



# CHICAGO2011

the AMERICAN PROSTHODONTIC SOCIETY

*Final Program*

83rd ANNUAL MEETING OF  
THE AMERICAN PROSTHODONTIC SOCIETY

FEBRUARY 24-25, 2011 • SWISSÔTEL CHICAGO • CHICAGO, ILLINOIS

# the AMERICAN PROSTHODONTIC SOCIETY

Welcome to the 83rd 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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## ADA CERP® | Continuing Education Recognition Program

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 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.

## 2010 – 2011 EXECUTIVE COUNCIL

**Carlo Ercoli, DDS**  
*President*

**Baldwin W. Marchack, DDS**  
*Second Past President*

**Steven Sadowsky, DDS**  
*2011 Council Member*

**Carlo Marinello, DMD, PhD**  
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**James Clancy, DDS**  
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**James D. Hudson, DMD**  
*Vice President*

**Antonio Bello, DDS**  
*2010 Council Member*

**Joseph Huryn, DDS**  
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**Todd Fridrich, CDT**  
*2010 Council Member*

**Salvatore J. Esposito, DMD**  
*Immediate Past President*

**Patricia E. Daley, DMD**  
*2011 Council Member*

## 2011 ANNUAL MEETING CHAIRS

**Izchak Barzilay, DDS, MS**  
*Program Chair*

**Steven Sadowsky, DDS**  
*Graduate Prosthodontic Program Chair • Corporate Relations Committee Chair*

**John D. Ball, DDS**  
*Table Clinics Chair*

## 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

# 2011 APS Sponsors

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

## PLATINUM SPONSORS



## GOLD SPONSOR



# 2011 APS Exhibitors

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- **Astra Tech**
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- **Cendres+Métaux**
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*APS does not endorse any specific company, product, service or advertisement.*

# Program Schedule At-A-Glance

**Registration:** 2<sup>nd</sup> Floor Event Center

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

**General Session:** Vevey Ballroom

**Business Meeting Luncheon:** Grand Ballroom

## WEDNESDAY, FEBRUARY 23, 2011

4:00 - 7:00pm Registration Open

## THURSDAY, FEBRUARY 24, 2011

Morning Moderator: Izchak Barzilay, DDS, MS

- 7:00 - 8:00am Continental Breakfast  
Registration Open
- 8:00 - 8:15am Call to Order/Opening Remarks
- 8:15 - 8:30am Presentation of the  
Golden Medallion Award
- 8:30 - 9:00am **"Impressions" from the Digital  
Dental Office**  
*Thomas Taylor, DDS, MSD*
- 9:00 - 10:00am **Waking Up on the Wrong Side  
of the Bed?**  
*Chris Scappatura*
- 10:00 - 10:15am **The Effect of Tooth Loss on Gait  
Stability of Community-Dwelling  
Elderly People**  
*Christina Luzi: Graduate  
Prosthodontic Program Speaker*
- 10:15 - 10:30am **The Effect of Altered Water/  
Powder Ratio on Physical  
Properties of Die Stones**  
*Ahmad Bader, DDS: Graduate  
Prosthodontic Program Speaker*
- 10:30 - 10:45am Coffee Break
- 10:45 - 11:00am **Decision-making in Future  
Abutment Selection in Implant  
Prosthodontics**  
*Matiida Dhima, DMD: Graduate  
Prosthodontic Program Speaker*

