set up preventive patient education programs for dental offices, hospitals, institutions, and universities.

**Topic 1: Lecture: Stress and Burnout; What we Learned from the Millennial Dental Hygiene Students**

- Define the millennial generation
- Identify the prevalence and main causes of stress and burnout among millennial dental hygiene students
- Review the wellness program and the impact of faculty vs. peer support
- Promote wellness to improve patient safety and quality care

**Topic 2 - Dental Hygiene Hands-On Workshop: Ultrasonics**

- Review proper grasp and fulcrum positioning for power scaling
- Discuss different tip/insert selection
- Discuss tip/insert angulation and adaptation needed with power scaling
- Demonstrate effective working strokes for different types of calculus
- Describe the different power scaling technology
- Enhance your present skill level
- Compare different units and scaling techniques
Seiko Min, DDS (USA)
Dr. Min received his dental degree and PhD in Bone Biology at Nihon University and certificate in Periodontology and MS degree in Craniofacial Biology from USC. He is AAP Balint Orban Finalist in 2013 and 2014, and AAP Lazzarra Fellowship Finalist in 2014, also recipient of Academy of Osseointegration Foundation Research Grant and Osteology Research Grant. He has published several scientific articles and also presented several times at international conference.

**Topic: Soft Tissue Augmentation: Option for gingival recession**

Presentation synopsis: Gingival recession is a common manifestation in most populations. Root surface exposure resulting from gingival recession may also create root caries, dental hypersensitivity, and esthetic problem. The significance of any gingival recession may vary considerably depending on the etiology, extent and associated symptoms in each case. The purpose of this presentation is to provide the attendees with an understanding of the factors relating to the development of gingival recession and how a patient presenting with gingival recession should be managed. Multiple clinical cases will be presented to discuss the diagnostic, surgical techniques needed to achieve the best outcome.

Presentation objectives: Know the etiology of gingival recession, Understand when soft tissue augmentation needed for gingival recession, Rationale for each different soft tissue augmentation techniques
Masayuki Okawa, D.D.S (JAPAN)
1987: Graduated Tohoku Dental University, School of Dentistry
2001: Open and maintain Clinic in Tokyo, Japan
SJCD International: Academic(Scientific) Director
Tokyo SJCD: Director
AMED (USA): Board Member
Japan Academy of Esthetic Dentistry: Certified Dentist
Japan Academy of Gnathology And Occlusion: Certified Dentist

Topic: Application of Minimally Invasive Full Mouth Rehabilitation to Dental Erosion

Recently, favorable results are seen in many esthetic cases with minimally invasive techniques. This became possible due to the development of bio-mimetic, advancement in bonding technique, and treatment using the problem-based approach. In addition, the use of the microscope has allowed us to obtain precise and predictable outcomes.

In this presentation, I wish to explain the acid erosion case, its examination, diagnosis, treatment planning and the treatment in steps together with the results following the concept of Minimally Invasive Full Mouth Rehabilitation.
**Topic: Evidence-based Periodontal Plastic Surgery: Root Coverage**

Presentation synopsis:

This presentation will review the current evidence on root coverage procedures, with an emphasis on predictability, and will summarize the treatment options for recession defects of differing characteristics.

Presentation objectives:

To provide an overview of the various surgical approaches available to treat gingival recession defects, to summarize the current evidence supporting the use of different root coverage procedures, and to highlight the procedures most likely to achieve specific treatment objectives.
Dr. Urban received his DMD degree and subsequently his MD degree from Semmelweis University School of Medicine and Dentistry (Budapest, Hungary) in 1991 and 1996. He completed a residency program in oral surgery at St. Istvan Hospital in Budapest, Hungary (1992-1996). He completed his internship program in Periodontics at UCLA. After he graduated from the Fellowship Program (1999-2000) in Implant Dentistry at Loma Linda University in Loma Linda, California, he was appointed assistant professor the following year. Dr. Urban teaches implant dentistry in the graduate program at Loma Linda University. He is licensed in the state of California (USA) and has a private practice in Budapest, Hungary. Dr. Urban received his PhD degree in Periodontology in 2012 at the University of Szeged, Hungary. He is currently an honorary professor at the University of Szeged. Dr. Urban has published scientific articles and textbook chapters on bone regeneration and soft tissue reconstructive surgery around dental implants. He is an invited speaker internationally in the field of Implant Dentistry.

