



CHICAGO 2013

the AMERICAN PROSTHODONTIC SOCIETY



Final Program

85th ANNUAL MEETING OF
THE AMERICAN PROSTHODONTIC SOCIETY

FEBRUARY 21-22, 2013 • SWISSÔTEL
CHICAGO, ILLINOIS

CHECK OUT NEW TITLES in PROSTHODONTICS from QUINTESSENCE

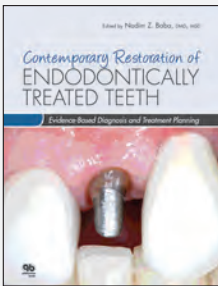


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Understand the essential principles of multidisciplinary implant treatment.

792 pp; 1,560 illus (mostly color);
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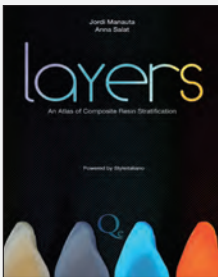


Contemporary Restoration of Endodontically Treated Teeth: *Evidence-Based Diagnosis and Treatment Planning*

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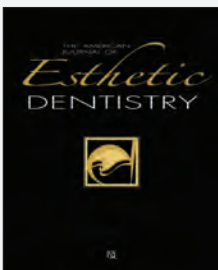


Layers: *An Atlas of Composite Resin Stratification*

Jordi Manauta and Anna Salat

Explore the stratification of natural tooth and learn how to arrange layers of composite resin to mimic it.

448 pp; 1,234 color illus;
ISBN 978-8-87492-173-7 (B9520); **US \$228**



The American Journal of Esthetic Dentistry

Editor-in-Chief: Richard J. Simonsen

Volume 3, 2013 Subscription Rates

4 issues/year print and online	North America* (USA, Canada, Mexico)
Individual	\$188.00
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the AMERICAN PROSTHODONTIC SOCIETY

Welcome to the 85th 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 14.5 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

APS gratefully acknowledges the support and generosity of the following sponsoring companies:

PLATINUM SPONSORS



Exhibition Hall

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

Thursday, February 21, 2013

5:15 – 7:45pm

Reception and table clinics in the exhibit hall

Friday, February 22, 2013

7:00 – 11:00 am

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

2013 APS Exhibitors

Thank you to the following exhibiting companies:

- **BioHorizons**
- **Brasseler USA**
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APS does not endorse any specific company, product, service or advertisement.

Program Schedule At-a-Glance

Registration: 2nd Floor Event Center

General Session: Vevey Ballroom

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

Business Meeting Luncheon: Grand Ballroom

WEDNESDAY, FEBRUARY 20, 2013

4:00 - 7:00pm Registration Open

THURSDAY, FEBRUARY 21, 2013

7:00 - 8:00am Continental Breakfast and Registration Open

8:00am Call to Order/Opening Remarks

Moderator: Harold Preiskel, MDS, MSc, FDS, RCS

8:05 - 8:15am Presentation of the Golden Medallion

8:20 - 8:40am **Yasumasa Akagawa, DDS, PhD**
Golden Medallion Awardee
Prosthodontic Value – Its Reality

8:45 - 9:15am **Terry Donovan, DDS**
Management of Dental Erosion

9:20 - 9:50am **David Bartlett, BDS, MRD, PhD**
Wearing Away – Management of the Worn Dentition and Dilemmas Facing Clinicians

9:50 - 10:10am **Panel Discussion**

10:10 - 10:30am Coffee Break

Moderator: Steven Sadowsky, DDS

10:30 - 10:45am **Kevin Lin, DDS**
Graduate Prosthodontic Presentation
Accurate Radiographs in Implant Restorations Using a Novel X-ray Paralleling Device

10:45 - 11:15am **Chandur Wadhvani, DDS**
Restoratively-Driven Implant Failure

11:20 - 11:50am **Sanjeev Gandhi, BDS**
Yoga for Improved Wellness

11:50am - 12:05pm **Wendy Gregorius, DDS, MSD**
Graduate Prosthodontic Presentation
Effects of Aging and Staining on Color of Acrylic Resin Denture Teeth

12:15 - 2:00pm Business Meeting Luncheon
Sponsored by 3M ESPE
(All attendees invited. Student ticket is \$75.)

Moderator: Todd Fridrich, CDT

2:00 - 2:15pm **Yung Kyun Kim, DDS**
Graduate Prosthodontic Presentation
Immunohistofluorescence and MRNA Expression of Bone Markers During Early Healing Around Dental Implants: A Novel Approach in Miniature Pigs

2:15 - 2:20pm Presentation of the Rudd Award

2:20 - 2:50pm **Elizabeth Curran, CDT, RDT**
Rudd Awardee
Unskilled: Implications of the Bureau of Labor Statistics Reclassification of Dental Laboratory Technicians

2:50 - 3:05pm Coffee Break

Moderator: Carlo Marinello, Dr. Med. Dent., MS

3:05 - 3:35pm **HP Weber, DMD**
Digital Planning for Dental Implants: Pros and Cons

3:40 - 4:10pm **Kirk Pasquinelli, DDS**
Implants: Soft Tissue Issues

4:15 - 4:45pm **Joseph Kan, DDS, MS**
Esthetic Considerations in Anterior Immediate Tooth Replacement

