



CHICAGO2012
the AMERICAN PROSTHODONTIC SOCIETY

Final Program

84th ANNUAL MEETING OF
THE AMERICAN PROSTHODONTIC SOCIETY

FEBRUARY 23-24, 2012 • SWISSÔTEL
CHICAGO, ILLINOIS

the AMERICAN PROSTHODONTIC SOCIETY

Welcome to the 84th Annual Meeting of the American Prosthodontic Society! The APS is the only organization that combines the discipline, specialty and technology of prosthodontics. Our membership includes specialists, general dentists, certified and master dental technologists and students. The APS has earned the reputation of being the singular organization with unrestricted membership where all that is required is an interest in prosthodontics. There is no better organization than the APS to bring together the talent, the insight and the experience of practicing dentists, researchers, dental school faculty and administrators and technologists in one meeting devoted to the advancement of prosthodontics.

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The American Prosthodontic Society is an ADA CERP Recognized Provider. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry. APS designates this activity for 13.5 continuing education credits.

All educational presentations will be delivered in a lecture style with Q&A periods.



APS Mission Statement

To promote the advancement of the discipline of prosthodontics by integrating the generalist, specialist and dental laboratory technologist in a manner that will continuously seek improvement of patient treatment. We will accomplish this through education and research.

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APS Meeting Goals

- Highlight evidence-based dentistry, where scientific research is applied to clinical dentistry
- Provide interdisciplinary instruction and advanced knowledge in prosthodontic education
- Provide an international representation in the prosthodontic field
- Create an environment for networking, professional interaction and knowledge sharing among participants

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Program Schedule At-A-Glance

Registration: 2nd Floor Event Center

General Session: Vevey Ballroom

Exhibits, Table Clinics & Reception: St. Gallen & Montreaux

Business Meeting Luncheon: Fairmont Chicago, Moulin Rouge

WEDNESDAY, FEBRUARY 22, 2012

4:00 - 7:00pm Registration Open

THURSDAY, FEBRUARY 23, 2012

7:00 - 8:00am	Continental Breakfast and Registration Open	12:15 - 2:00pm	Business Meeting Luncheon
8:00 - 8:15am	Call to Order/Opening Remarks	Moderator: Larry Brecht, DDS	
Moderator: Gary Goldstein, DDS		2:00 - 2:30pm	Enrico Steger, MDT <i>Possibilities with Zirconia and the Prettau Bridge</i>
8:15 - 8:35am	Kirk Behrendt, BS <i>The Thriving Prosthodontic Practice</i>	2:30 - 3:00pm	German Gallucci, DMD <i>Esthetic Integration for Implant-Prosthetic Rehabilitations</i>
8:35 - 9:25am	Sillas Duarte, DDS, MS, PhD Jin-Ho Phark, DDS, Dr. Med. Dent. <i>Clinical Challenges in Bonded Restorations</i>	3:00 - 3:15pm	Antoanela Garbacea, DDS <i>(Graduate Prosthodontic Speaker)</i> <i>Obtaining Adequate Crown Ferrule Using a Surgical Extrusion Technique: A Case Report</i>
9:25 - 9:40am	Dominik Mahl <i>(Graduate Prosthodontic Speaker)</i> <i>Implant Impression Taking, Conventional Versus Digital: A Clinical Mini-Overview</i>	3:15 - 3:45pm	Christian Stohler, DMD <i>The Future of Prosthodontics</i>
9:40 - 10:10am	Coffee Break	3:45 - 4:00pm	Coffee Break
10:10 - 10:40am	Ali Tahmaseb, DDS, PhD <i>Guided Surgery and Immediate Loading: The Fully Digital Approach</i>	Moderator: Antonio Bello, DDS	
10:40 - 11:00am	Stephen Chu, DMD, MSD, CDT <i>The Color Pink: Clinical Relevance in Esthetics and Implant Dentistry</i>	4:00 - 4:05pm	Presentation of the Rudd Award
11:00 - 11:20am	Nelson Silva, DDS, MSc, PhD <i>Non-Thermal Plasmas: Potential Dental Applications</i>	4:05 - 4:25pm	Arnold Wohlwend, CDT Rudd Awardee <i>Hot-Pressing: A Significant Progress in Dental Technology</i>
11:20 - 11:40am	Nels Ewoldsen, DDS, MSD <i>Substantially Equivalent, Chemically Different: Who Draws the Line on Dental Product Safety?</i>	4:25 - 4:40pm	Alireza Moshaverinia, DDS, MS <i>(Graduate Prosthodontic Speaker)</i> <i>Stem Cell Therapy and Its Applications in Bone Regeneration: An In Vivo Study</i>
11:40 - 11:45am	Presentation of the Golden Medallion Award	4:40 - 5:30pm	Peter Moy, DMD <i>State of the Art in Surgical Implant Dentistry: Myths or Realities</i>
11:45am - 12:15pm	Tomas Albrektsson, MD, PhD, ODhc Golden Medallion Awardee <i>On Reasons for Marginal Bone Loss Around Oral Implants</i>	5:30pm	Sessions Adjourn
		5:30 - 8:00pm	Reception and Table Clinics in the Exhibit Hall

FRIDAY, FEBRUARY 24, 2012

7:00 - 7:50am	Continental Breakfast and Table Clinics in the Exhibit Hall	9:40 - 10:10am	Coffee Break and Table Clinics in the Exhibit Hall
7:50 - 8:00am	Presentation of Graduate Prosthodontic Research Award	Moderator: Baldwin Marchack, DDS, MBA	
Moderator: Carlo Poggio, DDS, MSD, PhD		10:10 - 10:30am	Pascal Kunz, MD, DDS <i>Innovations in Digital Dentistry – Implications of the Third Dimension During the Diagnostic Phase</i>
8:00 - 8:45am	Giuseppe Allais, DDS Walter Gebhard, MDT <i>Human Interfaces Between Patient, Dentist and Technician</i>	10:30 - 11:15am	Inaki Gamborena, DMD, MSD <i>The Gray Zone Around Dental Implants: Keys to Esthetic Success</i>
8:45 - 9:10am	Van Thompson, DDS, PhD <i>Practice Based Research: PEARL Network Findings</i>	11:15 - 11:20am	Presentation of Table Clinic Awards
9:10 - 9:40am	Christian Coachman, DDS, CDT <i>Smile Design and Interdisciplinary Communication on Esthetic Dentistry</i>	11:20am - 12:20pm	Frank Spear, DDS, MSD <i>Conventional Fixed Prosthodontics in the Implant Era</i>
		12:20pm	Meeting Adjourns

Educational Program & Abstracts

THURSDAY, FEBRUARY 23, 2012

8:15 – 8:35am

THE THRIVING PROSTHODONTIC PRACTICE

What does it truly mean to be all that we can be for our patients? We use words like excellence, commitment and service, but do we really give all that we can to the people we serve? Learn how some of the best prosthodontic practices are tapping unused resources in the current economy.

