37th Annual USC International Periodontal and Implant Symposium

Symposium Theme
The Decision Tree

Millennium Biltmore Hotel Los Angeles
General Sessions: Friday - Saturday, January 27 - 28, 2012
Dental Hygiene Forum: Saturday, January 28, 2012
Dental Hygiene Forum Optional Hands-On Workshop: Saturday, January 28, 2012

Herman Ostrow School of Dentistry of USC
Hands-On & Cadaver Workshop II: Thursday, January 26, 2012
Welcome

Dear colleagues and friends:

We are pleased to invite you to attend the 37th International USC Periodontal & Implant Symposium. The theme of this year’s symposium will be: “The Decision Tree”. The concept behind the theme is that for every clinical scenario, clinicians are faced with a number of decisions to select an appropriate diagnostic, therapeutic technique, protocol, material and timing. Decision trees are commonly used in many fields in order to express and communicate the process from the beginning to the final outcome. A panel of internationally renowned experts will critically examine some of the most clinically-pertinent areas and present their choices of material, techniques and protocols organized in decision trees. These decision trees will be distributed to symposium attendees and are extremely useful to clinicians in the daily care of our patients. The program boasts five days with a diverse range of educational opportunities. In addition to the two days of general sessions, there are four all-day programs with hands-on workshops on models and cadavers. 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.

We are excited about our new venue for the symposium, which is the historic Biltmore Hotel in downtown Los Angeles. We hope to see you all in Los Angeles in January 2012.

Homayoun Zadeh, DDS, PhD
Symposium Chair and Moderator
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Speakers

Myron Nevins, DDS  (USA)  (Keynote Web Presentation)
Dr. Nevins is the Editor of the International Journal of Periodontics & Restorative Dentistry and Associate Clinical Professor of Periodontology at the Harvard School of Dental Medicine. Dr. Nevins is a past President of the American Academy of Periodontology and a former Director and Chairman of the American Board of Periodontology where his contributions have been recognized with the Gold Medal and the Master Clinician Awards. He is a Professor of Periodontics at the University of Pennsylvania School of Dentistry. He maintains a private practice limited to Periodontics and Implantology in Swampscott, Massachusetts. Dr. Nevins is the founder and President of Perio Imp Research, Inc.

Leo and Sydelle Ward Foundation Endowed Keynote Lectureship

Topic: Long term definitive periodontal therapy: Clinical approaches and evidence of success

All periodontal therapeutic decisions must be predicated on preserving and improving the esthetic, phonetic and functional dentition as perceived by both the therapist and the patient. Although it is impossible to circumvent the modifiers of physical health, patient behavior, financial capabilities and performance variability as they pertain to treatment modalities, there must be an end point goal of treatment that comes to fruition.

This lecture will be directed toward a definitive goal of periodontal therapy for patients with chronic adult periodontitis. Topics to be discussed include pocket management, periodontal regeneration, furcation treatment and dental implants. The critical question: What would we do if it was our own dentition?

Objectives:
- Identify the criteria of successful treatment planning for the periodontally compromised patient
- Appreciate the values of tissue engineering for regenerative procedures
- Identify the definition of an ideal maintenance program
- Learn to coordinate interdisciplinary treat planning
Speakers

Mauricio G. Araújo, DDS, MSc, PhD (BRAZIL)

Dr. Araújo is a Periodontist working both in private practice and at The State University of Maringa, Parana, Brazil. He completed his PhD at The University of Gothenburg, Sweden in 1998. He is the Chairman of the Perio/Implant Research Unit, State University of Maringá and Senior-researcher at the Department of Periodontology, Goteborg University. He has together with his co-workers published groundbreaking research in the fields of ridge alterations following tooth extraction, ridge preservation, bone formation in extraction sockets and immediate implant placement. He is an ITI Fellow, the ITI Chairman in Brazil and an Osteology Foundation Board member. He is a member of the editorial board of several journals.

Topic: Management of the extraction socket

The current presentation will describe a series of studies in humans and animals regarding the preservation of the alveolar process dimensions following tooth extraction. Studies will be presented which have evaluated the dimensional alterations that occur in the alveolar process after tooth extraction. It will be demonstrated that following tooth extraction, the alveolar process undergoes a pronounced alteration that is more pronounced in the buccal than in the lingual/palatal compartment. Thus, various studies that evaluated different putative ridge preservation techniques, including immediate implant placement and/or grafting, will be presented. The outcome of such techniques will be discussed.

Objectives:

- Describe the alveolar process/ridge
- Describe the socket healing process
- Choose from different ridge preservation techniques
Speakers

**Sherry Burns, RDH, BS (USA)**

Ms. Burns is the Global Education Consultant at Hu-Friedy. She had formerly served as Associate Professor of Periodontics at the University of Missouri-Kansas City, and was also a Dental Hygiene Instructor at Johnson County Community College in Overland Park, Kansas. She is internationally acclaimed as an expert on instrument design, sharpening, and clinical techniques. She is the original designer of the “After Five” curettes, as well as others. She created the simplified sharpening technique taught around the world titled “It’s About Time To Get On The Cutting Edge.” Her distinguished career started with a B.S. Degree in Dental Hygiene from the University of Michigan and a Master’s Degree in Dental Hygiene Education from UM-KC.

**Topic: Dental Hygiene Forum: Partners in perio: Hand instruments and ultrasonic scalers**

The current trend toward the use of power scalers to increase productivity and profitability, and to decrease physical trauma and discomfort for both the clinician and the patient will be explored. Greater results can be achieved by combining some of the newer hand instrument designs with various magnetostrictive inserts and/or piezoelectric tips to solve the inevitable challenges of mechanically treating "invisible" root surfaces with minimal stress and strain.