Topic 1: Vertical and Horizontal Augmentation I
Topic 2: Vertical and Horizontal Augmentation II
Topic 3: Vertical and Horizontal Augmentation III

Vertical and horizontal augmentation presents one of the greatest challenges of bone regeneration in implant dentistry. This is primarily due to the difficulty of the surgical procedure and its potential complications. Patient selection, patient preparation for surgery, precise surgical techniques and postoperative management are the key factors in reducing the rate of bone graft complications. Careful adherence to these factors should result in complications with bone graft healing in less than 3% of the cases. Recent research on vertical and horizontal ridge augmentation will be presented. An exciting, new treatment modality of ridge augmentation treating edentulous atrophic maxillary ridges will be introduced. Utilizing these procedures may lessen the need of harvested autogenous bone and may generally lead to decreased morbidity and therefore increased patient comfort and satisfaction associated with these regenerative procedures.

Presentation Objectives:

• Understand Indications, patient selection and treatment alternatives for vertical and horizontal ridge augmentation.
• Learn a comprehensive approach for the anterior maxillary vertical defect.
• Learn the surgical anatomy of the floor of the mouth and the successful surgical technique of the posterior mandible.
Stephen Wallace, DDS (USA)
with a certificate in Periodontics. He is Associate Professor at the New York University Department of Implant Dentistry and a Diplomate of the International Congress of Oral Implantology and a Fellow of the Academy of Osseointegration. He lectures in the United States and abroad on dental implantology and periodontics. He is the author of journal articles and textbook chapters on implantology and co-editor of sinus elevation textbook released in Italy. Dr. Wallace maintains a private practice limited to Periodontics in Waterbury, CT.

**Topic 1: Maxillary sinus elevation: myth vs reality**

Implant dentistry seems to undergo dramatic changes with new products and techniques being presented for consideration.

Yet there are some things that just seem to resist change. Is it because they are universal truths or are they unsubstantiated myths, driven into our brain by years of repetition? It is time to expose these myths for what they are; misunderstandings, living in the past, false advertising. This presentation will address the myths of 1. The "Gold Standard" of bone grafts, 2. The superiority of evidence from randomized, controlled clinical trials, and the magic of biomimetic technologies.

Objectives: Participants will be exposed to thought provoking comments regarding;

1. The value of autogenous bone in sinus grafting
2. The true size of our evidence-base and
3. The results with biomimetics such as rh-PDGF-bb and BMP-2

**Topic 2 - Hands-On Cadaver Workshop: Maxillary sinus augmentation**

Maxillary sinus elevation has been shown to be the most successful pre-prosthetic surgical reconstructive technique. This has been accomplished through 32 years of collective wisdom on how to perform this procedure with maximum outcomes and minimal complications. This course is designed to give you the diagnostic, technical, and surgical skills necessary to achieve these ends. This will be accomplished through lecture, videos, and a 3-hour cadaver workshop. Course topics will include: Sinus anatomy, graft material selection, transcrestal and lateral window surgical technique, prevention and treatment of complications, and timing of implant placement.

Upon completion of this course participants will:

- Understand the role of evidence in surgical decision-making
- Review sinus anatomy of importance to the surgeon
- Evaluate multiple surgical techniques
- Learn to avoid and treat complications
- Utilize the cadaver experience to increase anatomic awareness and surgical skills
**Hom-Lay Wang D.D.S., M.S.D., Ph D. (USA)**

Dr. Wang is Collegiate Professor of Periodontics, Professor and Director of Graduate Periodontics at the University of Michigan. Dr. Wang published more than 25 book chapters/invited reviews and more than 350 scientific articles. He serves as an Associate Editor for JOMI and Founding Editorial board member for Clinical Advances in Periodontics, Editorial Board member for the JP, COIR, IJPRD, JCP and many others. Dr. Wang is the recipient of Morton L. Perel Annual Award for Dental Implant Educator (2007), AAP University of Michigan Outstanding Teaching and Mentoring in Periodontics (2010), and ITI Andre Schroeder Research Prize (2014) and many other awards.