In this session, attendees will:

- Learn what some of the best dental practices in the country are doing to create their most profitable months ever
- Learn how to authentically inspire your team to stay “fully engaged” with patients
- Discover the personal disciplines that will keep you happy and alive in the profession of dentistry



KIRK BEHRENDT, BS

Kirk Behrendt is the CEO of www.actdental.com, a highly customized coaching company for dentists. Dentistry Today recently recognized Mr. Behrendt as one of the Leaders in Dental Consulting in 2011 and 2012. Dr. Peter Dawson

called him “THE best motivator I have ever heard.”

8:35 – 9:25am

CLINICAL CHALLENGES IN BONDED RESTORATIONS

Performing successful and satisfying bonded restorations is still dependent on numerous factors, especially with respect to material selection and marginal integrity. 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.



SILLAS DUARTE, DDS, MS, PhD

Dr. Sillas Duarte is Associate Professor, Division of Restorative Sciences, 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. Dr. Duarte's scientific work has been supported by governmental and commercial grants and he serves as a consultant for several manufacturers. His research focus is on bonding to dental structures, composites and ceramics.



JIN-HO PHARK, DDS, DR. MED. DENT.

Dr. Jin-Ho Phark is a full-time faculty member in the Division of Restorative Sciences at the Herman Ostrow School of Dentistry of University of Southern California, where he is also the Director of the Dental Biomaterials Research Laboratory. He is associate editor of

Quintessence of Dental Technology.

GRADUATE PROSTHODONTIC PROGRAM

This year the APS has again attracted an exciting field of graduate student candidates for the 2012 Research Competition. They will be presenting original work over a wide range of topics. The mission of this program is to provide an annual forum for graduate students to foster high quality research, writing and oral presentation skills. Furthermore, the APS welcomes the opportunity to develop stronger ties to prosthodontic graduate students and cultivate their future leadership in the Society. These students will present their work throughout the day.

This program is generously supported through an educational grant from the Editorial Council of the Journal of Prosthetic Dentistry.



Educational Program & Abstracts

9:25 – 9:40am (Graduate Prosthodontic Speaker)

IMPLANT IMPRESSION TAKING, CONVENTIONAL VERSUS DIGITAL: A CLINICAL MINI-OVERVIEW

Today, every clinical situation, whether tooth or implant, can be digital scanned. This overview specifically introduces implant impression taking using the Lava™ C.O.S. with Encode0, the CEREC Bluecam with scan bodies and the inLab MC XL. Based on a clinical documentation, the different workflows and procedures are presented.



DOMINIK MAHL

Dr. Dominik Mahl is a graduate student at the University of Basel Clinic for Reconstructive Dentistry and Temporomandibular Disorders in Switzerland.

10:10 – 10:40am

GUIDED SURGERY AND IMMEDIATE LOADING: THE FULLY DIGITAL APPROACH

The primary purpose of this lecture is to explain the accuracy of digital processing of CT images to 3-D models, which are used to design and fabricate the drilling guide and the final superstructure based on usage of diagnostic (mini) implants, and the reaction and the survival of the implants due to so-called immediate loading protocol. This is a new concept in implant surgery based on elaboration of the CT scan images and computer processing in order to create a digital 3-D model using mini implants as references to transfer the information from the computer to the patient with a high precision.



ALI TAHMASEB, DDS, PHD

Dr. Ali Tahmaseb is a Dutch Implantology Association (NVOI) registered implantologist and has worked since 2000 in his referral offices for dental implants in the Netherlands and Belgium. He is co-founder of a novel concept in guided surgery and primary investigator in this field at the University of Amsterdam. As ITI Fellow and Officer, he has participated in several education and research protocols and Consensus meetings on different topics. His main research areas are in guided surgery, CAD/CAM, bone regeneration around endosseous implants and guided bone regeneration. He has authored and co-authored articles in several publications and has lectured around the world. Dr. Tahmaseb lives in Antwerp, Belgium.

10:40 – 11:00am

THE COLOR PINK: CLINICAL RELEVANCE IN ESTHETICS AND IMPLANT DENTISTRY

Color matching has always been a challenge in esthetic dentistry. Visual perception thresholds for “white” (teeth) esthetics have been defined, yet “pink” (gingiva) esthetic thresholds have yet to be established. A brief insight into current research on this subject matter will be presented, as well as the use of pink prosthetic gingiva and pink implant systems for gingival tissue color matching.

After this presentation, the attendee should be able to understand the following concepts associated with immediate implant placement and provisional restoration:

- Mid-facial gingival color
- Interdental gingival color
- Clinical application of pink implant systems



STEPHEN CHU, DMD, MSD, CDT

Dr. Stephen J. Chu is Clinical Associate Professor and Director of Esthetic Education at Columbia University College of Dental Medicine, Department of Prosthodontics. He maintains a private practice in fixed prosthodontics in New York City. Dr. Chu has published over 28 articles and given over 100 lectures nationally and internationally on the subjects of esthetics, prosthodontics and implant dentistry. He has co-authored The Fundamentals of Color: Shade Matching and Communication in Esthetic Dentistry Ed. 1 & 2 [Quintessence Publishing Co., 2004] and Aesthetic Restorative Dentistry: Principles and Practice [Montage Media Corp., 2008]. Dr. Chu is the creator of Chu's Aesthetic Gauges manufactured by Hu-Friedy Co., Inc.

Educational Program & Abstracts

THURSDAY, FEBRUARY 23, 2012

11:00 – 11:20am

NON-THERMAL PLASMAS: POTENTIAL DENTAL APPLICATIONS

Non-thermal plasmas (NTPs) represent a promising technology for improving the compatibility of materials and biological systems, e.g., through the chemical functionalization, modification or sterilization of surfaces as a result of reactions induced by one or more plasma-produced chemical species. In addition, NTP-generated free radicals and ultraviolet (UV) light can be utilized for polymerization purposes. This presentation will present the knowledge and propose possible mechanisms by which NTP technology can be used to substantially change the chemistry of restorations and teeth and implant surfaces to improve their wetting response, leading to enhanced long-term performance of resin cements and composite restorations and primary stabilization for implant therapy.



NELSON SILVA, DDS, MSC, PHD

Dr. Nelson Silva is Assistant Professor of Prosthodontics and Adjunct Professor of Biomaterials at New York University. He holds a master's, PhD and Post-Doctorate from University of Sao Paulo and New York University. Dr. Silva has published several articles and book chapters and is on the review boards of high-impact-factor journals. His research field of interest involves translational research and laboratorial and clinical aspects for the success of ceramic restorations and implants, as well as cementation procedures and non-thermal plasmas for dentistry.