**Upon completion of this workshop, the participant will be able to:**

- Cite at least 3 reasons why clinicians need to have a choice of hand instruments available along with ultrasonic inserts or tips.
- List contraindications/considerations for use of ultrasonic scalers.
- Describe the ergonomic impact on clinicians that resulted from historical changes in the delivery of dental treatment.
- Select hand instruments, magnetostrictive inserts and piezoelectric tips based upon the periodontal status of the patient, the challenges of root formations, and the ergonomic needs of the clinician.

**Topic: Optional Hands-On Workshop: The 5 keys for working with ease: Effective utilization of hand instruments**

This course will focus on the interrelationship between cumulative trauma disorders and instrumentation techniques. A variety of “hands-on” activities, utilizing an array of hand instruments with typodonts will give participants the opportunity to discover new approaches to providing routine non-surgical periodontal procedures to help reach peak performance with minimal stress and strain. Emphasis will be directed upon new, contemporary instruments designed specifically for “sit down” delivery vs. traditional designs for “stand up” application.

**Upon completion of this workshop, the participant will be able to:**

- Discuss methods to reduce physical stress encountered while practicing chairside:
  - a) posture
  - b) method of delivery
  - c) patient-positioning
- Compare and contrast options for instruments used in the non-dominant hand.
- Analyze effective adaptation and angulation in periodontal procedures.
- Differentiate between force and biomechanical stress in instrumentation techniques.
Bobby Butler, DDS (USA)
Dr. Butler maintains a periodontal practice in downtown Seattle and has been an Affiliate Clinical Faculty member at the University of Washington. His practice reflects his emphasis on aesthetic microsurgery techniques, regenerative periodontal therapy, and implant aesthetics. He has lectured to the Academy of Osseointegration, American Dental Association, American Academy of Periodontology, International Association of Dental Research, Western Society of Periodontology and numerous other dental societies. He has published extensively in peer-reviewed journals, as well as book chapters.

Topic: Increasing esthetic implant predictability with connective tissue grafting

Successful Implants in the Esthetic Zone are judged on clinical parameters and the final cosmetic appearance. Implants are extremely predictable with respect to osseointegration, however esthetic results can be variable. Long-term stability of implants is directly correlated to bone levels and volume. Many anterior teeth that are replaced have minimal osseous volume with a thin periodontal biotype. The soft tissue volume is also often very thin in these patients. Several treatment scenarios have been proposed such as extraction and augmenting in multiple procedures to ensure a thick osseous volume greater than or equal to 2mm. Immediate implant placement can avoid multiple procedures but this makes ensuring the facial osseous volume unpredictable. This presentation will focus on masking the thin osseous biotype with autogenous connective tissue grafts at the time of immediate implant placement. The routine use of CTGs greatly improves consistent esthetics results.

Objectives:
- Review the advantages of immediate implant placement
- Present and demonstrate the lack of horizontal volume in cases without connective tissue grafts
- Present predictable connective tissue graft procedures that transform thin biotypes into thicker more stable biotypes with optimal esthetic results.
Speakers

Domenico Cascione MDT, BS (USA)
Mr. Cascione is currently Clinical Assistant Professor at the Ostrow School Of Dentistry of USC. He has obtained his primary education in Bari (Italy), where he was also certified as a Dental Technologist (CDT). He has carried out metallurgy research attained specialist status in dental metallurgy. He is a Master Ceramist, focusing on implant prosthetics and complex esthetic rehabilitation. He is the Director of Oral Design Center Laboratory in Los Angeles California. He is a winner of award 2007 Judson C. Hichey in the research category in the Journal of Prosthetic Dentistry. He is author and coauthor of several articles.

Topic: Artistry & Cad/Cam technology in modern implant dentistry

The objective of this lecture is to present a systematic approach based on the technician’s expertise of principles and techniques, in order to obtain predictable results with challenging implant cases. Tissue management criteria on implant restoration with a novel approach for noninvasive pontic site development, and case presentation using art and CAD/CAM technology.

Objectives:
- Describe principles and techniques in order to obtain predictable results on the implant challenging cases.
- Describe tissue management criteria on the implant restoration for noninvasive pontic site development.
- Understand the importance of proper diagnosis, treatment planning, and communication is emphasized.
Sillas Duarte, DDS (USA)
Dr. Duarte is Associate Professor for the Department of Restorative Sciences at Ostrow School of Dentistry of University of Southern California. He is the editor-in-chief of Quintessence of Dental Technology (QDT), served on the editorial boards of other journals, and has lectured and published nationally and internationally on esthetic dentistry and adhesion. He has been involved in teaching cutting edge clinical techniques and technologies related to esthetic and adhesive dentistry. His research focuses on bonding to dental structures, composites, and ceramics.

Topic: New advances in bonded restorations

Performing successful and satisfying bonded restorations is still dependent on numerous factors, especially with respect to material selection and marginal integrity. Impairment of marginal integrity can produce microleakage, post-operative sensitivity, discoloration, and debonding, all reducing the longevity of the restoration. This presentation provides a systematic and scientific approach for enhancing bonded esthetic restorations based on original research data with special emphasis on techniques, post-operative sensitivity control, and new materials design and selection.