4:45 - 5:15pm **Panel Discussion**

5:15pm Sessions Adjourn

5:15 - 7:45pm Reception and Table Clinics in the Exhibit Hall

FRIDAY, FEBRUARY 22, 2012

7:00 - 8:00am Continental Breakfast and Table Clinics in the Exhibit Hall

Moderator: Izchak Barzilay, DDS, MS

8:00 - 8:10am Presentation of Graduate Prosthodontic Research Award

8:10 - 8:40am **Alon Preiskel, BDS, MRD**
Restore or Replace: The Prosthodontic Dilemma

8:45 - 9:15am **Syngcuk Kim, DDS, PhD**
Microscopes in Endodontics and Endodontic Microsurgery

9:20 - 9:50am **John Sorensen, DMD, PhD**
Current Perspectives on the Restoration of Endodontically Treated Teeth

9:50 - 10:10am **Panel Discussion**

10:10 - 10:40am Coffee Break and Table Clinics in the Exhibit Hall

Moderator: John Ball, DDS

10:40 - 10:50am Presentation of Table Clinic Awards

10:50 - 11:20am **Jonathan Ferencz, DDS**
High-Strength Ceramic Fixed Partial Dentures: Today's Treatment Options

11:25 - 11:55am **Ariel Raigrodski, DMD, MS**
The Evolving Role of Zirconia in Dentistry

12:00 - 12:30pm **Kenneth Malament, DDS, MScD**
Integration of Esthetic Dentistry and Prosthodontics

12:30 - 1:00pm **Panel Discussion**

1:00pm Meeting Adjourns

Educational Program & Abstracts

View the event schedule and speaker information on your mobile device:

All information may be accessed at messageblocks.com/prostho



THURSDAY, FEBRUARY 21, 2013

8:20 – 8:40am (Golden Medallion Awardee)

PROSTHODONTIC VALUE – ITS REALITY

In consideration of the rapidly progressing aging of society, the current goal of prosthodontic care has been regarded as to create health and longevity of the patients through restorative function and esthetics by prosthesis. In this presentation, the impact of denture use on general health and innovative biomaterials will be discussed to enrich prosthodontic value.

At the conclusion of this session, participants will be able to:

- Confirm the goal of prosthodontic care
- Understand the impact of denture use on general health
- Understand the dental implant in the new future



YASUMASA AKAGAWA, DDS, PHD

Dr. Akagawa earned his PhD degree in dentistry in 1980 from Hiroshima University in Japan. Since 1993 he has been a professor and chair of prosthodontics at Hiroshima University. He was president of the Japan Prosthodontic Society from 2003-2005 and co-president of International College of Prosthodontists from 2002-2003. He has published extensively in peer-reviewed journals.

Rate this session:



8:45 – 9:15am

MANAGEMENT OF DENTAL EROSION

Patients in North America are currently suffering from what might be called an epidemic of dental erosion. Many dentists incorrectly diagnose this erosion as “wear.” Most North American dentists when confronted with a patient with advanced tooth wear attribute the loss of tooth structure to bruxism and parafunction and do not consider the contribution of acid erosion to the problem. This presentation will identify groups of patients at risk for erosion, describe the main types of erosion and suggest strategies for prevention and management of dental erosion.

At the conclusion of this session, participants will be able to:

- Understand the prevalence of dental erosion and its contribution to advanced tooth wear
- Understand the different presentations of intrinsic and extrinsic erosion
- Implement preventative strategies to manage erosion



TERRY DONOVAN, DDS

Dr. Terry Donovan received his DDS from the University of Alberta in 1967 and practiced full time in Regina, Saskatchewan for 13 years. He received his Certificate in Advanced Prosthodontics from the University of Southern California in 1981. He was

formerly Professor and Director of the Advanced Education in Prosthodontics Program at USC and was Chair of the Department of Restorative Dentistry there for many years. He was also the Associate Dean for General Practice and Executive Associate Dean for Academic Affairs. He is currently Professor and Section Head for Biomaterials, Department of Operative Dentistry at the University of North Carolina School of Dentistry at Chapel Hill. He has published extensively and has lectured worldwide on restorative dentistry and materials science.

Rate this session:



Educational Program & Abstracts

THURSDAY, FEBRUARY 21, 2013

9:20 – 9:50am

WEARING AWAY – MANAGEMENT OF THE WORN DENTITION AND DILEMMAS FACING CLINICIANS

The lecture will provide a brief overview of the causes of tooth wear and in particular erosion using clinical examples throughout. A summary of the principles of prosthodontic rehabilitation will appraise the advantages and disadvantages of care with a discussion of the clinical evidence and a personal clinical view. Tooth wear is a complex prosthodontic challenge and this lecture will discuss the management options in the light of the aetiology and give examples of risk factors.

This session will cover:

- A brief overview of the causes of tooth wear and in particular erosion
- A summary of the principles of prosthodontic rehabilitation
- A new look at the outcome of the restorations involved with reconstruction



DAVID BARTLETT, BDS, MRD, PhD

Professor David Bartlett is Head of Prosthodontics at Kings College London Dental Institute. Professor Bartlett has published over 100 research publications, written three books and numerous chapters, been awarded grants nearly reaching £2M and overseen six PhD students and over 20 master student theses. He is treasurer for the British Division of IADR and Chair of the SAC in Restorative Dentistry, which coordinates specialist training in the UK. He is also chair of the ethics committee of Guy's Hospital.