**Topic 1: Current Advancements in Transcrestal and Lateral Window Sinus Augmentation**

Abstract: This lecture addresses common implant complications, both biologic and biomechanical aspect as well as the approaches to avoid these problems before they occur. A decision tree of how to manage these complications will be presented. The pros and cons of techniques used to treat implant diseases/complications such as chemotherapeutic agents, apically positioned flap, implant surface detoxification, implantoplasty, guided bone regeneration, soft tissue grafts, implant removal as well as re-implantation will be discussed.

**Learning Objectives:**

- Recognize etiologic factors that may contribute to implant complications
- Know how to avoid implant complications before it occurs
- Understand decision tree used to select treatment modalities for the management of implant complications
- Learn how to properly manage peri-implantitis

**Topic 2: Current Advances in Periodontal Regeneration**

Periodontal regeneration has been used to repair and/or regenerate various periodontal related defects. This presentation will focus on discussing the materials/techniques that have been used and have shown promising results. Data from controlled human clinical cases pertaining to these products will be presented. A detailed description of surgical techniques and how these materials can be used in periodontal surgery will be demonstrated. Current advances in periodontal regeneration such as decision tree for selecting treatment modalities, tissue engineering and use of bioactive agents will also be explored.

**Hands-On Cadaver Workshop: The Art and Science of Bone Augmentation**

Implant site development is performed at the time of extraction as well as during implant placement to prevent ridge resorption as well as to augment ridge width and height for better implant placement and final esthetic appearance. Bone grafting, either horizontally or vertically, is often needed to facilitate an ideal anatomical and prosthetic position implant placement. Currently, they are many techniques available for horizontal bone augmentation, these include but not limited to socket augmentation, immediate implant placement, guided bone regeneration (i.e., sandwich bone augmentation), monocortical only graft (either auto- or allo-genic), and ridge split/expansion. This presentation will briefly discuss these approaches. However, a major emphasis will be placed on a “decision tree” that can assist clinicians choose the most predictable procedure for socket management (e.g., Colla-plug and PTFE techniques) and horizontal bone augmentation (e.g., GBR with tenting and sandwich bone augmentation). In addition, recent advancements in these areas will also be presented.
Homayoun H. Zadeh, DDS, PhD (USA) (Symposium Chair)
Dr. Zadeh is Associate Professor and director of the Advance Periodontology program at the Ostrow School of Dentistry of USC. Dr. Zadeh is a graduate of USC. He completed advanced clinical education in Periodontology and earned his PhD degree in Immunology from the University of Connecticut. He is a Diplomate of the American Board of Periodontology. He serves as the editorial reviewer for several scientific journals. Dr. Zadeh also leads a research team at USC Laboratory for Immunoregulation and Tissue Engineering (LITE). He maintains a part-time private practice limited to Periodontology and Implants in Southern California.


A variety of soft tissue and bone augmentation procedures have been employed for treatment of soft tissue and ridge defects. Current techniques have a number of limitations including, scar formation at recipient sites due to surface incisions, relapse of recession due to muscle pull during healing, wound dehiscence and graft exposure. This workshop will discuss the myriad of applications of VISTA for soft tissue and bone augmentation.

Upon completion of this course participants will know:
• Rationale and step-by-step technique of VISTA
• VISTA for soft tissue augmentation and papilla augmentation around teeth and implants
• VISTA for alveolar ridge augmentation: GBR, tenting screws, titanium mesh
• Application of autogenous tissue, allograft, xenograft and growth factors for soft tissue and bone augmentation.
Workshops

The four hands-on cadaver workshops will include theoretical lectures, followed by hands-on workshops on cadaver heads or anatomic models.