At the end of the course the participants will be able to:
- Understand the causes of adhesive failures and treatment post-operative sensitivity
- Employ various adhesive protocols
- Select and employ novel esthetic adhesive materials
David Garber, DMD (USA)
Dr. Garber is one of the internationally recognized multidisciplinary educators well-known as “Team Atlanta.” He is a past president of the American Academy of Esthetic Dentistry and has served on the boards of both the AAED and the American Academy of Fixed Prosthodontics. Dr. Garber is a dual trained clinician and professor in the Department of Periodontics, as well as in the Department of Oral Rehabilitation at the Medical College of Georgia. He is a Clinical Professor in the Department of Prosthodontics at Louisiana State University, and a Clinical Professor in the Department of Restorative Dentistry at the University of Texas in San Antonio.

Topic: A defined algorithm for implant success in the esthetic zone

With the advent of new technologies, techniques and materials the ability to replace missing teeth with the form, function and beauty of the natural dentition is now possible. Resin bonded bridges, porcelain fused to metal and all ceramic restorations as well as implants can be offered as solutions to patients suffering from the loss of teeth in the “Esthetic Zones.”

With any and all of these procedures, in order to attain a successful outcome, the focus must be the framing of the restoration within the confines of the lip and gingiva to provide for ideal proportion and beauty in the final restoration. Therefore, any restorative endeavor in this region must entail the foundation of a beautiful soft tissue frame and the construction of harmony of the gingival scallop between the restorations, the adjacent dentition and the border of the lip perimeter.

This presentation will focus on a defined algorithm for the interdisciplinary team of the restorative dentist, periodontist and orthodontist to successfully reconstruct the soft tissue foundation for all of these restorative options in anterior tooth replacement. The diagnosis of deficiencies as well as the varied treatment options will be discussed in detail. This includes periodontal crown lengthening, esthetic periodontal plastic soft tissue grafting procedures as well as prescription adjunctive orthodontic tooth movement to manipulate the soft tissue foundation prior to or subsequent with the restorative options of implants, bridges, or pontic replacement.

Course Objectives Include being able to answer the following questions:--
- What are the risk factors in anterior implant therapy?
- What are the four most important diagnostic components leading to a successful treatment design for an esthetic restoration?
- How and when to successfully incorporate minimally invasive protocols?
- How do new Macro and Micro-geometry of implant designs affect treatment planning?
- How do new Digital and CAD/CAM technology optimize minimally invasive anterior implant therapy?
- How to integrate abutment selection and new ceramic components with soft tissue augmentation procedures to create the most esthetic zone of emergence for our implant restorations?
Speakers

Gerhard Iglhaut, DDS (GERMANY)
Dr. Iglhaut earned his dental degree, as well as specialty certificates in Oral Surgery, Oral Implantology (DGI) and Periodontology (EDA) at the Justus Liebig University of Giessen, Germany. Dr. Iglhaut is president-elect of the German Association of Oral Implantology (DGI). He is currently a lecturer in Oral Implantology at the Steinbeis-University in Berlin and the Georg-August-University in Göttingen.

Topic: General Sessions: Shell technique – A new minimal invasive approach in horizontal and vertical Bone Augmentation

Ridge Augmentation of severe alveolar deficiencies often results in a technique sensitive and traumatic procedure demanding the oral surgeon and patient. An innovative shell-technique based on rigid and biodegradable materials with ultrasonic application seems to be a new approach to avoid harvesting and fixation of autogenous bone block grafts. One of the most challenging problems during surgery is the proper fixation of bone augmentation materials and membranes or unfavorable access to the surgical site.

Since 2004 a new ultrasonic and degradable system (Sonic Weld Rx) was used in craniofacial osteosyntheses. This biodegradable osteosynthetic material (50:50 poly D, L-lactid acid – PDLLA Resomer 208) allows the very simple ultrasonic fixation of resorbable plates with higher stability compared to screw fixation. The time required for application is considerably shortened (50%) as no thread cutting is necessary. A second surgical procedure for removal of screws, pins or membranes is left undone.

Objectives:
- Very easy and stable ultrasonic fixation of membranes and bone grafts with resorbable pins by Bone Welding
- Avoiding disadvantage of difficult handling and traumatic procedures of bone grafting and graft fixation
- Minimal-invasive horizontal and vertical bone augmentation by rigid fixation of biodegradable plates and/or membranes

Topic: Hands-On Cadaver Workshop #2: Innovative technique for ridge augmentation using SonicWeld Rx rigid resorbable barrier system

Conventional techniques for three-dimensional augmentation of the alveolar ridge require a rigid scaffold for stabilization of the graft material. A variety of techniques and material have been described, each with their own limitations. This presentation will introduce a novel technique for stabilization of graft material using a resorbable rigid membrane and fixation system for ridge augmentation. This approach utilizes the Resorb-X polymer as a totally new method of cranio-maxillofacial applications which consists of pure poly D, L-lactic acid (PDLLA) to isolate an osseous defect for guided bone regeneration (GBR). The advantages result from achieving an extremely stable and space preserving membrane for GBR. Dr. Iglhaut describes the science, rationale, as well as the step-by-step techniques.

Objectives:
- Components of the SonicWeld Rx rigid resorbable barrier system
- GBR technique using SonicWeld
- Flap design and management
Speakers

Sascha A. Jovanovic, DDS, MS (USA)
Dr. Jovanovic was formally trained in Periodontics at UCLA School of Dentistry, in Implant Dentistry at Loma Linda University and in Prosthodontics at University of Aachen, Germany, and holds a Master of Sciences degree in Oral Biology from UCLA. He specializes in dental implant therapy, is a lecturer at UCLA and is the Academic Chair of gIDE Education Institute. He is the past-president of the European Association for Osseointegration (EAO) and a former board member of the Osseointegration Foundation (OF). He teaches worldwide and has published over 60 articles and book chapters.