11:20 – 11:40am

SUBSTANTIALLY EQUIVALENT, CHEMICALLY DIFFERENT: WHO DRAWS THE LINE ON DENTAL PRODUCT SAFETY?

Dental material advertisements highlight clinical superiority and handling advantages brought about by novel chemistry. Those same products claim substantial equivalency when seeking regulatory clearance to market. Manufacturer published data rarely address biologic and environmental shortcomings. Specific examples of endocrine disruption, allergens, microflora changes and environmental hormone accumulation will be reviewed.

Following this presentation attending dentists, dental technicians and dental staff members will be able to:

- Define “adverse reaction” related to restorative and prosthodontic materials
- Explain post-market surveillance responsibilities of manufacturers and clinicians
- Cite at least two dental resin components capable of endocrine disruption



NELS EWOLDSEN, DDS, MSD

Dr. Nels Ewoldsen earned his DDS in 1978 and MSD in 1994, both from Indiana University. His career highlights include the development of restorative materials and techniques for outreach settings (GC Corporation) and serving as Clinical Research Director, Dentsply Prosthetics. While pursuing his outreach interests, he maintains a private practice emphasizing conservative dentistry in Waveland, Indiana.

11:45am – 12:15pm

ON REASONS FOR MARGINAL BONE LOSS AROUND ORAL IMPLANTS

Marginal bone loss around oral implants has traditionally been explained by peri-implantitis or overloading. When basic facts are scrutinized, it is clear that little evidence supports these notions as the original and single reasons behind marginal bone loss. The Healing-Adaptation theory is, in contrast, backed up by published clinical evidence. This theory claims that marginal bone resorption depends on a combination of the hardware, the clinical input and patient factors.



TOMAS ALBREKTSSON, MD, PHD, ODHC

Prof. Tomas Albrektsson is the Professor and Head of Biomaterials Group in the Department of Handicap Research at the University of Goteborg, Sweden. He received his PhD in 1979 after defending

his thesis Healing of Bone Grafts. An avid lecturer, Prof. Albrektsson has made over 600 presentations around the world. Additionally, he is the editor of 10 scientific books and the author of over 650 abstracts, reviews and scientific papers on bone grafts, vital microscopy of bone, experimental implants, oral and craniofacial reconstructions and orthopaedic implants. He is the recipient of numerous awards, including the Lifetime Achievement Award in Osseointegration Research in 2007, awarded by the Academy of Osseointegration, and now the Golden Medallion Award from the American Prosthodontic Society in 2012.

2:00 – 2:30pm

POSSIBILITIES WITH ZIRCONIA AND THE PRETTAU BRIDGE

Realizing implant-supported bridges is always a big challenge, whether they are made with manual milling systems, or, even more of a challenge, with computer assisted milling systems. This presentation is about the influence and the techno-physical particularities of the work axis and the milling strategies and their influence on milling results, making a clean sweep of many prejudices. By means of many unpublished examples from all over the world, attendees will learn which methods are used by dental technicians in face of this challenge and will gain valuable advice on realizing a Prettau Bridge.

Key Points:

- Commonly used, non-technology-based occlusal indicators do not measure occlusal force and cannot determine time sequencing
- Force-Mapping and Time-Sequencing of occlusal contacts can be readily employed to idealize occlusal end results precisely, case after case
- Since 1990, some of the published applications of computerized occlusal analysis technology include prosthodontic case finishing, implant force control, contact ordering when implants and teeth exist in the same arch, splint-free TMD treatment, complete and partial prostheses occlusal design and painful tooth contact precision isolation



ENRICO STEGER, MDT

Enrico Steger is the inventor of the manual zircon-milling technology and founder of the company Zirkonzahn. He founded his first laboratory in 1981, and he graduated from the dental technician school in Bozen/South Tyrol.

Enrico is the author of Die anatomische Kaufläche and speaker for international seminars. He cooperated in the invention of several ceramic compounds, e.g., the Zirkonzahn ICE ceramic, and he developed several processing procedures in the field of dental technology as well as the Zirkonzahn CAD/CAM system.

Educational Program & Abstracts

THURSDAY, FEBRUARY 23, 2012

2:30 – 3:00pm

ESTHETIC INTEGRATION FOR IMPLANT-PROSTHETIC REHABILITATIONS

During this lecture, clinical considerations and indications for dental implants will be analyzed in the context of their direct application to esthetic implant-prosthetic rehabilitations. Risk assessment, treatment planning, surgical protocols and esthetic/prosthetic rehabilitations will be discussed in detail according to different clinical situations. Recommended planning steps and treatment procedures will be presented through scientific evidence and illustrated with clinical examples treated at the School of Dental Medicine of the University of Geneva (Switzerland) and Harvard School of Dental Medicine (Boston, Massachusetts). Modern implant-prosthetic restorations using different implant designs call for a harmonious esthetic integration with the pre-existing environment. A scalloped gingival line with distinct papillae and free of any abrupt vertical differences in clinical crown length between anterior implants is paramount. In this context, biologic considerations affecting normal peri-implant soft tissue integration will be discussed as a major esthetic parameter.

Upon completion of this lecture participants should be able to:

- Have an understanding of current trends in esthetic implant dentistry
- Assess associated risk factor for suitable treatment planning
- Widen treatment planning options using a selective approach



GERMAN GALLUCCI, DMD

Dr. German Gallucci is the director of the Harvard Dental Implant Program, Department of Restorative Dentistry and Biomaterials Sciences at Harvard School of Dental Medicine. He obtained his Doctorate in Dental Medicine at the department of Prosthodontics, School of Dental Medicine at the University of Geneva, Switzerland. Dr. Gallucci actively participates in clinical research related to prosthodontics and implant therapies. His work has been published in international peer-reviewed journals, and he is an editorial board member for Clinical Oral Implants Research.

Dr. Gallucci participates as an invited lecturer in international and national conferences and congresses. He is a Fellow of the International Team for Implantology (ITI), Switzerland and an active member of the Academy of Osseointegration (AO) - USA; European Academy of Osseointegration (EAO); and International Academy of Dental Research (IADR).

3:00 – 3:15pm (Graduate Prosthodontic Speaker)

OBTAINING ADEQUATE CROWN FERRULE USING A SURGICAL EXTRUSION TECHNIQUE: A CASE REPORT

Various treatment modalities have been described in the literature to develop an adequate ferrule effect and to maintain the biological width in teeth affected by crown and/or root fractures. In 1978, Tegsjö first described the intra-alveolar dental transplantation also referred to as surgical extrusion of teeth fractured by trauma. This technique is a viable treatment alternative for subgingival tooth fracture, intrusive luxations, deep caries, root perforations in the cervical third and all tooth involvement that violates the biologic width. Case report included.