- 11:00 - 11:15am **A Novel Bioactive Membrane  
Carrying PDGF for Bone  
Tissue Engineering**  
*Terry Y. Lin, DDS: Graduate  
Prosthodontic Program Speaker*
- 11:15 - 11:45am **The Virtual Prosthodontic Patient  
– A Clinical Reality?**  
*David G. Gratton, DDS*
- 11:45am - 12:15pm **Digital Dentistry – Going Paperless  
Without Risking Security,  
Downtime, or Patient Data**  
*Brendan and Justin Howe*
- 12:15 - 2:15pm *Business Meeting Luncheon*
- Afternoon Moderator: Antonio Bello, DDS
- 2:15 - 3:00pm **Prosthodontic Applications of  
Computerized Occlusal Analysis  
Technology**  
*Robert B. Kerstein, DMD*
- 3:00 - 3:45pm **Shade-taking Devices: Which One  
is Right for You?**  
*Jane D. Brewer, DDS*
- 3:45 - 4:00pm Coffee Break
- 4:00 - 4:45pm **Interpretation of Common  
Radiographic Findings in Cone  
Beam CT**  
*C. Grace Petrikowski, DDS, MSC*
- 4:45 - 5:30pm **Current Concepts in Computer  
Guided Implant Solutions**  
*John P. Zarb, DDS, MSC*
- 5:30pm Program Adjourns
- 5:30 - 8:00pm Evening Reception and Table  
Clinics Held in Exhibit Hall

## FRIDAY, FEBRUARY 25, 2011

Moderator: Evangelos Rossopoulos, DDS

- 7:00 - 8:45am Continental Breakfast  
Registration Open
- 8:45 - 9:45am **Impact of In-office CAD/CAM  
Technology on a Prosthodontic  
Practice**  
*Curtis D. Jansen, DDS*
- 9:45 - 10:15am **Digital Education: No Longer a  
New Era**  
*Charles Goodacre, DDS, MSD*
- 10:15 - 10:30am Awards Presentation
- 10:30 - 11:00am Coffee Break and Table Clinics  
Open in Exhibit Hall

- 11:00 - 11:45am **The Impact of Emerging Surgical  
and Restorative Techniques,  
Concepts and Materials on  
Implant Esthetics**  
*Sonia Leziy, DDS*
- 11:45am - 12:15pm **Maxillary Implant Overdentures:  
New Applications**  
*Steven Sadowsky, DDS*
- 12:15 - 12:45pm **Digital Dental Lab Developments**  
*Matt Roberts, CDT*
- 12:45pm Meeting Adjourns
- 1:30 - 4:00pm **Special CE Course  
Dental Products and New  
Technology: Making Ethical Choices**  
*Paul L. Child, Jr., DMD, CDT*  
*Additional Registration Fee Required*



# Educational Program & Abstracts

## THURSDAY, FEBRUARY 24, 2011

8:30 – 9:00am

### “IMPRESSIONS” FROM THE DIGITAL DENTAL OFFICE

As we look ahead in anticipation of what the practice of prosthodontics is going to look like we must certainly share some trepidation. How are we going to be able to afford to stay current as technology becomes ever more expensive and those high-tech purchases we make have shorter and shorter useful lives? A philosophic view may be the only way to survive.

#### Key Points:

- How the digital revolution is forever changing dentistry
- Why the practitioner must have an eye on the past as well as an eye on the future
- How will we stay up to date with the onrush of information facing us?



#### THOMAS TAYLOR, DDS, MSD

*Dr. Taylor is Professor and Head, Department of Reconstructive Sciences and Chairman, Division of Prosthodontics and Operative Dentistry at the University of Connecticut School of Dental Medicine. He is involved in both*

*clinical and laboratory research and has published extensively in the prosthodontic literature. He is a past editor of the International Journal of Oral and Maxillofacial Implants. Dr. Taylor is currently Executive Director as well as Past President of the American Board of Prosthodontics and he is Past President of the American College of Prosthodontists and the International Team for Implantology (ITI). He currently serves as President of the International College of Prosthodontists. Dr. Taylor maintains a part-time practice limited to prosthodontics.*

9:00 – 10:00am

### WAKING UP ON THE WRONG SIDE OF THE BED?

This energetic and hilarious seminar will show you how to overcome this state of mind. We'll discuss relationships, diet, exercise and much more while offering life-changing suggestions that are child's play. Come learn to get out of bed on the right side and don't forget to drag your coworkers along with you.

#### Key Points:

- How do diet, exercise, relationships and everyday occurrences affect your attitude?
- How does the work environment affect home and how does the home environment affect work?
- What simple steps can you make to transform your attitude, environment and life?