Topic: Clinical guidelines for immediate implant placement

Abstract Coming Soon.
Speakers

Baldwin Marchack, DDS, MBA (USA)

Dr. Marchack graduated from the Herman Ostrow School of Dentistry of USC and received his MBA from UCLA. He is currently President of the American Prosthodontic Society, immediate Past-President of the Pacific Coast Society for Prosthodontics, and Past-President of the American Academy of Esthetic Dentistry. He is the Vice-Chair of the Editorial Council for the Journal of Prosthetic Dentistry, and serves on the Board of Councilors of the Herman Ostrow School of Dentistry of USC. He is the author of numerous articles and has presented over 300 lectures nationally and internationally. Dr. Marchack maintains a private practice in Pasadena, California, with an emphasis on esthetic, restorative and implant dentistry.

Topic: Material selection complex implant restorations

Patients today are more informed about dental implants, and their expectations are for functionally and esthetically pleasing implant restorations that mimic natural teeth with healthy looking tissues.

In 2009, Dr. Marchack successfully copyrighted “The Implant Abutment Decision Tree” which includes flowcharts to simplify the decision making process when clinicians arrive at the restorative phase of a patient’s implant treatment. Dr. Marchack will share these flowcharts in this presentation.

The presentation will focus on principles and guidelines for selecting appropriate abutments and designing definitive prostheses for the single posterior implant, single anterior implant, and multiple implants to achieve optimum implant restorations. The presentation promises to be of interest to both the experienced and the novice practitioner. It will result in effortless decision making as it enables the restorative dentist to collaborate with the surgeon and direct the laboratory technician in the design of each partially or fully edentulous implant situation.

Objectives:

- How to analyze clinical conditions for appropriate abutment selection for the single implant
- How to analyze clinical conditions for appropriate prosthesis design for multiple implants
- How the restorative dentist can better communicate with the surgeon and the laboratory technician
Speakers

Jacinthe M. Paquette, DDS (USA)
Dr. Paquette maintains a full-time private prosthodontic practice in Newport Beach, California. She is a Diplomate of the American Board of Prosthodontics and a Fellow of the American College of Prosthodontists. She currently serves on the Editorial Council of the Journal of Prosthetic Dentistry and on the Executive Council of the Pacific Coast Society for Prosthodontics and the American Academy of Esthetic Dentistry.

Topic: Simplifying the complexities of implant treatment planning to delivery

Today’s sophisticated dentistry can often provide patients numerous treatment options toward their care. In many instances conditions which were once considered unachievable, can be treated through a multidisciplinary approach providing the patient with a sound esthetic and stable solution to their problem. The challenge for the conscientious clinician becomes not only which of the treatment options is best but how to get there. This presentation will highlight a tiered approach to this decision-making process and share a systematic outline to creating a plan that is well coordinated, executed, and sequenced to meet each individual patient’s needs.

Objectives:

- Outline, from diagnosis to completed treatment, the decisions and options for the individual presenting dental conditions
- Review the considerations necessary to evaluate the hard and soft tissue framework around natural teeth and/or dental implants toward an esthetic end result
- Illustrate how the power of provisionalization can assist in diagnosis, treatment sequencing, and patient management
- Highlight the psychology of care and the importance of the patient experience in complex treatments toward final treatment success
Anna M. Pattison, RDH, MS (USA)
Ms. Pattison received her B.S. Degree in Dental Hygiene from USC in 1967 and her M.S. in Dental Hygiene from Columbia University the following year. She is currently an Associate Professor and former Chair of the Department of Dental Hygiene at USC. Mrs. Pattison is the co-author of the textbook Periodontal Instrumentation and has contributed to the last five editions of Carranzas (previously Glickman's) Clinical Periodontology.

Topic: Dental Hygiene Forum: Decision tree for periodontal instrumentation

Abstract Coming Soon.
Michael A. Pikos, DDS (USA)

Dr. Pikos graduated with honors from The Ohio State University. He completed an internship at Miami Valley Hospital and residency training in Oral & Maxillofacial Surgery at the University of Pittsburgh, Montefiore Hospital. Dr. Pikos is founder and CEO of the Pikos Implant Institute teaching advanced bone and soft tissue grafting courses with more than 2400 alumni from all 50 states and 32 countries. Dr. Pikos maintains a private practice limited exclusively to implant surgery in Palm Harbor, Florida.

Topic: Alveolar ridge regenerative strategies: Clinical application and performance of mesh particulate autogenous, allogeneic and xenograft substrates with bioactive modifiers

Three dimensional loss of soft and hard tissue alveolar ridge volume compromises functional and esthetic implant reconstruction, and creates a myriad of surgical and prosthetic challenges for the implant team.

This clinical based presentation will feature reverse tissue engineering and Digitally Guided Bone Augmentation™ approach for alveolar ridge regeneration integrating classic clinical diagnostic protocols with cone beam CT and the latest in hard and soft tissue surgical techniques. It will focus on comparing and contrasting the use of both removable and non-removable mesh, bioactive modifiers (BMP2, PDGF and PRGF), along with particulate autogenous, allograft and xenograft substrates.

Objectives:

- Understand the concept of and reverse tissue engineering and Digitally Guided Bone Augmentation™ for perio prosthetic driven implant reconstruction.
- Compare the use of both titanium mesh and non removable mesh for particulate graft alveolar reconstruction.
- Understand and appreciate the application of CBCT technology with 3-D alveolar ridge reconstruction.
Speakers

Fernando Rojas-Vizcaya, DDS, MS (SPAIN)

Dr. Rojas-Vizcaya maintains a private practice limited to implant surgery and prosthodontics, and is the founder of the Mediterranean Prosthodontics Institute in Castellón, Spain. He also holds a position as Adjunct Assistant Professor in the Department of Prosthodontics in the University of North Carolina at Chapel Hill. He received his DDS degree from the Javeriana University in Colombia. His specialty degrees are in Oral Surgery, Oral Medicine and Implant Dentistry, and his Doctorate in Buccal Surgery from the Complutense University in Madrid, Spain. Dr. Rojas received his post-graduate specialty degree along with a M.S. in Prosthodontics, and a Fellowship in Oral Implantology from UNC.