ANTOANELA GARBACEA, DDS

Dr. Antoanela Garbacea is a graduate student in the dual programs of advanced education in prosthodontics and implantology at Loma Linda University in California.

3:15 – 3:45pm

THE FUTURE OF PROSTHODONTICS

No different from other specialties in dentistry, the conceptual foundation of prosthodontics is increasingly challenged by a range of pressures influencing past thinking. There is the impression that prosthodontics is facing disproportionately greater challenges than some other dental specialties. Advances in science and technology; changing disease demographics, care-seeking patterns and societal mandates; the decreasing availability of discretionary funds in the US, paralleled by the increasing cost of delivering care; medical tourism; and the lack of strong brand recognition of the discipline, combined with ineffective patient advocacy, are some of the factors that shape prosthodontics in the years ahead. In addition, the role of prosthodontics in the leading research universities in the US has become tenuous, often limited to the teaching and service mission. Research and innovation almost exclusively occur in the interface between academia and the dental industry. Clearly, the time has come to set lofty goals for prosthodontics to change the lives of 21st century patients, locally and globally.



CHRISTIAN STOHLER, DMD

Dr. Christian Stohler is the dean of the University of Maryland Dental School. He has served as president of the International Association of Dental Research Neuroscience Group and the Association of University Temporomandibular Disorders and Orofacial Pain Programs and is on the Board of Scientific Counselors of the National Institute of Dental and Craniofacial Research of the National Institutes of Health. Dr. Stohler has written more than 75 book chapters and journal articles and serves as associate editor of the Journal of Orofacial Pain. He has focused his research and scholarship on pain and TMJD, often with respect to gender differences.

Educational Program & Abstracts

4:05 – 4:25pm

HOT-PRESSING: A SIGNIFICANT PROGRESS IN DENTAL TECHNOLOGY

The most significant advancements in dental ceramics during the last three decades will be presented. The introduction of the hot-pressing technique – a completely new technology at the time – was a significant breakthrough in the fabrication of all-ceramic restorations. Prerequisites for high quality ceramic restorations, such as optimal marginal accuracy, a full wax-up try-in and the influence of new materials such as zirconium oxide materials will be discussed. The influence of these developments on our daily work and the impact on future trends will be presented.



ARNOLD WOHLWEND, CDT

Arnold Wohlwend completed his post-graduate work at the Center of Dental Medicine at the University of Zurich, Clinic for Fixed and Removable Prosthodontics and Dental Material Science.

Mr. Wohlwend was the chief

technician in the Department of Fixed and Removable Prosthodontics and Dental Material Science from 1985-1995 and was also a lecturer at the Swiss College of Dental Technology in the topics of ceramics and aesthetics. He owns a private laboratory in Lichtenstein.

4:25 – 4:40pm (Graduate Prosthodontic Speaker)

STEM CELL THERAPY AND ITS APPLICATIONS IN BONE REGENERATION: AN IN VIVO STUDY

Bone grafts are currently the main treatment option in modern reconstructive dentistry. Stem cell-scaffold constructs seem to be a promising approach for bone engineering. In this study alginate microspheres were fabricated. Microspheres containing PDLSCs, GMSCs and hBMSCs were further implanted subcutaneously and ectopic bone formation was analyzed by µCT and histological analysis at eight weeks post-implantation. Ectopic mineralization was observed inside and around the implanted microspheres, demonstrating that immobilization of PDLSCs and GMSCs in the alginate microspheres can provide a promising strategy for bone tissue engineering.



ALIREZA MOSHAVERINIA, DDS, MS

Dr. Alireza Moshaverinia is a third year prosthodontics resident and PhD candidate at the Center for Craniofacial Molecular Biology (CCMB) at the Herman Ostrow School of Dentistry of USC. He received his DDS degree in 2004

and his MS in Dental Biomaterials from The Ohio State University in 2009.

4:40 – 5:30pm

STATE OF THE ART IN SURGICAL IMPLANT DENTISTRY: MYTHS OR REALITIES

Current advancements and improved technology in implant dentistry have significantly enhanced the clinician's ability to provide quality care at a higher level and improved predictability with implant therapy. Yet, failed cases are still encountered, both from a functional and esthetic standpoint. This presentation will review the improvements that have been introduced in this field and will highlight specific areas where clinicians may encounter complications even with the improved technologies and advanced techniques so that they may take appropriate measures to avoid these complications.

Specific areas that will be addressed and discussed will focus on the functional and esthetic zones as to:

- Improvements in diagnostic equipment and computer software programs that may assist in improving clinical outcomes
- Improvements in surgical techniques and principles to minimize trauma and manage soft tissue contours
- Improvements in prosthetic techniques and principles to permit immediate loading

It is vitally important for clinicians actively involved with implant dentistry to understand the principles and necessity to follow the appropriate protocols to obtain long-term success for their implant patients. When the proper steps are taken and complications are still encountered, then clinicians must be ready to deal with these complications or make the necessary referral.



PETER MOY, DMD

Dr. Peter Moy received his dental degree from the University of Pittsburgh, a certificate in General Practice Residency from Queen's Medical Center in Honolulu, Hawaii and his certificate in Oral and Maxillofacial Surgery from UCLA

Hospital and Medical Center. He presently limits his practice to Oral and Maxillofacial Surgery focused primarily in the areas of osseointegrated dental implants and the reconstruction of severely atrophic ridges. He is currently a Professor of Clinical Dentistry, Oral and Maxillofacial Surgery at UCLA School of Dentistry as well as the Director of Implant Dentistry at the Straumann Surgical Dental Clinic. He was recently selected as the first Nobel Biocare Endowed Chair in Surgical Implant Dentistry at UCLA. Dr. Moy served as President of the Academy of Osseointegration in 2010.

Educational Program & Abstracts

FRIDAY, FEBRUARY 24, 2012

8:00 – 8:45am

HUMAN INTERFACES BETWEEN PATIENT, DENTIST AND TECHNICIAN

In the last 20 years prosthetic dentistry has undergone great changes. At the same time the demand for restorative dentistry for esthetic reasons has exponentially increased. Cosmetic reconstructions are often in conflict with the ethics of the profession. The challenge today and for the future in dentistry is to obtain the esthetic satisfaction of the patient without invasiveness while also achieving long-term results.

Discussions with patients to clarify their expectations and to present the different possibilities and interdisciplinary work coordination allow for a biological approach, preserve the dental structure and improve the oral function.