Professor Bartlett is a consultant in Restorative Dentistry and a specialist in Prosthodontics after completing specialist training in 1999 at Guy's Hospital and is now a senior clinician at the Dental School. His expertise is internationally recognized particularly in the treatment of tooth wear.

Rate this session:



10:30 – 10:45am (Graduate Prosthodontic Presentation)

ACCURATE RADIOGRAPHS IN IMPLANT RESTORATIONS USING A NOVEL X-RAY PARALLELING DEVICE

Intraoral radiographs provide a convenient way to evaluate the health of the alveolar bone around dental implants and the status of the fixture-abutment junction. In order to monitor such changes consistently, a novel radiographic device is developed to fit with commercially available film holders. By indexing the implant fixture to the adjacent dentition, accurate orthogonal radiographs can be made to monitor changes in bone architecture and prosthetic misfit predictably over time.

At the conclusion of this session, participants will be able to:

- Recognize the clinical challenges with intraoral radiography
- Obtain diagnostic intraoral radiographs consistently
- Detect implant prosthetic misfit and monitor peri-implant crestal bone loss predictably



KEVIN LIN, DDS

Dr. Lin graduated with honors from the University of California, Davis with a double major in biological sciences and psychology. He received his DDS from the University of California, Los Angeles in 2010 and was awarded the Yoshio Yamaguchi Scholarship

and Outstanding Performance in Biomaterials. He is a 3rd year resident in the University of California, San Francisco prosthodontics program.

Rate this session:



Educational Program & Abstracts

10:45 – 11:15am

RESTORATIVELY-DRIVEN IMPLANT FAILURE

Cement-retained implant restorations have become increasingly popular. Procedures and materials used for the natural dentition do not cross over to the restoration of an implant. In fact, cementation procedures may have a detrimental effect on the health of tissues that support the implant. A science-based approach with practical solutions will be discussed, highlighting problems with cement selection, application techniques and implant abutment design.

At the conclusion of this session, participants will be able to:

- Understand why implants are susceptible to excess cement extrusion
- Gain ideas for cement selection and criteria
- Understand how solutions can reduce this issue



CHANDUR WADHWANI, DDS

Dr. Chandur Wadhvani received his BDS from the University College School of Dentistry with an honors degree. He received his Prosthetic certificate with a master's degree in Dentistry from the University of Washington. He is currently involved

with several research projects related to implant restorations, working with the departments of Periodontics, Restorative and Endodontics at the University. He has published multiple research and technique papers in peer-reviewed journals and lectures nationally and internationally. He is in full-time private practice in Bellevue, Washington.

Rate this session:



11:20 – 11:50am

YOGA FOR IMPROVED WELLNESS

Dr. Gandhi will discuss the therapeutic values of yoga. Asanas (postures) and meditation techniques to assist dental practitioners will be presented. Yoga is a system of breathing techniques and body postures. Circulation and respiration are enhanced by asanas. Neck and back pain are related to stiffness in the shoulder, a common finding in dentists. Dr. Gandhi will demonstrate asanas for overcoming rigidity in the upper thoracic and sacroiliac region. Yogic postures are totally non-invasive, corrective, gentle and soothing and the practice of yoga instills confidence in a person, especially during recovery from illness. Oregon Health & Science University reported that a six-month program on Iyengar yoga helped patients with multiple sclerosis and combat fatigue and increased energy levels and quality of life among healthy seniors.

At the conclusion of this session, participants will be able to:

- Understand the benefits of yoga
- Be introduced to simple asanas to help dentists improve posture
- Learn how yoga may help with reducing back and neck pain for dentists



SANJEEV GANDHI, BDS

Dr. Sanjeev Gandhi has been practicing general dentistry in central Mumbai (Bombay) for the past 25 years. After graduating from the Government Dental College and Hospital (University of Bombay), he completed a general

practice residency. He is the owner of one of the first multi-specialty practices in India that has a visiting periodontist, prosthodontist, oral surgeon, orthodontist and endodontist. About 16 years ago Dr. Gandhi was introduced to yoga and he has been a practicing Iyengar yoga student since. Born into a family involved with theatre and Bollywood, he has acted in plays and has had a leading role in a Bollywood film.

Rate this session:



Educational Program & Abstracts

THURSDAY, FEBRUARY 21, 2013

11:50am – 12:05pm

(Graduate Prosthodontic Presentation)

EFFECTS OF AGING AND STAINING ON COLOR OF ACRYLIC RESIN DENTURE TEETH

The objective of this study was to assess the color stability of high-strength acrylic resin denture teeth after exposure to red wine, coffee and artificial aging. In the staining experiment, the main effects of stains and denture teeth and the two-way and three-way interactions among stains, denture teeth and shades were significant ($P < 0.05$). The same was true for the main effects of denture teeth and shades and their interactions in the aging experiment. Selection of a color-stable and stain-resistant denture tooth can contribute to denture longevity and overall patient satisfaction.