Topic: Prosthetic determinants in implant therapy

In implant therapy, the final outcome is a restoration that fills the expectations of the patient in both, function and esthetics. Because prosthesis and implant position has a special relation, it is important to place the implants in relation with the final prosthesis. This presentation shows the specific prosthetic determinants in any type of restoration that will determine the implant position and the potential type of restorations.

Objectives:
• Recognize the prosthetic determinants in simple or complex cases
• Determine the ideal restoration according with the existing bone
• Case design using prosthetic determinants
• Integration between prosthetic and surgical determinants

Topic: Hands-On Workshop IV: Prosthetic determinants in implant therapy

This presentation will provide guidelines for the treatment of a spectrum of cases ranging from simple to complex. Specific protocols will be provided for immediate versus delayed placement, as well as, immediate or delayed loading. One of the key determinants in the decision making process is the position of the alveolar bone crest relative to the smile-line, as well as relative to the desired position of the cervical contour of the planned restoration. When there is minimal bone loss, restoration will replace the tooth structure. In cases of significant bone loss, the restoration will replace the tooth structure, as well as the soft tissues with simulated tissue-colored prosthesis. The principles and step-by-step protocol will be presented for the recommended therapies.

Objectives:
• Placement of axial and tilted implants for an edentulous jaw custom-designed for this course
• Fabrication of immediate load provisional prosthesis
• Preparation for the definitive restoration with monolithic zirconia
Speakers

Mariano Sanz, MD, DDS (Spain)
Prof. Sanz received his MD and DDS degrees from the Universidad Complutense de Madrid. He then completed his graduate training in Periodontology at the University of California, Los Angeles (UCLA), followed by Doctor in Medicine (PhD Degree) from the University Complutense of Madrid. He is Professor of Periodontology, Dean of the Faculty of Odontology of the University Complutense of Madrid and Director of the Graduate Program “Master in Periodontology” also at the University Complutense of Madrid. Currently he is the Chairman of the European Council of Deans of Faculties of Odontology. Professor Sanz is the author of more than 200 scientific articles and book chapters.

Topic: Implant placement in fresh extraction sockets. Key decision factors

It is well established that tooth extraction will result in an apico-coronal as well as bucco-lingual reduction of the alveolar ridge, mostly in the buccal aspects of the extraction site. In order to avoid this physiological bone loss some clinicians have advocated the immediate installation of implants in fresh extraction sockets. Different clinical studies have evaluated the impact of this implant placement surgical approach on different outcomes, such as: implant survival, bone crest alterations and aesthetic results. However, in spite of these reports, there is a lack of well-designed clinical trials that have evaluated these outcomes systematically and there is a lack of knowledge on the possible factors associated with different hard and soft tissue outcomes of this surgical protocol. This presentation will review the results from clinical trials evaluating the immediate implant placement approach and we will review the important risk factors (implant design, implant position, implant location, thickness of bony walls, etc.) involved in the clinical outcome. Finally we shall provide some clinical recommendations on the use of this surgical approach.

Objective:
- To discuss the different options to decide when there is indication to extract a tooth and replace it with a dental implant
- To discuss the outcomes of the immediate implant placement
- To discuss the advantages and disadvantages of this surgical protocol
- To evaluate the scientific evidence on the efficacy of this surgical protocol
- To evaluate the risk factors involved in this procedure
- To present representative cases illustrating the expected outcomes of this surgical procedure
Akitoshi Sato, DDS (JAPAN)

Dr. Sato is Director of Minami Aoyama Implant Center in Tokyo since 2002. He graduated from Uihon University School of Dentistry and received his D.D.S. degree in 1993. He is a graduate of the USC Japan program in 2009 and is the Program Ambassador. Dr. Sato is the Fellow of International Congress of Oral Implantologist and Board member of Director of ICOI AP Section. He is also a member of Academy of Osseointegration and the American Academy of Periodontology.

Topic: Achieving natural implant in aesthetic dentistry

This presentation will present the clinical management of soft and hard tissues around implants which includes; diagnosis, treatment design and surgical concept. It will also entail the importance of relationship between dental technicians and dentists for making ideal restorations, which is a key factor to achieve patient satisfaction through natural implant aesthetics.

Objectives:

• Teaching the concepts on the optimization of esthetic implant results in the aesthetic zone.
Parish Sedghizadeh, DDS, MS (USA)

Dr. Sedghizadeh is Assistant Professor of Division of Periodontology, Diagnostic Sciences and Dental Hygiene, at Herman Ostrow School of Dentistry of USC. He is Diplomate of American Board of Oral and Maxillofacial Pathology. He has completed his dental education at USC and his training in Oral and Maxillofacial Pathology at Ohio State University, where he also attained a Master of Science degree in oral biology. He currently directs the Center for Biofilm Research at USC, where he conducts active research focusing on the study, characterization and treatment of microbial biofilm infections of the head and neck.