GIUSEPPE ALLAIS, DDS

Dr. Giuseppe Allais was born in 1960 and obtained his Dental Technician degree in 1978, then his Doctorate of Dental Surgery in 1984 at the University of Turin – Italy. From 1984 to 1989 he worked as an assistant professor in the Prosthetic

Department of University of Turin, then between 1989 and 1993 in the Prosthetic Department and Masticatory Disorders of the University of Zurich – Switzerland. From 1994 to the present he has operated a private practice in Turin, Italy.



WALTER GEBHARD, MDT

Mr. Walter Gebhard graduated from his dental technology school in Karlsruhe, Germany in 1977. Since 1994 he has operated his own laboratory in Zurich, Switzerland (Gebhard AG) with priorities on fixed and implant supported

reconstructions and functional aesthetic interaction. Mr. Gebhard is specialized on fixed and implant supported restorations and PFM and metal-free techniques with priorities on function and aesthetics. He is living the idea of the team approach, working together with dentist and patient, especially with private practicing dentists in Switzerland. Mr. Gebhard has held seminars and lectures in America, Europe and Asia for various well-recommended dental academies. He is also published in dental and technical journals with various articles about aesthetic dentistry and technology.

8:45 – 9:10am

PRACTICE BASED RESEARCH: PEARL NETWORK FINDINGS

Practice Based Research Networks (PBRNs) provide a mechanism for comparative effectiveness research (CER) in general dental practice. The NYU PEARL network has over the last six years developed and conducted a range of CER studies including randomized trials. These studies include patient centered outcomes. Presented will be selected PEARL study findings related to endodontic treatment and related restorative outcomes, implant placement and restoration treatment of non-carious cervical lesions and sensitivity in Class I resin-based composite restorations. The new National Dental PBRN will be discussed.

After the session, participants will be able to:

- Describe comparative effectiveness research and patient centered outcomes
- Discuss the results of endodontic treatment and restoration of teeth in general practice after three to five years in function
- Describe the patient-centered treatment outcomes for sensitive non-carious cervical lesions treated with chemoactive dentifrice, dentin bonding agent with sealant or restoration



VAN THOMPSON, DDS, PHD

Dr. Van P. Thompson is the Professor and Chair, Biomaterials and Biomimetics, NYU College of Dentistry. Known for his work on adhesion and bonded bridges at the University of Maryland, he has published many articles and made

numerous presentations on dental biomaterials in the US and internationally. His current research areas include occlusal hidden caries, new ceramics for layer crowns, fatigue damage in ceramics, tissue engineering for alveolar ridge augmentation and practice based research (PEARL network).

Educational Program & Abstracts

9:10 – 9:40am

SMILE DESIGN AND INTERDISCIPLINARY COMMUNICATION ON ESTHETIC DENTISTRY

The goal is to design a smile that fits the patient's functional, esthetic and emotional needs. Modern techniques and materials can be useless if the final outcome doesn't achieve the patient's esthetic expectations. Emphasis will be given to the utilization of digital tools to enhance and facilitate the team's work and communication with the patient. The protocol proposed will improve the diagnosis, communication and predictability of esthetic rehabilitations.



CHRISTIAN COACHMAN, DDS, CDT

Dr. Christian Coachman received his dental degree from the University of São Paulo in 2003 and his dental technology certificate from Rocha Marmo School, also in São Paulo, Brazil. He completed the Dental Ceramic Specialization Program at the Ceramcoat training center led by Dr. Dario Adolphi. He opened his own laboratory in 1996. Dr. Coachman is a member of the Brazilian Academy of Esthetic Dentistry. He has worked as ceramist for Team Atlanta (Drs. Ronald Goldstein, David Garber, Maurice Salama and Henry Salama) for over four years. He has lectured and published internationally in the fields of oral esthetic rehabilitation, dental ceramics and implants.

10:30 – 11:15am

THE GRAY ZONE AROUND DENTAL IMPLANTS: KEYS TO ESTHETIC SUCCESS

Single-implant restorations in the anterior maxilla have become a routine treatment. While customized tooth-colored prosthetic components have greatly improved clinical outcomes, esthetic success is not limited to the restorative result but must include soft-tissue aspects. A common esthetic shortcoming is the grayish appearance of the peri-implant soft tissues, which, however, are difficult to manipulate around dental implants. Influencing parameters for esthetic success and clinical guidelines to avoid the "gray zone" around dental implant restorations can be summarized and categorized into five key factors.



INAKI GAMBORENA, DMD, MSD

Since 2001, Dr. Inaki Gamborena has been an affiliate professor in the Department of Restorative Dentistry at the University of Washington Dental School, Seattle. Since 2007, he has been a Clinical Assistant Professor in the Department of

Preventive and Restorative Sciences at the University of Pennsylvania School of Dental Medicine, Philadelphia. Dr. Gamborena has been an active member of the European Academy of Esthetic Dentistry since 2002. He maintains a private practice in San Sebastian, Spain, dedicated to esthetics, restorative dentistry and implants.

10:10 – 10:30am

INNOVATIONS IN DIGITAL DENTISTRY – IMPLICATIONS OF THE THIRD DIMENSION DURING THE DIAGNOSTIC PHASE

3-D medical imaging technology allows for detailed assessments of patient anatomy and respective relations to individual prosthetic needs prior to invasive treatments. Daily clinical application of today's available solutions, however, still remain a challenge for the general dentist, the prosthodontist and the dental technician. What can be done to overcome these obstacles?



PASCAL KUNZ, MD, DDS

Dr. Pascal Kunz received his medical degree (1996) and dental degree (2001) from the University of Basel, Switzerland. He has worked clinically as an MD in several hospitals (1996 – 2001), as a dentist in private practice (2001 – 2004) and

in the faculty of Reconstructive Dentistry, University of Basel (2004 – 2007). Dr. Kunz joined Nobel Biocare Headquarters (Zurich) in 2007, where he is part of the global product management team focusing on digital diagnostics and guided surgery.

Educational Program & Abstracts

FRIDAY, FEBRUARY 24, 2012

11:20am – 12:20pm

CONVENTIONAL FIXED PROSTHODONTICS IN THE IMPLANT ERA

Prior to the early 1980s in the United States, before endosseous implants had arrived, all fixed prosthetic restorations relied on teeth to serve as the abutments. In the almost 30 years since, tooth replacement with implants has taken over the field of prosthodontics. So much so that it is possible to find some clinicians who view the placement of a conventional fixed prosthesis as about as appropriate as using gold foil. Yet the world of implants is not always a predictable one, especially when it comes to anterior esthetic outcomes. This presentation will look at the role of conventional fixed prosthodontics in today's world and identify when they may still be the preferable treatment alternative. In addition this presentation will look back at what we learned about the success and failure of conventional approaches to fixed prosthodontics by reviewing multiple cases from the pre-implant era and how they have performed over the last 25 years. In the end the audience will have a better understanding of how to predict if a conventional tooth supported approach may be preferred and how to understand the risk of future failure.