At the conclusion of this session, participants will be able to:

- Select a denture tooth based on patient wear, maintenance and exposure to stains



WENDY GREGORIUS, DDS, MSD

Dr. Gregorius attended Loma Linda University School of Dentistry, where she received her dental degree in 2007, a certificate in prosthodontics in 2011 and a Master of Science in Dentistry degree in 2012. Following graduation from dental school, she completed a general practice

residency in 2008 at the JLP Memorial VA Medical Center in Loma Linda, California. Dr. Gregorius currently works as an assistant professor for Loma Linda University School of Dentistry.

Rate this session:



2:00 – 2:15pm (Graduate Prosthodontic Presentation)

IMMUNOHISTOFLUORESCENCE AND MRNA EXPRESSION OF BONE MARKERS DURING EARLY HEALING AROUND DENTAL IMPLANTS: A NOVEL APPROACH IN MINIATURE PIGS

The aim of this study was to optimize the methodology of investigating bone marker expression during the early stages of bone healing around dental implants by means of real-time PCR and immunohistochemistry in miniature pigs. In addition, this study model was utilized to evaluate the early bone response to the TiZr 13/17 alloy (Roxolid®).

At the conclusion of this session, participants will be able to:

- Grasp how bone marker expression can be investigated during the early stages of bone healing around dental implants by means of real-time PCR and immunohistochemistry in miniature pig model



YUNG KYUN KIM, DDS

Dr. Kim is a third-year resident at the University of Connecticut Advanced Education Program in Prosthodontics. He attended SUNY Stony Brook University for a BS in Biochemistry and his DDS.

Rate this session:



Educational Program & Abstracts

2:20 – 2:50pm (Rudd Awardee)

UNSKILLED: IMPLICATIONS OF THE BUREAU OF LABOR STATISTICS RECLASSIFICATION OF DENTAL LABORATORY TECHNICIANS

The US Bureau of Labor Statistics, Department of Labor updated the system for classifying all occupations. The objective of the new system is to identify the education and training needed to be hired and to become competent as a technician. The new classification for the dental laboratory technician lists dental laboratory technology as an unskilled occupation. What are the effects of this new classification on recruitment, formal education, state funding and immigration?

At the conclusion of this session, participants will be able to:

- Understand the current classification for dental laboratory technicians
- Recognize the implication on recruitment, education, state funding and immigration for the occupation
- Learn how the profession is working to address the crisis of this classification



ELIZABETH CURRAN, CDT, RDT

Elizabeth Curran is a board certified Dental Laboratory Technician specializing in dental ceramics with a 38-year tenure as a technician. She is a formally educated dental laboratory technician and dental educator, holding a lifetime teaching

credential from the state of California. Currently Ms. Curran is in her eighth year as an Assistant Professor and Director of Dental Laboratory Technology at A. T. Still University, Arizona School of Dentistry and Health in Mesa, Arizona.

Rate this session:



3:05 – 3:35pm

DIGITAL PLANNING FOR DENTAL IMPLANTS: PROS AND CONS

Prosthetically-driven implant placement has been a buzzword in the field for a while. Yet, implant malpositioning continues to be of concern, especially in sites with alveolar bone deficiencies. The main focus of this lecture will be to highlight the advantages of digital technology in implant site diagnostics and top down planning to enable desirable treatment outcomes.

At the conclusion of this session, participants will be able to:

- See the advantages of digital planning in implant dentistry
- Determine the clinical steps involved with digital planning for dental implants
- Interpret cone-beam CT deficiencies



HP WEBER, DMD

Dr. Weber is Professor and Chair of the Department of Prosthodontics and Operative Dentistry at Tufts School of Dental Medicine. He holds dental degrees from the University of Berne, Switzerland (1976) and the Harvard School of Dental Medicine

(1990), as well as certificates in Prosthodontics (1979) and Periodontology (1984) from the University of Berne. Besides his administrative duties as department chair, he is actively involved in research and teaching and sees patients for implant and prosthodontic care in part-time private practice.

Rate this session:



Educational Program & Abstracts

THURSDAY, FEBRUARY 21, 2013

3:40 – 4:10pm

IMPLANTS: SOFT TISSUE ISSUES

In the esthetic zone, the soft tissue form, appearance and volume around a tooth or implant can make the difference between what is perceived as esthetically pleasing or as an eyesore. This presentation will describe the soft tissue anatomy around implants, the surgical procedures to improve the appearance of these tissues and how restorations influence this tissue. Diagnosis and treatment of soft tissue deficiencies via restorative and surgical approaches will be explained through a review of several cases. The participant will gain an understanding of the relationship of bone and soft tissue to teeth and implants as well as how to manipulate the soft tissues in order to improve esthetic outcomes.

At the conclusion of this session, participants will be able to:

- Understand the anatomical relationship between bone and soft tissues surrounding teeth and implants and how it affects esthetics
- Describe when tissue augmentation procedures will be necessary to improve esthetic outcomes
- Know a variety of techniques to enhance the esthetic outcomes of restorations and natural teeth



KIRK PASQUINELLI, DDS

Dr. Pasquinelli maintains a full-time private practice in downtown San Francisco dedicated to periodontics and esthetic and pre-prosthetic oral surgery, as well as dental implants.