Topic: Dental Hygiene Forum: Decision making for treatment of patients taking Bisphosphonates

The objective of this talk is to provide an overview of inflammatory and infectious jaw bone pathology, particularly osteomyelitis of the jaw and osteonecrosis of the jaw associated with anti-resorptive therapy such as bisphosphonates. The significance of this class of drugs will be discussed, the different etiologies for inflammatory jaw bone disease will be explained, and the pathogenesis of these conditions will be presented. The talk will focus on clinical features, signs and symptoms, diagnosis and management. Clinical cases will be presented to provide experience and to provide a framework for discussing treatment, outcomes and preventive measures. Implications with respect to dental treatment in patients taking anti-resorptives will be presented, particularly indications and contraindications to various dental procedures, in addition to medico-legal implications and case precedent. Finally, current multi-disciplinary research from USC investigating osteonecrosis of the jaw will be presented.
Enrico Steger, CDT (ITALY)

Mr. Steger, dental technician with heart and soul and inventor of manual milling from South Tyrol, gives an account in his lecture of experiences and the latest discovery in the application of zirconium in prosthodontics. As founder of Zirkonzahn he is actively involved innovator of the branch and market leader in the production of manual milling systems, Mr. Steger will give an overview over the latest product innovations, starting with the manual milling system, the Designer Zirkograph, up to the Zirkonzahn CAD/CAM- system 5-Tec and the Milling Unit M3 Upgrade.

Topic: Zirconia and the Prettau Bridge

Zirconia will extensively replace metals in the sector of dentistry because of its high resistance and excellent biocompatibility. Prognostics assume a 80-90 percent share in the market in the next five to ten years, even if the world of dental technicians and dentists does not face this development unitary positive and there’s still some skepticism linked with the material zircon.

As a producer of zirconium and expert in application Mr. Steger will pick up existing reserves as well as inform extensively about the characteristics of Zirconia.

Furthermore he will present his latest clou, the "Prettau Bridge"- a bridge out of 100% monolithical Zirconia without ceramic, which may come up to all aesthetic demands to a natural looking tooth. Thanks to this new bridge one big odontological problem area, the ceramic-chipping can be challenged.

As founder of Zirkonzahn, the innovator of the branch and market leader in the production of manual milling systems, Mr. Steger will give an overview over the latest product innovations of the South Tyrolean company, starting with the manual milling system, the Designer Zirkograph, up to the Zirkonzahn CAD/CAM- system 5-Tec and the Milling Unit M3 Upgrade.

Objectives:
- Explain the steps of creating bridges out of full monolithical Zirconia
- Answer questions regarding lack of Know How about Zirconia
- Give an overview of new products
Speakers

Toshiro Sugai, DDS, PhD (JAPAN)
Dr. Sugai has received his PhD degree from Osaka University. He has served as an implant surgical fellow and a visiting associate professor of Oral-facial Implant Center at UCLA. Currently, he is a clinical professor of Dental Implant Clinic at Tokyo Medical and Dental University. Dr. Sugai has written numerous articles related to implant dentistry, focusing on maxillary sinus augmentation and bone grafting. He is a director of Japanese Academy of Maxillofacial Implants, president of UCLA Implant Association Japan, representative of the Japanese Academy of Oral Implantology, councilor of Japan Society for Regenerative Medicine, and member of the international relations committee of Academy of Osseointegration.

Topic: Success of maxillary sinus augmentation

The concept of osseointegration has allowed highly predictable results and the popular use of dental implant therapy. However, implant placement is often difficult in the posterior maxilla due to insufficient bone volume below the maxillary sinus. Boyne and James have developed a technique involving grafting of autogenous bone into the sinus floor by fenestration of the lateral maxillary sinus wall to access and elevate the sinus membrane based on the Caldwell-Luc procedure. In addition, Summers has developed the sinus floor elevation technique using an osteotome by alveolar crest approach. Subsequently, many modified procedures have also been reported. Methods based on the former are called "lateral approach" or "lateral window technique", while those based on the latter are called "alveolar crest approach" or "osteotome technique". The lateral approach allows elevation of the maxillary sinus membrane under direct vision, and it is applicable, even if the bone volume is too deficient to obtain primary stability. While the alveolar crest approach is a less-invasive surgical procedure, it has several limitations. It is applicable only when there is enough bone volume to provide primary stability of the implant, and it has to be performed blindly. Regardless of which method is used, the selection of indication, proper diagnosis, and treatment planning are extremely important.

The prognosis for implant treatment with maxillary sinus augmentation is extremely favorable. Consequently, the maxillary sinus augmentation has been widely accepted as a technique essential for implant treatment in the posterior maxilla.

Objectives:
- Identify the safer and more predictable maxillary sinus augmentation procedures
- Use CT imaging to evaluate and interpret the 3D anatomy of the maxillary sinus including semilunar hiatus, superior alveolar artery, and septa
- Describe how to predictably lift membrane and avoid complications.
Speakers

Tomaso Vercellotti MD, DDS (ITALY)

Dr. Vercellotti is the inventor of Piezoelectric Bone Surgery and developer of Ultrasonic Implant Site Preparation Technique, Ultra-Osseointegration Process and Orthodontic Microsurgery Technique. He is author of a new surgical bone quality classification, Founder and Chairman of International Piezosurgery Academy (IPA), and Honorary Professor at UCL Eastman Dental Institute of London. Dr. Vercellotti is also the International speaker for: AO, EAO, AAP, NYU, USC, ICOI, Quintessence. He is the 2005 recipient of Italian Dentistry Society for scientific and cultural merit, and maintains intensive clinical and education activities.


The diagnosis and treatment plan are the most important phases when determining the best implant treatment to achieve therapy efficacy and minimum morbidity for the patient. A wide range of clinical cases are presented where the choice of treatment represents an individual compromise for each patient to find the right balance between predictability and minimal invasiveness. The author presents several techniques for Piezoelectric Bone Surgery and discusses its benefits and limitations compared to traditional techniques.