Attendees will learn:

- When a conventional approach is esthetically superior to an implant supported fixed prosthesis
- What to evaluate in assessing the risk of future failure when considering a conventional tooth supported fixed prosthesis
- When it may be appropriate to use a combined tooth and implant supported prosthesis even today



FRANK SPEAR, DDS, MSD

Dr. Frank Spear is one of the premier educators in esthetic and restorative dentistry in the world today. He earned his dental degree and an MSD in Periodontal Prosthodontics from the University of Washington.

Dr. Spear is an Affiliate Professor in Graduate Prosthodontics at the University of Washington and maintains a private practice in Seattle limited to esthetics and fixed prosthodontics. He is founder and director of Spear Education.

Dr. Spear has presented more than 2,000 days of continuing education in North America, Europe and Asia. He has received the Christensen Award for Excellence in Restorative Education, the American Academy of Cosmetic Dentistry Achievement Award, the Schluger Award for Excellence in Diagnosis and Treatment Planning and the American Academy of Esthetic Dentistry President's Award for Excellence in Dental Education.

Special Events

APS Business Meeting & Luncheon

All registered attendees are invited to join the APS officers for the annual business meeting and luncheon. Students may purchase a ticket to join the group for \$25.

Thursday, February 23, 2012

12:15 – 2:00pm

Fairmont Chicago, Moulin Rouge

Spouse Breakfast

All registered spouses are invited to a special breakfast.

Friday, February 24, 2012

9:00am

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Disclosures

This educational forum will comply with appropriate disclosure policies as set forth by the American Dental Association's code of ethics and professional standards. The 2012 APS speakers will verbally disclose any material, financial or other relationships that pose a potential conflict of interest. Such disclosures may also be included in written form within the on-site final program. Speakers will also disclose any unapproved use of products or devices that they will be discussing. Disclosure requirements are not intended to imply any impropriety, but rather to inform the audience that they exist.

SPEAKER CONFLICT DISCLOSURES

The following speakers have indicated no potential conflict of interest(s) exists:

Giuseppe Allais, DDS
German Gallucci, DMD
Walter Gebhard, MDT
Dominik Mahl
Alireza Moshaverinia, DDS, MS

Nelson Silva, DDS, MSc, PhD
Frank Spear, DDS, MSD
Christian Stohler, DMD
Ali Tahmaseb, DDS, PhD
Van Thompson, DDS, PhD

The following speakers have disclosed these relationships which may pose a conflict of interest:

Tomas Albrektsson, MD, PhD, ODhc
Company: Astra Tech, Southern Implants, Nobel Biocare, Exopro
Relationship: Consultant

Kirk Behrendt, BS
Company: ACT Dental
Relationship: Owner

Sillas Duarte, DDS, MS, PhD
Company: 3M ESPE, Ivoclar Vivadent, DMG
Relationship: Speakers Bureau/Lecturer, Education/Research/Grant

Stephen Chu, DMD, MSD, CDT
Company: Denstply, BIOMET 3i, Keystone Dental, Dentium
Relationship: Consultant, Speakers Bureau/Lecturer, Education/Research/Grant

Christian Coachman, DDS, CDT
Company: Ivoclar Vivadent
Relationship: Consultant, Honorarium, Speakers Bureau/Lecturer

Nels Ewoldsen, DDS, MSD
Company: GC America
Product: Product Advisory Board
Relationship: Consultant, Speakers Bureau/Lecturer

Inaki Gamborena, DMD, MSD
Company: Nobel Biocare
Product: Implants
Relationship: Consultant

Pascal Kunz, MD, DDS
Company: Nobel Biocare
Relationship: Employee

Peter Moy, DMD
Company: Nobel Biocare, Southern Implants, Osstell, Medtronic
Product: Dental Implants, Resonance Frequency Analyzer, Medical Device

Jin-Ho Phark, DDS, Dr. Med. Dent.
Company: 3M ESPE, Ivoclar Vivadent, DMG
Relationship: Consultant, Education/Research/Grant

Enrico Steger, MDT
Company: Zirkonzahn SRL
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Arnold Wohlwend, CDT
Company: Ivoclar Vivadent
Relationship: Honorarium

Exhibits and table clinics will be held in St. Gallen and Montreaux Ballrooms.

Thursday, February 23, 2012

5:30 – 8:00pm

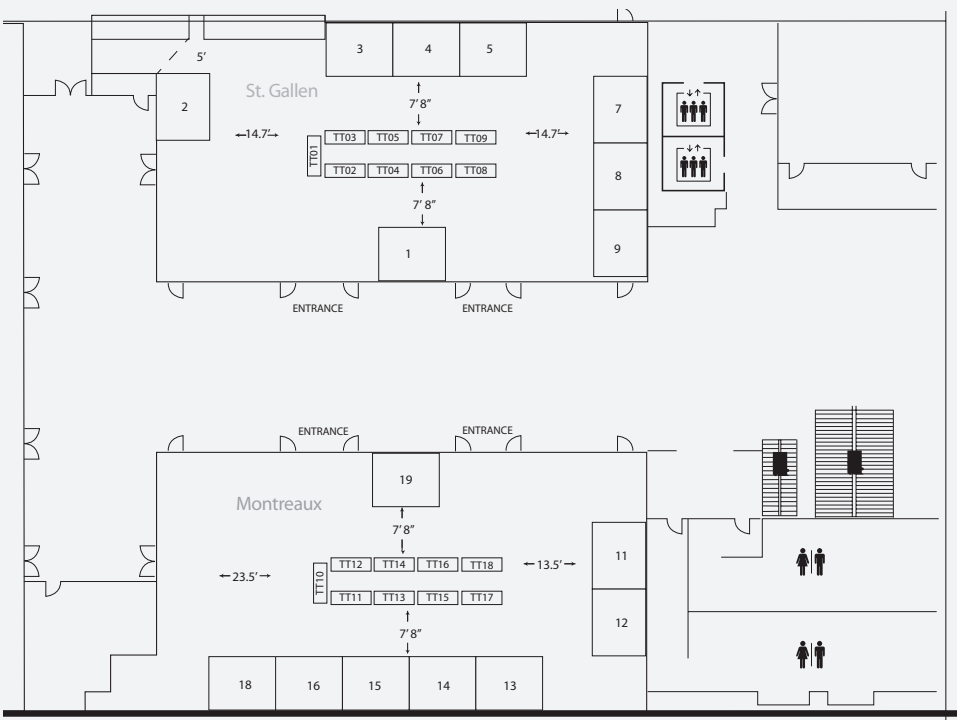
Reception and table clinics in the exhibit hall.