Four all-day programs with cadaver workshop components will be conducted at the Herman Ostrow School of Dentistry of USC. Using slide and video presentations, surgical demonstrations, and hands-on experience, surgical approaches will be reviewed and practiced in detail in a unique hands-on educational environment using fresh un-embalmed cadavers. In order to create the best possible learning environment and afford each participant maximum hands-on time, class-size is limited and each laboratory station will be assigned only two participants at any time. In addition to the listed course director for each workshop, the hands-on labs will be instructed and moderated by experienced faculty. Throughout this course, participants will be exposed to surgical techniques and concepts that will further his/her ability to more successfully manage the challenges posed in the treatment of compromised patients. The four intense all-day programs are structured with lectures in combination with demonstration of surgical techniques on cadavers by each course director, which will be followed by course participants on cadaver specimens provided.

In addition, four hands-on workshops on anatomic models will be conducted at the Biltmore Hotel on Saturday January 24 afternoon.

**Hands-On Cadaver Workshop**

**Wednesday, January 21, 2015, 8:00am - 5:00pm - Herman Ostrow School of Dentistry of USC**

**Vestibular Incision Subperiosteal Tunnel Access (VISTA): for minimally invasive soft tissue and bone augmentation**

**Speaker: Dr. Homa Zadeh**

A variety of soft tissue and bone augmentation procedures have been employed for treatment of soft tissue and ridge defects. Current techniques have a number of limitations including, scar formation at recipient sites due to surface incisions, relapse of recession due to muscle pull during healing, wound dehiscence and graft exposure. This workshop will discuss the myriad of applications of VISTA for soft tissue and bone augmentation.

**Upon completion of this course participants will know:**

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- VISTA for soft tissue augmentation and papilla augmentation around teeth and implants
- VISTA for alveolar ridge augmentation: GBR, tenting screws, titanium mesh
- Application of autogenous tissue, allograft, xenograft and growth factors for soft tissue and bone augmentation.

**Hands-On Workshop**

**Wednesday, January 21, 2015, 8:00am - 5:00pm - Herman Ostrow School of Dentistry of USC**

**Harnessing the power of digital dentistry for surgeons and restorative dentists**

**Speaker: Dr. Richard Lin**

Synopsis: Coming Soon!

**Upon completion of this course participants will know:**

Coming Soon!
Hands-On Cadaver Workshop
Thursday, January 22, 2015, 8:00am - 5:00pm - Herman Ostrow School of Dentistry of USC
Vertical ridge augmentation
Speaker: Dr. Istvan Urban
Synopsis coming soon!
Upon completion of this course participants will be able to:
Coming soon!

Hands-On Model Workshop
Saturday, January 24, 2015, 1:00pm - 5:00pm - Millennium Biltmore Hotel Los Angeles
Implant provisionalization
Speaker: Dr. George Cho
“Implant provisional restorations”- An easy technique will be taught in detail to fabricate implant provisional restorations utilizing a screw retained restoration. This technique is based on a technician completing a full contour implant screw retained restoration. The full contour wax-up will be reproduced in a base-matrix technique so that a provisional restoration can be reproduced identical to the full-contour wax-up. Please bring in any implant cases that currently in progress that has a completed wax-up only on a gold cylinder, you will also need to bring a corresponding lab analog and temporary cylinder.

Hands-On Model Workshop
Saturday, January 24, 2015, 1:00pm - 5:00pm - Millennium Biltmore Hotel Los Angeles
All-on-4 implants and restoration with monolithic zirconia
Speaker: Dr. Lyndon Cooper
Synopsis coming soon!

Hands-On Model Workshop
Saturday, January 24, 2015, 1:00pm - 5:00pm - Millennium Biltmore Hotel Los Angeles
Immediate implant and soft tissue augmentation
Speaker: Dr. Thomas Han
Synopsis coming soon!