Objective:
- Develop and learn the clinical rationale behind the diagnostic process and treatment plan according to the psychological, biological and economic features of each patient
- Understand the importance of the implant pre-surgical study
- Learn new ultrasonic techniques for implant site preparation in order to best exploit residual crest bone
- Learn the scientific fundamentals of these techniques

Topic: Hands-On Cadaver Workshop #3: Piezoelectric bone surgery

In recent years piezoelectric bone surgery (PBS) has revolutionized bone surgery. A variety of applications of PBS have been developed, which have significantly improved the outcomes. This presentation will address the rationale, as well as the step-by-step protocol for a number of surgical application of PBS, including: sinus augmentation (lateral and crestal), alveolar ridge augmentation (horizontal and vertical), and implant site preparation.

Objective:
- Lateral osteotomy sinus augmentation
- Donor graft harvesting from ramus and symphysis
- Recipient site preparation and block graft fixation
- Flap design and management
- Piezosurgery implant site preparation
Speakers

Homayoun H. Zadeh, DDS, PhD (USA) (Symposium Chair)

Dr. Zadeh is Associate Professor, Herman Ostrow School of Dentistry of USC. Dr. Zadeh is a graduate of USC Ostrow School of Dentistry. 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.

Topic: Hands-On Cadaver Workshop #1: VISTA for minimally invasive soft tissue augmentation around teeth and implants

A variety of soft tissue augmentation procedures have been employed for treatment of gingival recession defects, as well as for augmentation of peri-implant soft tissue deficiencies. Current techniques have a number of limitations including, scar formation at recipient sites due to surface incisions and relapse of recession due to muscle pull during healing. This presentation introduces a novel, minimally invasive approach, referred to as “vestibular incision subperiosteal tunnel access” (VISTA). This entails an initial access incision vestibule, followed by elevation of a subperiosteal tunnel. VISTA allows for both access, as well as an opportunity to coronally reposition the gingival margins of all involved teeth/implants. A novel method of stabilization of the gingival margins is also introduced, referred to as “tooth-bonded suturing” designed to maintain the coronal positioning during healing. This technique has utility for both isolated, as well as multiple contiguous recession defects. VISTA has application for all other oral regions, as well as for treatment of osseous defects, though its application is most advantageous in the esthetic zone. VISTA can be utilized for introduction of autogenous tissues, as well as biomaterials and growth factors. In particular recombinant human platelet derived growth factor (rhPDGF) has been demonstrated to be highly effective for the treatment of recession defects.

Objectives:
- VISTA step-by-step
- Soft tissue augmentation around teeth and implants
- VISTA for papilla regeneration and augmentation
- Application of rhPDGF for soft tissue augmentation
Speakers

Stephen Yen, DMD, PhD (USA)
Dr. Yen graduated from Harvard college and dental school; and from USC’s Orthodontic Residency/PhD program. He is an associate professor at USC teaching in the orthodontic, oral and maxillofacial surgery and basic science departments. He treats children with birth defects at Childrens Hospital Los Angeles. At the CCMB, he conducts research on surgical-orthodontic treatment, tooth movement and facial overgrowth.

Topic: Translational research: Lessons learned from craniofacial orthodontics and surgery

The purpose of this discussion is to present information on how orthodontics, micro-implants and dentoalveolar surgery can produce bone responses that are favorable to tooth movement, alveolar arch development and skeletal correction of malocclusions.

Objectives:

- Understand how micro-implants are used with orthodontics
- Understand how micro-implants can be combined with surgery
- Understand the differences between distraction osteogenesis, protraction and regional acceleratory phenomenon

All speakers must disclose to the audience any proprietary, financial or other personal interest of any nature or kind, in any product, service, source and/or company, or in any firm beneficially associated therewith that will be discussed or considered during their presentation. The Herman Ostrow School of Dentistry of USC does not view the existence of these interests or uses as implying bias or decreasing the value to participants. The Herman Ostrow School of Dentistry of USC, along with ADA CERP, feels that this disclosure is important for the participants to form their own judgment about each presentation.
Workshops

Three all-day programs with cadaver workshop components will be conducted at USC Herman Ostrow School of Dentistry. 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 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 one time. In addition to the listed course director for each workshop, the hands-on labs will be instructed and moderated by experienced faculty. Throughout the courses, 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 three 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.

Hands-On Cadaver Workshop I
January 25, 2012 - Ostrow School of Dentistry of USC
VISTA for minimally invasive soft tissue augmentation around teeth and implants

Speaker: Dr. Homa Zadeh

A variety of soft tissue augmentation procedures have been employed for treatment of gingival recession defects, as well as for augmentation of peri-implant soft tissue deficiencies. Current techniques have a number of limitations including, scar formation at recipient sites due to surface incisions and relapse of recession due to muscle pull during healing. This presentation introduces a novel, minimally invasive approach, referred to as “vestibular incision subperiosteal tunnel access” (VISTA). This entails an initial access incision vestibule, followed by elevation of a subperiosteal tunnel. VISTA allows for both access, as well as an opportunity to coronally reposition the gingival margins of all involved teeth/implants. A novel method of stabilization of the gingival margins is also introduced, referred to as “tooth-bonded suturing” designed to maintain the coronal positioning during healing. This technique has utility for both isolated, as well as multiple contiguous recession defects. VISTA has application for all other oral regions, as well as for treatment of osseous defects, though its application is most advantageous in the esthetic zone. VISTA can be utilized for introduction of autogenous tissues, as well as biomaterials and growth factors. In particular recombinant human platelet derived growth factor (rhPDGF) has been demonstrated to be highly effective for the treatment of recession defects.