He is an Assistant Clinical Professor at the University of California at San Francisco School of Dentistry, Division of Graduate Prosthetics and has taught continuing dental education at both UCSF and the University of the Pacific School of Dentistry. He is on the faculty of the Interdisciplinary Dental Education Academy as well as the Foundation for Advanced Continuing Education. Dr Pasquinelli continues to teach select groups nationally and internationally and has authored numerous articles in the periodontal and restorative dentistry literature.

Rate this session:



4:15 – 4:45pm

ESTHETIC CONSIDERATIONS IN ANTERIOR IMMEDIATE TOOTH REPLACEMENT

Achieving anterior implant esthetics is a challenging procedure. Understanding the biologic and physiologic limitations of the soft and hard tissue will facilitate predictability in simple to complex esthetic situations. This lecture will focus on current implant treatment philosophies and methodologies for immediate tooth replacement in the esthetic zone.

At the conclusion of this session, participants will be able to:

- Identify prognostic variables for predictable anterior implant esthetics
- Identify how to manage the implant socket gap
- Identify how to minimize facial gingival recession following immediate implant placement



JOSEPH KAN, DDS, MS

Dr. Kan completed Prosthodontics and Implant Dentistry from Loma Linda University School of Dentistry. He is a Professor and maintains a private practice.

Rate this session:



Educational Program & Abstracts

FRIDAY, FEBRUARY 22, 2013

8:10 – 8:40am

RESTORE OR REPLACE: THE PROSTHODONTIC DILEMMA

The advent of osseointegration has produced a quantum leap in prosthodontic treatment capabilities. Originally conceived as an answer to the edentulous predicament, applications in the partially dentate situation, and even the single tooth replacement, all followed within a decade. A plethora of clinical evaluations has confirmed predictable treatment outcomes. When deciding whether to restore or replace, we need to assess the prognosis of tooth restoration compared to the prognosis of an implant replacement. The main factors discussed include restorative prognosis, implant prognosis, aesthetics, operator experience, psychology and costs: all tailored to the specific patient. This presentation, practical in nature, is aimed at today's practitioner with an interest in modern prosthodontics.

At the conclusion of this session, participants will be able to:

- Assess the key prognostic factors in tooth restoration
- Analyze seminal literature supporting implant restorations
- Examine patient factors influencing restorative decisions



ALON PREISKEL, BDS, MRD

Dr. Alon Preiskel is a registered specialist in fixed and removable prosthodontics. He is the Program Coordinator for the Implant Diploma at the Eastman Dental Institute and works in private practice in London. Dr. Preiskel graduated

dental school at Guy's Hospital and continued his professional training in oral and maxillofacial surgery and went on to teach oral surgery at King's College London Dental Institute. He completed his four-year specialist training program in Prosthodontics at Guy's Hospital, London and participated in an elective program with the Prosthodontics department at New York University. Dr. Preiskel has lectured frequently at national and international meetings. He is a committee member of both the American Prosthodontic Society and the International College of Prosthodontics.

Rate this session:



8:45 – 9:15am

MICROSCOPES IN ENDODONTICS AND ENDODONTIC MICROSURGERY

The microscope is nothing more than an instrument that provides magnification and illumination. However, these are the two most important elements for excellence in clinical endodontics. In nonsurgical endodontics the microscope allows you to identify the additional 4th canal in molar teeth and possible microfractures on a routine basis. In surgical endodontics, identification of the root tip and surrounding bone and details of the complex canal anatomy on resected root surfaces are possible. Endodontics without the microscope is good guesswork at best. With the implementation of the microscope, it is no longer guesswork. It is precise work, which allows for better outcomes. We at Penn say, "You do not treat what you do not see."

At the conclusion of this session, participants will be able to:

- Understand the advantages of using the microscope in endodontics
- Be familiar with endo microsurgery
- Recognize saving teeth using modalities



SYNGCUK KIM, DDS, PHD

Dr. Kim is the Louis I. Grossman Professor and Chairman of the Department of Endodontics and Associate Dean for Global Affairs at the School of Dental Medicine, University of Pennsylvania. He is renowned for his research in

dental pulp physiology and microcirculation and the AAE has awarded him the Louis I. Grossman Award for outstanding research and the Ralph F. Sommer Award as principal author of "publications of significance in the science and art of endodontics." Dr. Kim has delivered lectures and performed a live demonstration surgery at hundreds of universities, conferences, study clubs and professional associations in the US and abroad. Dr. Kim earned his dental degree and certificate in Endodontics from the College of Dental Medicine at Columbia University in New York. Dr. Kim also received his PhD in circulatory physiology from the Department of Physiology at the Medical School, Columbia University. In 2002 he received an honorary Medical Doctor degree from the University of Graz, Austria.

Rate this session:



Educational Program & Abstracts

FRIDAY, FEBRUARY 22, 2013

9:20 – 9:50am

CURRENT PERSPECTIVES ON THE RESTORATION OF ENDODONTICALLY TREATED TEETH

The application of biomechanical principles for assessment of remaining tooth structure to determine restorability, prognosis for longevity and alternative implant placement is presented. Concepts for design of extra-coronal and intra-coronal tooth preparation, post and core design are outlined along with materials selection criteria for posts, cores, cements and ceramic systems.