Hands-On Model Workshop
Saturday, January 24, 2015, 1:00pm - 5:00pm - Millennium Biltmore Hotel Los Angeles
Posterior mandibular augmentation: Augmentation techniques
Speaker: Dr. Arash Khojasteh
Posterior mandibular atrophy is a great dilemma in rehabilitation of partial edentulous patients. Presence of inferior alveolar nerve, muscular activity, thin periodontium, and difficult access pose a threat in the survival of augmentative techniques. In this lecture, recipient site analysis and various localized augmentation techniques including onlay bone grafting, inlay bone grafting, cortical tenting and nerve transposition will be appraised.
Hands-On Cadaver Workshop
Sunday, January 25, 2015, 8:00am - 5:00pm - Herman Ostrow School of Dentistry of USC
Horizontal ridge augmentation
Speaker: Dr. Hom-Lay Wang
This hands-on cadaver workshop will present the latest advances in sinus augmentation, either osteotome or lateral window approach, to avoid sinus membrane perforation. The participants will provide the basic and most updated concepts that are important in planning your sinus lift procedures such as how to use CBCT to better prepare an overall treatment plan to avoid sinus complications. The participants will also have a detail understanding of ABC sinus augmentation classification, surgical set-up, anatomical structures and pathology related to the sinus, current techniques used and post-operative management as well as how to deal with complications. The available bone grafts/agents used in sinus augmentation to promote soft and hard tissue healing will be discussed. In addition, live surgeries as well as hands-on exercise on cadaver will be used to illustrate how to properly perform sinus augmentation procedure, either osteotome (e.g., internal crestal) or lateral window approach.
Upon completion of this course participants will be able to:
• Understand how to use ABC sinus augmentation classification to better plan your sinus treatment
• Be able to read a CBCT scan to better plan your case and avoid any potential complications
• Familiarize with anatomy, oral pathology, indications, contraindications, objectives and techniques for sinus augmentation procedure
• Know when to use which sinus augmentation technique
• Be able to perform and understand sinus lift procedures (transcrestal and lateral window approach)

Dental Hygiene Forum: Optional Dental Hygiene Hands-On Workshop
Saturday, January 24, 2015, 2:30pm - 5:30pm - Millennium Biltmore Hotel Los Angeles
Ultrasonics
Speaker: Diane Melrose, RDH, BS, MA
Upon completion of this course participants will know:
• Review proper grasp and fulcrum positioning for power scaling
• Discuss different tip/insert selection
• Discuss tip/insert angulation and adaptation needed with power scaling
• Demonstrate effective working strokes for different types of calculus
• Describe the different power scaling technology
• Enhance your present skill level
• Compare different units and scaling techniques

Hands-On Cadaver Workshop
Sunday, January 25, 2015, 8:00am - 5:00pm - Herman Ostrow School of Dentistry of USC
Maxillary sinus augmentation
Speaker: Dr. Steve Wallace
Maxillary sinus elevation has been shown to be the most successful pre-prosthetic surgical reconstructive technique. This has been accomplished through 32 years of collective wisdom on how to perform this procedure with maximum outcomes and minimal complications.
This course is designed to give you the diagnostic, technical, and surgical skills necessary to achieve these ends. This will be accomplished through lecture, videos, and a 3-hour cadaver workshop.
Upon completion of this course participants will be able to:
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• Review sinus anatomy of importance to the surgeon
• Evaluate multiple surgical techniques
• Learn to avoid and treat complications
• Utilize the cadaver experience to increase anatomic awareness and surgical skills
EVENT LOCATION
Millennium Biltmore Hotel Los Angeles
506 South Grand Avenue., Los Angeles, CA 90071-2607
• Right in the heart of downtown Los Angeles
• 25 minutes from Los Angeles International Airport
• Minutes away from CA-110, I-10, I-101, and I-5.
• Reservation: 213.612.1575
• Group Code: 1501PERIOS
• Website: www.millenniumhotels.com/millenniumlosangeles
• Book your rooms early! Special guest room rate is available for enrollees for 40th USC Periodontal & Implant Symposium. Book prior to January 9, 2015 to receive $135 rate for Classic Room (single or double) and $175 for Club Room. Or book your room online at: www.millenniumhotels.com/millenniumlosangeles (Group Code 1501PERIOS)

QUESTIONS?
Please contact Herman Ostrow School of Dentistry of USC Office of Continuing Education by one of the following methods:
Mail: 925 W. 34th St. Room 201J., Los Angeles, CA 90089
Telephone: 213-821-2127 Fax: 213-740-3973
Email: cedental@usc.edu Website: www.uscdentalce.org