Upon completion of this course participants will know:

• VISTA step-by-step
• Soft tissue augmentation around teeth and implants
• VISTA for papilla regeneration and augmentation
• Application of rhPDGF for soft tissue augmentation

Hands-On Cadaver Workshop II
January 26, 2012 - Ostrow School of Dentistry of USC
Innovative Technique for Ridge Augmentation using SonicWeld Rx rigid resorbable barrier system

Speaker: Dr. Gerhard Iglhaut

Conventional techniques for three-dimensional augmentation of the alveolar ridge require a rigid scaffold for stabilization of the graft material. A variety of techniques and material have been described, each with their own limitations. This presentation will introduce a novel technique for stabilization of graft material using a resorbable rigid membrane and fixation system for ridge augmentation. This approach utilizes the Resorb-X polymer as a totally new method of craniomaxillofacial applications which consists of pure poly D, L-lactic acid (PDLLA) to isolate an osseous defect for guided bone regeneration (GBR). The advantages result from achieving an extremely stable and space preserving membrane for GBR. Dr. Iglhaut describes the science, rationale, as well as the step-by-step techniques.

Upon completion of this course participants will know:

• Components of the SonicWeld Rx rigid resorbable barrier system
• GBR technique using SonicWeld
• Flap design and management
Hands-On Workshop III  
**January 29, 2012 - Ostrow School of Dentistry of USC**  
**Piezoelectric bone surgery**  
**Speaker: Dr. Tomaso Vercellotti**  
In recent years piezoelectric bone surgery (PBS) has revolutionized bone surgery. A variety of applications of PBS have been developed, which have significantly improved the outcomes. This presentation will address the rationale, as well as the step-by-step protocol for a number of surgical application of PBS, including: sinus augmentation (lateral and crestal), alveolar ridge augmentation (horizontal and vertical), and implant site preparation.  

**Upon completion of this course participants will know:**  
- Lateral osteotomy sinus augmentation  
- Donor graft harvesting from ramus and symphysis  
- Recipient site preparation and block graft fixation  
- Flap design and management  
- Piezosurgery implant site preparation  

Optional Dental Hygiene Hands-On Workshop  
**January 28, 2012 - Millennium Biltmore Hotel Los Angeles**  
**The 5 Keys for Working With Ease: Effective Utilization of Hand Instruments**  
**Speaker: Sherry Burns, RDH, BS**  
This course will focus on the interrelationship between cumulative trauma disorders and instrumentation techniques. A variety of "hands-on" activities, utilizing an array of hand instruments with typodonts will give participants the opportunity to discover new approaches to providing routine non-surgical periodontal procedures to help reach peak performance with minimal stress and strain. Emphasis will be directed upon new, contemporary instruments designed specifically for "sit down" delivery vs. traditional designs for "stand up" application.  

**Upon completion of this course participants will know:**  
- Discuss methods to reduce physical stress encountered while practicing chairside:  
  a. posture  
  b. method of delivery  
  c. patient-positioning  
- Compare and contrast options for instruments used in the non-dominant hand.  
- Analyze effective adaptation and angulation in periodontal procedures.  
- Differentiate between force and biomechanical stress in instrumentation techniques.  

General Information  

**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: 1201PERIOS / Perio Symposium  
- Website: www.millenniumhotels.com/millenniumlosangeles  
- Book your rooms early! Special guest room rate is available for enrollees for 37th USC Periodontal & Implant Symposium. Book prior to January 13, 2012 to receive $125 rate for Classic Room (single or double) and $165 for Club Room. Or book your room online at: www.millenniumhotels.com/millenniumlosangeles (Group Code 1201PERIOS)  

**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
Registration Form
37th Annual USC International Periodontal & Implant Symposium
January 25 - 29, 2012 • Millennium Biltmore Hotel Los Angeles • 506 S. Grand Ave. Los Angeles, CA 90071-2607

First Name: ___________________________ Last Name: ___________________________

Title: ___________________________ Specialty: ___________________________

Address: ___________________________

City: ___________________________ State: __________ Zip: __________

Business Phone: __________ Additional Phone (Optional): __________

Email: ___________________________ Fax: ___________________________

Additional Enrollees: ___________________________

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<td>Hands-On Cadaver Workshop II: Innovative Technique for Ridge Augmentation using SonicWeld Rx rigid resorbable barrier system Thursday, January 26, 2012 7 Units (Limited Attendance)</td>
<td>$1,795</td>
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<tr>
<td>Hands-On Cadaver Workshop III: Piezoelectric bone surgery Sunday, January 29, 2012 7 Units (Limited Attendance)</td>
<td>$1,795</td>
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<td>Hands-On Workshop IV: Prosthetic determinants in implant therapy Sunday, January 29, 2012 7 Units (Limited Attendance)</td>
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* Tuition includes course materials, continental breakfast, lunch, and refreshment during breaks

Total: ___________________________

☐ Check Enclosed (Payable to USC School of Dentistry)

☐ Visa ☐ Mastercard Card Number: ___________________________

Expiration Date: ___________________________ Signature: ___________________________

Please mail or fax your registration form to:
Herman Ostrow School of Dentistry of USC Office of Continuing Education
925 W. 34th Street, Room 201J. Los Angeles, CA 90089-0641
Phone: 213.821.2127 • Fax: 213.740.3973 • Email: cedental@usc.edu • Website: www.uscdentalce.org

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 $70 fee is withheld for processing. For additional registrations, xerox and send.
37th Annual USC International Periodontal and Implant Symposium

January 25 - 29, 2012

Millennium Biltmore Hotel Los Angeles

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Office of Continuing Education

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