Friday, February 24, 2012

7:00 – 11:00am

Continental breakfast, AM coffee break and table clinics in the exhibit hall.

EXHIBITOR FLOOR PLAN



Exhibitor Directory

Astra Tech #4

590 Lincoln Street

Waltham, MA 02451

Phone: 800.531.3481

Website: www.astratechdental.com

Astra Tech provides comprehensive solutions including the Astra Tech Implant System™, Atlantis™ patient-specific abutments, Cresco™ and Facilitate™ to bring you the freedom of unlimited possibilities and documented long-term implant treatment outcomes.

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Website: www.brasselerusa.com

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Web: www.dentsply.com

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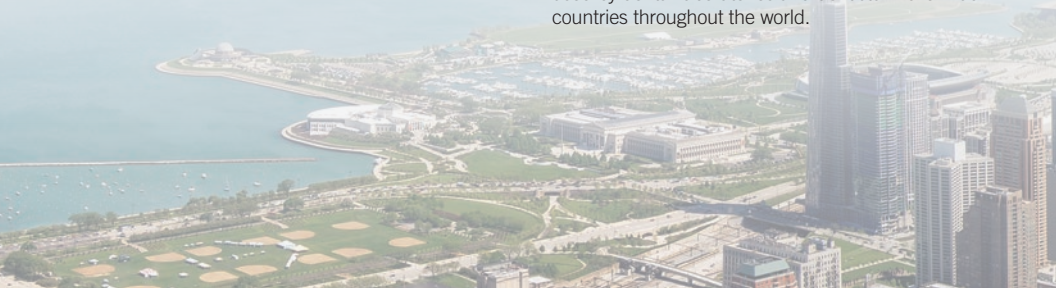
175 Pineview Drive

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Phone: 800.533.6825

Website: www.ivoclarvivadent.com

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Exhibitor Directory

Keystone Dental #18

144 Middlesex Turnpike
Burlington, MA 01803
Phone: 866.902.9272
Website: www.keystonedental.com

Keystone Dental is an oral healthcare company dedicated to enhancing every patient smile by creating innovative solutions that restore the natural aesthetics of tissue, bone and teeth. Keystone Dental's product portfolio includes Genesis, The Biomimetic Implant System, The Prima Implant System, DynaMatrix Extracellular Membrane, DynaBlast bone graft substitute and Accell Connexus, a next-generation BMP enhanced bone grafting product. Founded in 2006, Keystone Dental is committed to revolutionizing dental care by bringing joy to every patient experience.

Nobel Biocare #19

22715 Sari Ranch Parkway
Yorba Linda, CA 92887
Phone: 800.993.8100
Website: www.nobelbiocare.com

Nobel Biocare is the world leader in innovative and esthetic dental solutions. The Company provides dental professionals with state of the art science-based root-to-tooth solutions, including dental implants, all-ceramic crowns, bridges and laminates, guided surgery planning, scanners, and biomaterials.

Quintessence #5

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Hanover Park, IL 60133
Phone: 630.736.3600
Website: www.quintpub.com

Quintessence is an international publisher of books, journals and multimedia products, specializing exclusively in Dentistry, featuring the latest titles in all disciplines. Visit our booth to review our many new titles and multimedia products and pick up sample copies of a selection of our journals.

Sirona Dental Systems #14

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Awards



Golden Medallion Award

*Tomas Albrektsson, MD,
PhD, ODhc*

The Golden Medallion Award is issued periodically to individuals whose contributions to prosthodontics have been exceptional. The American

Prosthodontic Society is proud to present the Golden Medallion Award to Dr. Tomas Albrektsson of Sweden. Learn more about Dr. Albrektsson on page 8.

Previous Golden Medallion Winners:

Dr. Thomas Taylor – 2011

Dr. Charles Goodacre – 2010

Dr. John W. McLean – 2009

Dr. George Zarb – 2008

Dr. Howard A. Landesman – 2007

Dr. Peter E. Dawson – 2006

The APS wishes to express appreciation to the American Prosthodontic Foundation for their continued financial support of the Golden Medallion Award. Additionally, Nobel Biocare is highly acknowledged for their support in underwriting additional expenses related to this award.



American Prosthodontic Foundation



Kenneth D. Rudd Award

Arnold Wohlwend, CDT
The American Prosthodontic Society, in conjunction with the Editorial Council of the *Journal of Prosthetic Dentistry*, is proud to present the eighth Kenneth D. Rudd Award to Arnold Wohlwend,

CDT. This award was created to honor a dental technologist who has made a significant contribution to the advancement of the dentist-dental laboratory technologist team concept and who has made an impact in the prosthodontic and dental laboratory communities. Learn more about Mr. Wohlwend on page 9.

Previous Kenneth D. Rudd Award Winners:

Mr. Vincent V. Alleluia, MDT, CDT, TF – 2011

Mr. Matt Roberts, CDT – 2010

Mr. Willi Geller – 2009

Mr. Roosevelt Davis, MCDT, MS – 2008

Mr. Lee Culp, CDT – 2007

Mr. Robert Berger, CDT – 2006

Mr. Masahiro Kuwata – 2005

Thank you to the Editorial Council of the *Journal of Prosthetic Dentistry* for their generous support of this award.

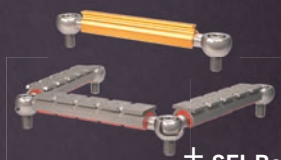


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Table Clinic Program

Table Clinics will run in conjunction with the commercial exhibits in St. Gallen and Montreaux Ballrooms.