#### CHRIS SCAPPATURA

*Chris is President of Contagious Enthusiasm Inc., a company dedicated to promoting personal and office development through hilarious yet thought-provoking seminars and coaching. As an intuitive life strategist, Chris has helped many*

*people and offices create positive lasting change in their lives, careers and work environment.*

# Educational Program & Abstracts

## GRADUATE PROSTHODONTIC PROGRAM

10:00 – 11:15am

This year the APS has again attracted an exciting field of graduate student candidates for the 2011 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.

*This program is generously supported through an educational grant from Cendres+Métaux and the Executive Council of The Journal of Prosthetic Dentistry.*



*The Journal of*  
**Prosthetic**  
*Dentistry*

10:00 – 10:15am (Graduate Prosthodontic Speaker)

### THE EFFECT OF TOOTH LOSS ON GAIT STABILITY OF COMMUNITY-DWELLING ELDERLY PEOPLE

Zirconia as a framework material is well established in fixed prosthodontics. However, for its application for removable dentures little experience exists. Zirkonzahn® has developed a copy-milling unit that is a manually operated machine for the manufacture not only of frameworks but also for complete removable dentures. The aim of the presentation is to show the step-by-step clinical and technical fabrication of a zirconia bar on implants and of a corresponding zirconia complete denture. The advantages and disadvantages of the system are presented and the problems are critically discussed.



#### CHRISTINA LUZI

*Dr. Luzi is a postgraduate student and assistant professor in the Clinic for Reconstructive Dentistry and Temporomandibular Disorders at the University of Basel in Basel, Switzerland. She is a member of the scientific committee of the SGZBB*

*(Swiss Society for Dental Treatment of Handicapped and Elderly People).*

10:15 – 10:30am (Graduate Prosthodontic Speaker)

### THE EFFECT OF ALTERED WATER/POWDER RATIO ON PHYSICAL PROPERTIES OF DIE STONES

The purpose of this study was to determine the degree of altered water/powder ratio that produces significant effects on fracture strength, detail reproduction, and linear dimensional change of die stones type IV (Prima-Rock) and type IV (Die-Keen). Four groups were investigated with different water/powder ratios including a control group (manufacturer's recommended water/powder ratio). The results of this study showed that altering the recommended ratio by as little as 0.03 caused significant negative effects on the tested properties.



#### AHMAD BADER, DDS

*Dr. Ahmad received full-ride scholarships from Kuwait Ministry of Higher Education and Kuwait University for his dental and post-graduate degrees. He received his BA in biology and DDS from UMKC School of Dentistry in 2003 and a Certificate in Prosthodontics with MSD from LLU in 2010. He intends to further his specialty training in maxillofacial prosthetics. He practiced general dentistry in Kuwait from 2003 to 2006. Currently, he is a faculty member at Kuwait University.*

10:45 – 11:00am (Graduate Prosthodontic Speaker)

### DECISION-MAKING IN FUTURE ABUTMENT SELECTION IN IMPLANT PROSTHODONTICS

Throughout the years, abutment and screw design for implant-supported prosthesis have evolved to address the increasingly complex needs for implant components and design. Technological advances incorporated CAD/CAM production of alumina copings for crowns and also for the production of abutments. A retrospective review was conducted of patients rehabilitated with CAD/CAM, cast and prefabricated abutments to assess biological and mechanical complications to aid in decision-making of future abutment selection in implant prosthodontics.