At the conclusion of this session, participants will be able to:

- Understand and apply biomechanical principles for evaluation of endodontically treated teeth to assess the remaining tooth structure to determine restorability, prognosis for longevity, design of extra-coronal and intra-coronal tooth preparation, necessity for and design of a post and necessity for and design of a core build-up
- Upon electing to extract, understand site assessment criteria for treatment planning concepts for implant placement
- Understand materials selection criteria for posts, cores, cements and ceramic systems



JOHN SORESEN, DMD, PHD

Dr. Sorensen is Acting Professor in the Department of Restorative Dentistry and Chair of the Clinics Revision Task Force, University of Washington. A Diplomate of the American Board of Prosthodontics, he limits his practice to prosthodontics. Dr. Sorensen has

published over 80 research articles and chapters and over 130 research abstracts.

Rate this session:



10:50 – 11:20am

HIGH-STRENGTH CERAMIC FIXED PARTIAL DENTURES: TODAY'S TREATMENT OPTIONS

This presentation will trace the development of high-strength ceramic systems that have been used for fixed partial dentures. Although there has been great progress in the utilization of zirconia as a reliable framework material, there has been much discussion about the frequency of chipping of the veneering ceramic in bilayer zirconia/veneer restorations.

The objective of this discussion is to review some of the materials and systems that have been used for fixed partial dentures (FPDs), examine their clinical performance and identify some novel approaches to enhance their success.

At the conclusion of this session, participants will be able to:

- Understand the clinical challenges when using high-strength ceramic materials for FPDs
- Recognize novel approaches and potential improvements



JONATHAN FERENCZ, DDS

Dr. Jonathan Ferencz graduated from Rensselaer Polytechnic Institute in 1967 and New York University College of Dentistry, receiving his DDS in 1971 and a certificate in Post-Doctoral Prosthodontics in 1984. He has been on the faculty at

New York University College of Dentistry since 1972, teaching all levels of Prosthodontics. In 1990, Dr. Ferencz became Clinical Professor of Post-Graduate Prosthodontics and was certified by the American Board of Prosthodontics in 1998 and recertified in 2007. He has maintained a private practice in New York City since 1972.

Rate this session:



Educational Program & Abstracts

11:25 – 11:55am

THE EVOLVING ROLE OF ZIRCONIA IN DENTISTRY

This presentation will discuss the properties of zirconia, as well as the results of clinical studies on zirconia-based restorations. The program will address the question of how the advent of CAD/CAM technology and various veneering porcelain application techniques may support the fabrication of these restorations as well as the fabrication of implant abutments and frameworks. Comprehensive cases will be presented to demonstrate the use of zirconia as part of an interdisciplinary treatment approach.

At the conclusion of this session, participants will be able to:

- Begin to understand the unique properties of zirconia and how they translate to its clinical usage, including results of clinical studies
- Describe the techniques and technologies available for fabricating zirconia-based restorations and implant abutments and frameworks with the advent of CAD/CAM technology
- Discuss the advantages and limitations of zirconia-based restorations



ARIEL RAIGRODSKI, DMD, MS

Dr. Raigrodski is a Professor at the Department of Restorative Dentistry at the University of Washington. He is a member of the editorial review boards of the Journal of Esthetic and Restorative Dentistry, the Journal of Prosthodontics, The

Journal of Prosthetic Dentistry, and the American Journal of Esthetic Dentistry. Dr. Raigrodski is a graduate of the Hebrew University in Jerusalem, Israel. He received his certificate in Prosthodontics at Louisiana State University School of Dentistry, where he also completed a fellowship in implants and esthetics and an MS degree. He is a Diplomate of the American Board of Prosthodontics, a fellow of the American College of Prosthodontists, a fellow of the International College of Dentists and a member of many professional organizations. An author of numerous scientific articles and book chapters, Dr. Raigrodski's research is mainly clinical and focuses in all-ceramics, implants and CAD/CAM technology. He lectures both nationally and internationally and holds a private practice in Kenmore, Washington.

Rate this session:



12:00 – 12:30pm

INTEGRATION OF ESTHETIC DENTISTRY AND PROSTHODONTICS

This presentation will provide a comprehensive look at failure modes and effects in bilayer all-ceramic crown-cement-tooth systems, tying together the influences on resistance to fracture initiation and propagation of ceramic material properties and thickness; crown/tooth geometry; cement modulus and layer thickness; damage induced by shaping, fabrication, clinical adjustments and sandblasting; and fatigue in the wet intraoral environment. Some counter-intuitive findings will be addressed including changes in fracture behavior with different geometry and the influence of the compliant cement layer beneath stiff cores. Original research will be presented that studied the clinical behavior of over 4,000 all-ceramic restorations.

At the conclusion of this session, participants will be able to:

- Understand what factors and concerns a prosthodontist would have treating patients that require "esthetic procedures"
- Understand the controversies that exist with modern dental materials
- Understand what clinical factors impact long-term survival of dental ceramic materials
- Understand the restoration of dental implants in complex conditions



KENNETH MALAMENT, DDS, MSCD

Dr. Malament received his DDS from New York University College of Dentistry and a specialty certificate and master's degree from Boston University School of Graduate Dentistry. Dr. Malament has a full-time practice limited to

prosthodontics in Boston that includes a dental laboratory with master dental technologists. Dr. Malament has been the recipient of significant awards in prosthodontics including the American College of Prosthodontists' Clinician/Researcher Award, the Daniel F. Gordon Award for Lifetime Achievement and Distinguished Lecturer Award, the American Academy of Fixed Prosthodontics' George Moulton Award for Outstanding Achievement and the first Frank V. Celenza Memorial Award from the Northeastern Gnathological Society.