This program is generously supported through an educational grant from **For better dentistry**



Thursday, February 23, 2012

5:30 – 8:00pm

1. **Alexander Deak, Med. Dent.** *DD 1: Prep, Scan & Go*
2. **Fabienne Glenz, Med. Dent.** *DD 2: Screw, Scan & Go*
3. **Barbara Solt, Dr. Med. Dent.** *DD 3: Prep-Scan-Fix*
4. **Nathalie Oppliger, Med. Dent.** *DD 4: Screw-Scan-Fix*
5. **Patrik Lenherr, Med. Dent.** *DD 5: A Perfect Copy of the Provisional?*
6. **Christina Luzi, Dr. Med. Dent.** *DD 6: Zirconia – Without Limits?*
7. **Philipp Dedem, Dr. Med. Dent.** *DD 7: Virtual “Michigan Splint”?*
8. **Gloria Margarita García Cuanalo, DDS** *Complete Rehabilitation Based on the Functional and Aesthetic Guidelines*
9. **Celin Arce, DDS** *Establishing Soft Tissue Integration with Customized CAD/CAM Tooth Shaped Abutments for Posterior Implants*
10. **Jamie Hofmeister, DDS** *Dental Management of Patients on Bisphosphonate Therapy*
11. **Paulina Luzuriaga, DDS** *Prosthetic Rehabilitation and Chair Dental Management of a Partially Edentulous Patient with Polymyositis*
12. **Sebastian D. Horvath, DMD** *3-D Analysis of the Correlation Between Anterior Tooth Form and Face Shape*
13. **Virginia del C. López Jiménez, DDS, DMD** *All-on-4*
14. **Lauren M. Bolding, DDS** *Restoration of a Periodontally Compromised Maxillary Arch – A Staged Approach*
15. **Ernesto Urbina, DDS** *Ectodermal Dysplasia*
16. **Imelda P. Pinzon, DDS** *Rehabilitation of Angulated Implants in the Esthetic Zone*
17. **Ivonne A. Salazar, DDS** *Interdisciplinary Treatment Approach of a Complete Oral Rehabilitation*
18. **Garima K. Talwar, DDS** *The Effect of Electrical Stimulation on Healing of Bone Grafts: A Pilot Study*

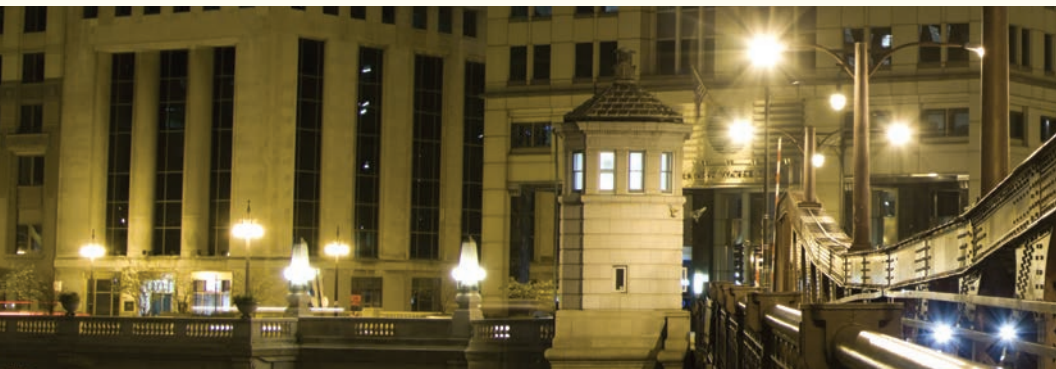
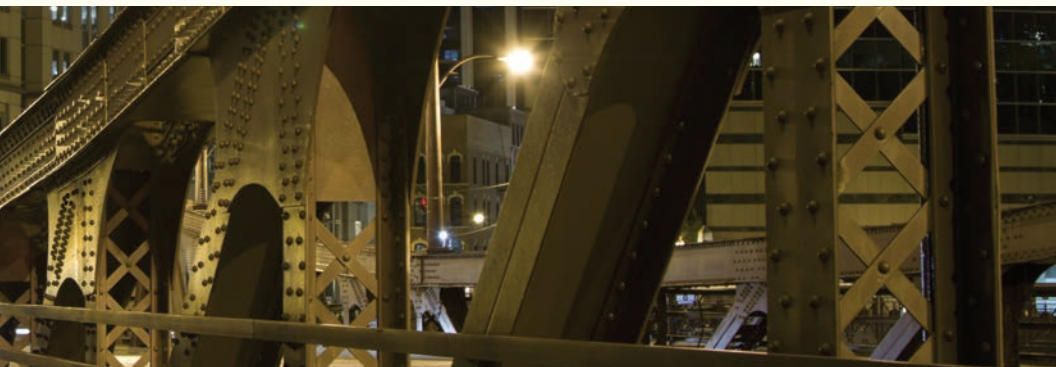


Table Clinic Program

Friday, February 24, 2012

7:00 – 8:00am and 9:40 – 10:10am

19. Hai Qing, DDS, PhD *Aesthetic Restoration of Diastema and Tooth Discoloration Using Lithium Desilicate 3/4 Veneer*
20. Kazunori Ikebe, DDS *Personality and Satisfaction with Chewing Ability Among Community-Dwelling 70-Year-Old Japanese*
21. Ma. de Lourdes Reyes Soto, DDS *Provisional Denture to Reprogram Neuromuscular Centric Relation*
22. Mario Rotella, DDS *A Novel Approach to the Study of High-Speed Tooth Preparation*
23. Hsin Yu Kuo, DDS, MS *A Clinical Case Report – The Conical Double-Crown Telescope Removable Partial Denture*
24. Mireia Aldana Izquierdo, DDS *CR-CO (MIP) Discrepancy and Its Consequences*
25. Maria Gabriela Romero Guerrero, DDS *Restoration of the Severely Worn Dentition Using a Systematized Approach for a Predictable Prognosis*
26. Utumporn Rangsisiripaiboon, DDS *Immediate Implant Placement and Provisionalization in Esthetic Zone: Case Series*
27. Jonathan H. Kelley *Generating an Ideal Occlusal Plane with a Maxillary Full Denture over a Cast-Metal Overlay Partial Denture*
28. Miryam Mendoza, DDS *CAD/CAM Technology: Challenges and Solutions in the Design and Milling of an Intracoronar Attachment as a Stress-Breaker on a Zirconia Prettau Fixed Restoration*
29. Diego Palazuelos López Laura, DDS *Management of Anterior Segment with Two Implant Placement in Patient with Bone Loss in Anterior Teeth*
30. Namrata Nayyar, BDS, MS *Two Appointment Digital Dentures*
31. Joonho Yoon, DDS *Analysis of Prosthodontic Publications from US Institutions for Last 10-Year Period*
32. Anna N. Przyszlak, DDS *Functionally Generated Pathway for a Single Complete Denture*
33. Mohammed K. Fahmi, DDS *Effect of Aging on Veneer Porcelain Bond Strength to Zirconia*
34. Mohammed Baig, BDS *Full Mouth Rehabilitation of a Periodontally Compromised Patient Using Dental Implants*
35. Michael S. Moscovitch, DDS *Digital Prosthodontics and Zirconia: The New Reality*
36. Claudia B. Escobar, DDS *Buccal Integral Rehabilitation*



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* Deceased

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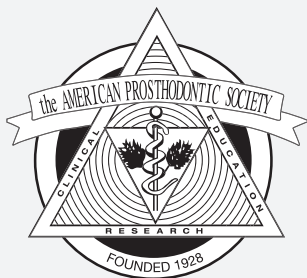
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