#### MATILDA DHIMA, DMD

*Matilda Dhima, DMD is a second-year prosthodontics and maxillofacial prosthesis resident at Mayo Clinic. She is a graduate of the University of Pennsylvania School of Dental Medicine. She was awarded first place at the 2008 American College of Prosthodontists predoctoral table clinic research competition. She is a recipient of the 2009 Colgate Research Award recognizing academic distinction and excellence in research. Her research interests focus on material selection and feasibility for tooth- and implant-supported restorations.*

# Educational Program & Abstracts

**THURSDAY, FEBRUARY 24, 2011**

11:00 – 11:15am (Graduate Prosthodontic Speaker)

## **A NOVEL BIOACTIVE MEMBRANE CARRYING PDGF FOR BONE TISSUE ENGINEERING**

Regenerative procedures using collagen membranes (CMs) are well-established in implant dentistry. Platelet-derived growth factor (PDGF) stimulates bone repair in the treatment of localized periodontal defects. To evaluate the ability of CMs to successfully deliver PDGF, our in vitro studies demonstrated that a sustained release of PDGF, using a novel heparin-crosslinking method, was observed for three weeks and the released PDGF significantly promoted osteoblastic differentiation marker genes, alkaline phosphatase activity, and cell proliferation.



### **TERRY Y. LIN, DDS**

*Dr. Lin is a third-year resident in the Advanced Education Program in NYU. He holds a DDS degree from NYU and an MS degree in Biomedical Engineering from UCLA. He plans to pursue a career in research, teaching, and private practice after completing his prosthodontic specialty training in 2011.*

11:15 – 11:45am

## **THE VIRTUAL PROSTHODONTIC PATIENT – A CLINICAL REALITY?**

The topography of digital Prosthodontics is rapidly evolving. As Prosthodontists, we are compelled to be responsive to these technologies, but is there sufficient evidence to support their clinical use? Must our skills in diagnosis, treatment planning, prosthesis fabrication and delivery be cultivated for the virtual patient of today and tomorrow?

### **Key Points:**

- Provide an overview of the digital technologies available in Prosthodontics.
- Highlight evidence pertaining to the clinical use of these emerging Prosthodontic technologies.
- Discuss the role of the Prosthodontist in the virtualization of clinical dentistry.



### **DAVID G. GRATTON, DDS**

*David G. Gratton, DDS, MS, Assistant Professor, Department of Prosthodontics, and Clinical Director, Center for Implant Dentistry, at The University of Iowa. Fellow, International Team for Implantology. He researches evolving digital*

*technologies and CAD/CAM materials. His work is published, he lectures internationally and participates in an intramural Prosthodontic practice.*

11:45am – 12:15pm

## **DIGITAL DENTISTRY – GOING PAPERLESS WITHOUT RISKING SECURITY, DOWNTIME OR PATIENT DATA**

With digital dentistry becoming a new standard, are you making sure your practice is protected against the risks out there? You must be employing best practices for data and network security in order to protect your practice. Unfortunately many dentists don't know that the approaches they're taking with their data put them at major risk of extended downtime and data loss. Justin and Brendan Howe will review the critical steps you must be taking to protect your practice.

### **Key Points:**

- The essential steps every dental practice needs to take to ensure high security, performance and maximum uptime for their technology systems
- How one dental office has gone completely paperless; the lessons learned at Prosthodontic Associates and how they are protected against technology risks and data loss
- How to avoid the mistakes many dental offices make with patient data storage and backup



### **BRENDAN AND JUSTIN HOWE**

*Brendan Howe is the Managing Director of TDCNet and in that role advises over 100 dental practices and other small businesses from*

*around the Toronto area on the security, performance and reliability of their computer networks. Brendan has worked in both private and public sector organizations and managed a small business in Eastern Europe. He is a member of the Advisory Board for the George Brown Institute of Entrepreneurship and an active member of the largest peer group of IT business owners in North America.*

*Justin, TDCNet CTO, has designed, built and supported networks for many digital dentistry practices and other small and medium-sized businesses over the past 15 years. During that time he has helped many small business owners employ best practices for data security, reliability and backup. Justin was nominated for the Ontario Premier's Award for technology.*

*Their company TDCNet has recently been named one of the top 50 IBM Growth Partners in Canada.*