Rate this session:



Graduate Prosthodontic Program

This year, the APS has attracted an exciting field of graduate student candidates for the 2013 Research Competition. Recruited by chair Dr. Steven Sadowsky, 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.

This program has again been facilitated by the generous support of the Editorial Council of The Journal of Prosthetic Dentistry.



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 2013 APS speakers will verbally disclose any material, financial or other relationships that pose a potential conflict of interest. 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:

Yasumasa Akagawa, DDS, PhD
Elizabeth Curran, CDT, RDT
Terry Donovan, DDS
Sanjeev Gandhi, BDS
Wendy Gregorius, DDS, MSD
Joseph Kan, DDS, MS
Syngcuk Kim, DDS, PhD

Yung Kyun Kim, DDS
Kevin Lin, DDS
Kenneth Malament, DDS, MScD
Kirk Pasquinelli, DDS
Alon Preiskel, BDS, MRD
John Sorensen, DMD, PhD
HP Weber, DMD

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

David Bartlett, BDS, MRD, PhD
Company: GlaxoSmithKline, Colgate Pro
Relationship: Consultant, Speaker, Research

Jonathan Ferencz, DDS
Company: Ivoclar Vivadent
Product: Ceramic materials
Relationship: Author, Lecturer

Ariel Raigrodski, DMD, MS
Company: 3M ESPE, Biomet 3i, Nobel Biocare, Noritake
Product: All-ceramics, implants, CAD/CAM technology
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Chandur Wadhwani, DDS
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Golden Medallion Award

Yasumasa Akagawa, DDS, PhD

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. Yasumasa Akagawa of Japan. Learn more about Dr. Akagawa on page 7.

Previous Golden Medallion Winners:

Dr. Tomas Albrektsson – 2012

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

Support for this award is generously funded by the **American Prosthodontic Foundation**.



Kenneth D. Rudd Award

Elizabeth Curran, CDT, RDT

The American Prosthodontic Society, in conjunction with the Editorial Council of *The Journal of Prosthetic Dentistry*, is proud to present the ninth Kenneth D. Rudd Award to Elizabeth Curran,

CDT, RDT. 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 Ms. Curran on page 11.

Previous Kenneth D. Rudd Award Winners:

Mr. Arnold Wohlwend, CDT – 2012

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

Support for this award is generously funded by the Editorial Council of *The Journal of Prosthetic Dentistry*.



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Table Clinic Program

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

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



Thursday, February 21, 2013

5:15 – 7:45pm

- 1. Sidney S. Sternberger, DMD** *The Effect of Gingival Tissue Entrapment on Screw Loosening at the Implant Abutment Interface: An In-Vitro Study*
- 2. Marisa Patt, DMD** *Implant Placement Immediately Following a Crestal-Approach Sinus Elevation Using a MIAMBE System*
- 3. Shavari T. Karande, DDS** *Prosthodontic Rehabilitation of a Five-Year-Old Child with Anhidrotic Ectodermal Dysplasia: A Case Report*
- 4. Halmanov B. Abdirashidovich, PhD** *The Effect of Orthopedic Treatment on Crossbite and Deepbite*
- 5. Nathaniel Dancykier** *SoundBite – Sound Innovation with Teeth*
- 6. Konstantinos Chochlidakis, DDS** *Occlusal Rehabilitation of a Partially Edentulous Patient*
- 7. Lauren M. Bolding, DDS, MS** *The Use of a Removable Appliance Following Marsupialization of Boney Cysts*
- 8. Michael T. Kase, DMD** *Use of Orbital Conformer to Improve Speech and Retention in Patients with Confluent Maxillary and Orbital Defects*
- 9. Swala O. Bajunaid, BDS, MSc, DABP, FACP** *How Can We Change the Patient QOL (Quality of Life) with Implant Retained Prosthesis?*
- 10. Antoanela Garbacea, DDS, MSD** *Digital Dentures in Immediate Functional Occlusal Loading of Dental Implants*
- 11. Philip J. Hedger, DMD** *Treatment Effect on Social Engagement with Mandibular Implant Overdenture Therapy*
- 12. Iris Kraljevic** *Radio Frequency Identification (RFID): A Clinically Relevant Way for Denture Labeling?*
- 13. Hai Qing, DDS** *Literature Review of Dental Implant Surgical Guides and Case Presentation Using Two Types of Guide System*
- 14. Juan Del Valle, DDS** *Severe Ridge Deficiency in the Aesthetic Zone – A Prosthodontic Challenge: A Clinical Case Report*
- 15. Yung-tsung Hsu, DDS** *Restorative Space for an Implant-Retained Removable Prosthesis: From Beginning to the End of Treatment*
- 16. Hugo R. Lopez Alvarez, DDS** *Occlusal Rehabilitation for Patient with Amelogenesis Imperfecta*
- 17. Evanthia A. Anadioti, DDS** *3D Marginal Fit of E.maxCAD Crowns Made from Conventional and Digital Impressions*
- 18. Jorge L. Garacioa, DDS** *Accurate Screw Access Guide for Cement-Retained Implant Crowns*
- 19. Fransiskus Andrianto, DDS** *Effect of a Glutaraldehyde-Based Dentin Desensitizing Agent on the Retentive Strength of a Bioceramic Luting Cement*
- 20. Ewa C. Parciak, DDS** *A Review of Two Commercially Available CAD/CAM Complete Denture Systems*
- 21. Noah P. Orenstein, DMD** *Mini Implants: A Review of Current Applications and Literature*