ONLINE REGISTRATION AVAILABLE AT: WWW.USCDENTALCE.ORG
LOOK FOR USC PERIODONTAL & IMPLANT SYMPOSIUM ON FACEBOOK!
Registration Form

39th Annual USC International Periodontal & Implant Symposium. January 22 - 26, 2014. Please mail or fax your registration form to: 925 W. 34th Street, Room 201J. Los Angeles, CA 90089-0641 • Phone: 213.821.2127 • Fax: 213.740.3973
Email: cedental@usc.edu • Online reservation: www.uscdentalce.org

First Name: ________________________ Last Name: ________________________
Title: ________________________ Specialty: ________________________
Address: ________________________ City: ________________________ State: ________________________ Zip: ________________________
Business Phone: ________________________ Additional Phone (Optional): ________________________
Email: ________________________ Fax: ________________________

Additional Enrollees: ____________________________________________________________

☐ Friday - Saturday, January 23 - 24, 2015 - General Sessions. (Millennium Biltmore)
Before 12/1/14: Dentist $545, Allied Professional $345, Faculty $345, Student $125
12/1/14 - 1/5/15: Dentist $625, Allied Professional $425, Faculty $425, Student $145
After 1/5/15: Dentist $695, Allied Professional $475, Faculty $475, Student $195
* Tuition includes option to attend Dental Hygiene Forum and cocktail reception on Friday, January 23, 5 pm - 7 pm

☐ Saturday, January 24, 2015 - Dental Hygiene Forum (Millennium Biltmore)
Before 12/1/14: Dentist and Allied Professional $155, Faculty and Student $95
12/1/14 - 1/5/15: Dentist and Allied Professional $175, Faculty and Student $115
After 1/5/15: Dentist and Allied Professional $195, Faculty and Student $135

☐ Wednesday, January 21, 2015, 8:00am - 5:00pm. (USC)
Hands-On Cadaver Workshop: VISTA Soft Tissue Augmentation (Homa Zadeh)
Hands-On Workshop: Harnessing the Power of Digital Dentistry (Richard Lin)
Before/After 12/1/14: Dentist $1,895/$1,995

☐ Thursday, January 22, 2015, 8:00am - 5:00pm. (USC)
Hands-On Cadaver Workshop: Vertical Ridge Augmentation (Istvan Urban)
Before/After 12/1/14: Dentist $1,895/$1,995

☐ Saturday, January 24, 2015, 1:00pm - 5:00pm. (Millennium Biltmore)
Hands-On Workshop I: Implant Provisionalization (George Cho)
Hands-On Workshop II: All-On-4 Implants and Restoration with Monolithic Zirkonia (Lyndon Cooper)
Before/After 12/1/14: Dentist $495/$565

☐ Saturday, January 24, 2015, 3:00pm - 5:00pm. (Millennium Biltmore)
Optional Dental Hygiene Hands-On Workshop (Diane Melrose)
Before/After 12/1/14: Dentist and Allied Professional $105/$125

☐ Sunday, January 25, 2015, 8:00am - 5:00pm. (USC)
Maxillary Sinus Augmentation (Steve Wallace)
Hands-On Cadaver Workshops
Before/After 12/1/14: Dentist $1,895/$1,995

☐ Friday, January 24, 2015, 7:00pm - 9:00pm. (Millennium Biltmore)
Join us for an evening of entertainment, food and drinks on Friday night! - $175 ($125 before 12/01/14)
An auction will be conducted to support USC Advance Periodontology Renovation.

☐ Check Enclosed (Payable to USC School of Dentistry)
Visa ☐ Mastercard ☐ Card Number: ________________________
Expiration Date: ________________________ Signature: ________________________

Tuition includes course materials, continental breakfast, lunch, and refreshment during breaks.

Refunds are granted only if a written cancellation notification is received at least 21 days before the course. 50% of the tuition minus processing fee will be refunded if cancellation occurs within 14 days before this course. No refund is granted afterwards. A $75 fee is withheld for processing. For additional registrations, xerox this form and send.

Please mail or fax your registration form to:
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