# Educational Program & Abstracts

2:15 – 3:00pm

## **PROSTHODONTIC APPLICATIONS OF COMPUTERIZED OCCLUSAL ANALYSIS TECHNOLOGY**

Computerized occlusal analysis is a PC-based diagnostic and clinical treatment system available to Prosthodontists with which to understand occlusal contact functional and parafunctional forces, contact timing sequences, and occlusal surface interface pressures, which arise as teeth mill against each other during mandibular movements. Because recent published research on articulating paper has revealed that articulating paper mark size does not measure occlusal forces predictably, the modern Prosthodontist needs to employ an occlusal contact measuring device that can reliably determine aberrant occlusal force concentrations and time prematurities. During a prosthesis installation (either natural tooth borne, or implant supported), computerized occlusal analysis can be employed to target excessive force concentrations, and optimize occlusal contact time sequences, thereby measurably improving occlusal balance and contact simultaneity, to better preserve the dental materials, than can be accomplished with "articulating paper-only" occlusal adjusting. This introductory presentation will illustrate various applications that computerized occlusal analysis offers the Prosthodontist in implant prosthodontics and fixed and removable conventional Prosthodontics.

### **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.



### **ROBERT B. KERSTEIN, DMD**

*Robert B. Kerstein received his DMD degree in 1983, and his Prosthodontic Certificate in 1985, both from Tufts University School of Dental Medicine. Dr. Kerstein's 27 years of research with the T-Scan I, II and III Computerized Occlusal*

*Analysis Systems have led to his becoming the leading author and clinician in the field of Computerized Occlusal Analysis. Dr. Kerstein maintains a successful private practice that is limited to Prosthodontics and Myofascial Pain Dysfunction in Boston, Massachusetts.*

3:00 – 3:45pm

## **SHADE-TAKING DEVICES: WHICH ONE IS RIGHT FOR YOU?**

Technological advances have brought us through several generations of shade-taking devices. Why, then, with the abundance of appearance mismatches of teeth and restorations, are there so many practitioners who do not take advantage of these instruments? How do these devices work, and what are their advantages and limitations?

### **Key Points:**

- Rationale for using a shade-taking device
- How do they work?
- Limitations and advantages of each type



### **JANE D. BREWER, DDS**

*Dr. Brewer received her DDS, Certificate in Fixed Prosthodontics and MS from SUNY, University at Buffalo. A career dental educator, she also engages in private practice and has been active in a number of organizations including the American*

*Academy of Fixed Prosthodontics, which she served as its 56th president.*

4:00 – 4:45pm

## **INTERPRETATION OF COMMON RADIOGRAPHIC FINDINGS IN CONE BEAM CT**

The clinician is responsible for reviewing the entire CBCT volume and incidental findings unrelated to the proposed treatment are common. A strategy for interpreting CBCT scans will be presented and the most common incidental findings and their significance to treatment will be reviewed.

### **Key Points:**

- Clinicians are legally responsible for all diagnostic findings in a cone beam CT scan, even incidental findings unrelated to the planned treatment.
- Some incidental findings may significantly impact treatment or informed consent so the clinician must be prepared to recognize them.
- The most common abnormalities in cone beam CT scans include inflammatory disease, TMJ abnormalities, soft tissue calcifications, and bone pattern variations.



### **C. GRACE PETRIKOWSKI, DDS, MSC**

*Dr. Grace Petrikowski is an oral and maxillofacial radiologist. She is an Associate Professor at the Faculty of Dentistry, University of Toronto and maintains a full-time private oral radiology practice in Toronto, Ontario. She has authored a number*

*of research articles and textbook chapters in the field of oral radiology.*

**THURSDAY, FEBRUARY 24, 2011**

## CURRENT CONCEPTS IN COMPUTER GUIDED IMPLANT SOLUTIONS



Dr. John P. Zarb earned his DDS at the University of Detroit Mercy in 1995. Upon graduation, he completed a one-year General Practice Residency at the VA Hospital in Ann Arbor, MI, followed by graduate prosthodontic training

*Dr. Zarb is a staff prosthodontist at Mt. Sinai Hospital in Toronto and a Clinical Assistant Professor at the University of Rochester, Eastman Institute for Oral Health. He has been involved with surgical and prosthetic implant dentistry education at both the undergraduate and graduate level. Dr. Zarb joined Barrie Prosthodontics in 2003. He is a Fellow and Examiner of the Royal College of Dentists of Canada, a Fellow in the Academy of Dentistry International, an Associate Fellow in the Academy of Prosthodontics and a Director of the American College of Prosthodontists.*