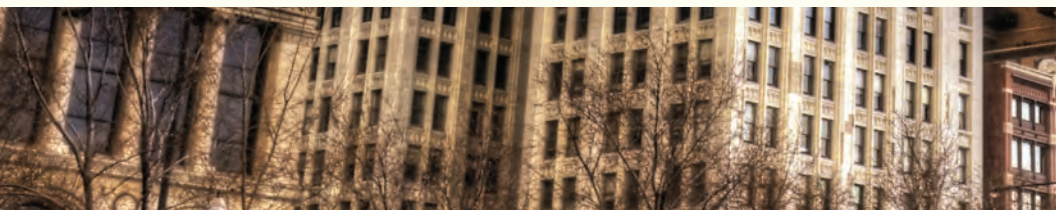
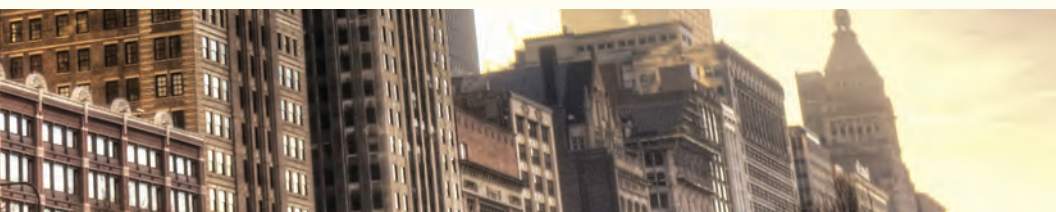


Table Clinic Program

Friday, February 22, 2013

7:00 – 8:00am and 10:10 – 10:40am

- 22. Drew A. Colantino, DMD** *How Systemic Medical Conditions Can Impact the Delivery of Comprehensive Dental Care: A Case Report*
- 23. Gustavo DCS Pinto, DDS** *Exploring Suitable Surface Treatment for Ti-Dental Implants: An Electrochemical Investigation*
- 24. Elyce E. Link-Bindo, DMD** *Treatment of Labially Flared Anterior Teeth with Limited Orthodontics and Full Coverage Restorations*
- 25. Erna R. Einarsdottir, DDS, MS** *Full Mouth Rehabilitation with Overstructure with Lateral Screws for Maxillary Fixed Complete Implant Denture*
- 26. Ayman A. Ahmed, DDS, MS** *A Clinical Evaluation of Endosteal Implants Placed Prior to or During Non-Surgical Therapy in the Head and Neck Cancer Patient*
- 27. Lina V. Solano Alzate** *Constant Chronic Mechanical Irritation in Patients Dentures*
- 28. Amanda C. Colebeck, DDS** *Microtensile Bond Strength of Different Acrylic Teeth to High-Impact Denture Base Resins*
- 29. Konstantinos Harogiannis, DDS** *Visually Perceivable Effects of Veneer Thickness and Natural Die Shade on Ceramic Veneers*
- 30. Hsin Yu Kuo, DDS, MS** *Ridge Clasp Denture*
- 31. Rishi Modi, BDS** *Myofascial Pain Dysfunction Syndrome – A Prosthodontic View*
- 32. Christine Joseph, DDS** *Cement or Screw Retained Implant Restoration?*
- 33. Cristina Isorna Suárez, DDS** *The Effect of a Novel Implant Surface on Gene Expression*
- 34. Marie C. Latortue** *A New Multipurpose Device for Minimum Invasive Removal of Failed Implant and Damaged Screw*
- 35. Evan B. Rosen, DMD, MPH** *Management of Bilateral Condyle and Coronoid Ankylosis: A Clinical Report*
- 36. Audrey J. McNamara, DDS** *An Analysis of Treatment Acceptance Rates in the Div. of Prosthodontics, Eastman Institute for Oral Health*
- 37. Wei-Tse John Hong, DDS** *Feasibility of Implant Placement into the Incisive Canal*
- 38. Lamia AbdulWahab, DDS** *New Impression Technique for Patient with Limited Mouth Opening*
- 39. Maree Shabeesh, DDS** *Considerations for Implant Placement in Failed Implant Sites*
- 40. Edward K. Brown Jr., DDS** *The Interactive Complete Denture Syllabus: A Pilot Study Assessing the Anatomy and Occlusion Sections*



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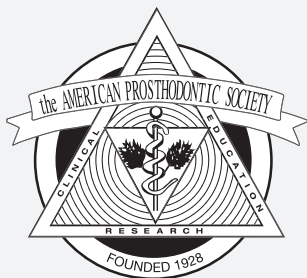
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THE AMERICAN PROSTHODONTIC SOCIETY

FEBRUARY 20-21, 2014 • SWISSÔTEL CHICAGO • CHICAGO, IL



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