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# Educational Program & Abstracts

**FRIDAY, FEBRUARY 25, 2011**

8:45 – 9:45am

## **IMPACT OF IN-OFFICE CAD/CAM TECHNOLOGY ON A PROSTHODONTIC PRACTICE**

CAD/CAM restorative dentistry can increase efficiency by decreasing chair and lab time for many labor-intensive procedures. In-office procedures offer a new philosophy for restoring single or multiple teeth, fabricating surgical templates, implant abutments and frameworks. Making intraoral digital impressions or scanning models CAD/CAM restorations are designed, outsourced, or milled in the office.

### **Key Points:**

- Update on in-office CAD/CAM and intraoral impression systems
- Work flow for in-office milling of copings/restorations
- What the future holds for in-office CAD/CAM systems



### **CURTIS D. JANSEN, DDS**

*Dr. Jansen completed his DDS and Prosthodontic education at USC School of Dentistry. He is a member of the American College of Prosthodontics and a Fellow of the American College of Dentists. Currently, he has a full-time practice limited to Prosthodontics and a dental laboratory in Monterey, California.*

9:45 – 10:15am

## **DIGITAL EDUCATION: NO LONGER A NEW ERA**

New directions have emerged in education that focus on the learner and their ability to direct the learning process. It is important for prosthodontic educators to develop interactive electronic means of directing the inquisitiveness of their students. This presentation will identify key design principles and demonstrate electronic education programs that embody these principles.

### **Key Points:**

- Students and young practitioners learn differently than individuals in the past.
- Prosthodontics is increasingly being taught through the use of 3D content.
- The educational methodology used to teach complete dentures has not progressed substantially during this era of digital enhancement.



### **CHARLES GOODACRE, DDS, MSD**

*Dr. Goodacre received his DDS degree from Loma Linda University and MSD degree from Indiana University. He is Dean of Loma Linda University School of Dentistry. He has served as a Director for the American College of Prosthodontists and is currently the Past President. He has served on the Executive Council of the Academy of Prosthodontics and is currently Past President.*

11:00 – 11:45am

## **THE IMPACT OF EMERGING SURGICAL AND RESTORATIVE TECHNIQUES, CONCEPTS AND MATERIALS ON IMPLANT ESTHETICS**

Restoration with implants demands an understanding of pre-treatment conditions as well as the impact of surgical and restorative procedures on tissue architecture. An understanding of how to enhance tissue form is critical to achieve a highly successful esthetic outcome. Current surgical treatment concepts and techniques aimed at enhancing the esthetic results of implant restorations will be presented.

### **Key Points:**

- Discuss whether different implant placement strategies differentially influence hard and soft tissue levels around multiple implants.
- Understand conventional concepts in implant positioning and how this influences bone height and soft tissue volume, and why new implant designs are stimulating change.
- Review the role of provisionalization in peri-implant tissue development. Is this an essential step in the esthetic zone?



### **SONIA LEZIY, DDS**

*Specialist in Periodontics. Private practice in Vancouver, Canada. Associate Clinical Professor, University of British Columbia. Member of the editorial boards of the journal Spectrum Dialogue and Teamwork: The Insider's Guide*

*to Quality Dentistry. Published in the areas of implant esthetics and surgical protocols. Lectures internationally on the subjects of perio-plastic surgery and implant esthetics.*

11:45am – 12:15pm

## **MAXILLARY IMPLANT OVERDENTURES: NEW APPLICATIONS**

Historically, the maxillary implant overdenture has been beleaguered by relatively high implant failure rates, high aftercare burden and a limited portfolio of robust studies to support the effectiveness of this modality. An analysis of the recommended number, length and topography of implants as well as types of anchorage systems will shed light on optimal design features. A digital impression system will be discussed.

### **Key Points:**

- The state of science on maxillary implant overdentures
- The rationale for a rigid anchorage system design
- The use of new digital applications

**FRIDAY, FEBRUARY 25, 2011**



*Director of Prosthodontic Practice  
and Patient Services for the*

*American College of Prosthodontists*

and a member of the Executive Council of the American Prosthodontic Society. Dr. Sadowsky is a fellow of the Academy of Prosthodontics and is on the editorial review boards for the *IJOMI*, *IJP* and *JPD*.

12:15 – 12:45pm

Today's rapidly developing technology is quickly infiltrating established dental procedural workflow. Digital photography, digital impressions, CAD/CAM systems and wax printing are all part of our daily existence. New developments in design software are opening new applications of this type of technology. In this presentation we will explore where we are today with practical applications of this technology and discuss the potential usage of future developments. Examples of software applications and demonstrations of the clinical to laboratory interface will be discussed. Practical cases will be followed from the clinic to the laboratory and back to the clinic, showing our working model as it exists today.



*Matt Roberts began his career fabricating esthetic reconstructive restorations more than 30 years ago and established CMR Dental Lab in 1978, where he still pursues his passion for excellence in esthetics and function. As a member of both*

the American Academy of Esthetic Dentistry and the American Academy of Cosmetic Dentistry, where he is one of only 26 accredited dental technicians, he remains on the forefront of his field, sharing his ideas through continuing education programs and other teaching venues. Mr. Roberts founded the Team Aesthetic Education program to provide hands-on training for dentists and technicians, work with manufacturers to develop or improve products, and now provide Internet-based video education as well. A member of the L.D. Pankey Institute faculty, Mr. Roberts helps teach the Aesthetic Solutions Program for dentists and technicians. A member of the editorial team for many prominent dental journals, he also speaks nationally and internationally.

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## 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 24, 2011

12:15 – 2:15pm

Grand Ballroom

12:15 – 12:45pm

### **DENTAL PRODUCTS AND NEW TECHNOLOGY: MAKING ETHICAL CHOICES**

*Open to all APS meeting attendees for additional charge.  
2.5 hours of CE credit.*

Paul Child, Jr., DMD, CDT will seek to answer to following questions in an engaging afternoon program following the APS Annual Meeting: Where are we going as a profession? What is our moral and ethical obligation to our patients and how do our choices affect them? What is hot in dentistry and are new innovations worth the investment? How do you select dental products with so many choices and questionable marketing tactics?

This presentation will discuss the following key points:

- Selection of appropriate dental products requires more than just personal endorsements, manufacturer's claims, and consensus on websites.
- New technology and innovations can be cost-effective if implemented properly with the right products.
- Consideration of ethical consequences needs to be incorporated into our practices and industry.



#### **PAUL L. CHILD, JR., DMD, CDT**

*Dr. Child is a Prosthodontist, Certified Dental Technician and CEO of CR Foundation (formerly CRA), and maintains a private practice in Provo, Utah. Dr. Child lectures nationally on all areas of dentistry, with an emphasis on new and*

*emerging technologies. He maintains membership in many professional associations and academies.*

### **PROSTHODONTIC SCHOLARS PROGRAM**

APS congratulates the American Prosthodontic Foundation for their successful efforts in procuring a Special Congressional Initiative Grant from the US Department of Health and Human Services to support the third Prosthodontic Scholars Program. This unique opportunity provides scholarship grants to more than 50 third- and fourth-year students, representing 33 accredited dental schools across the country, to come to Chicago to participate in our 83rd Annual Meeting and a special CE course designed especially for them.

*Open to all APS meeting attendees for additional charge.  
Registration required.*

### **ADA CERP®** | Continuing Education Recognition Program

*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.*

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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 2011 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) exist:

- Jane D. Brewer, DDS
- Paul L. Child Jr., DMD, CDT
- Matilda Dhima, DMD
- David G. Gratton, DDS
- Brendan Howe
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- Curtis D. Jansen, DDS
- Terry Y. Lin, DDS
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- Steven J. Sadowsky, DDS
- Chris Scappatura
- Thomas D. Taylor, DDS, MSD
- John P. Zarb, DDS, MSC

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

- Charles J. Goodacre, DDS, MSD**  
Company: Nobel Biocare  
Product/Service: All-ceramic Crown  
Relationship: Education/Research/Grant
- Robert B. Kerstein, DMD**  
Company: Tekscan, Inc  
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Relationship: Consultant
- Sonia Leziy, DDS**  
Company: Nobel Biocare  
Product/Service: Implants  
Relationship: Consultant, Speakers Bureau/Lecturer/Honorarium
- C. Grace Petrikowski, DDS, MSc**  
Company: CMI Centre  
Product/Service: Oral Radiology Clinic  
Relationship: Owner/Stockholder
- Matt Roberts, CDT**  
Company: DMR Dental Lab  
Relationship: Owner

# Exhibition Hall

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

Thursday, February 24, 2011

5:30 – 8:00pm

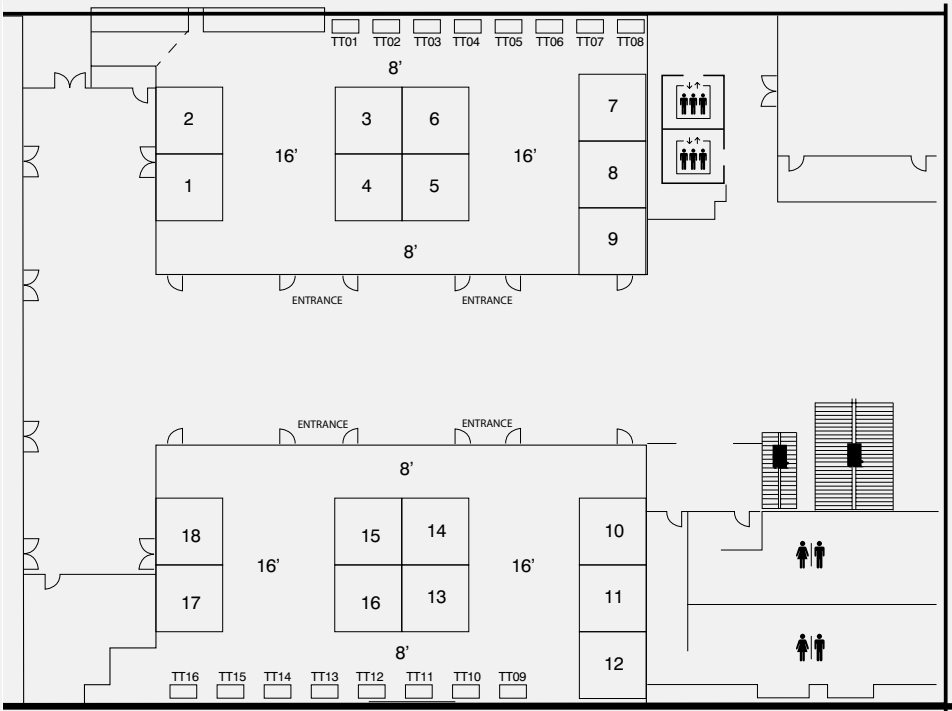
Reception and table clinics in the exhibit hall.

Friday, February 25, 2011

7:00 – 11:00am

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

## EXHIBITOR FLOOR PLAN



# Exhibitor Directory

## **Astra Tech #6**

890 Winter Street  
Waltham, MA 02451  
Phone: 800.531.3481  
Website: [www.astratechdental.com](http://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.

## **Biomet 3i #2**

4555 Riverside Drive  
Palm Beach Gardens, FL 33410  
Phone: 800.443.8166  
Website: [www.biomet3i.com](http://www.biomet3i.com)

As a leading dental implant manufacturer, Biomet 3i utilizes cutting edge CAD/CAM, restorative, regenerative and surgical technologies, as well as provides educational support for both clinicians and patients.

## **Brasseler USA #9**

One Brasseler Boulevard  
Savannah, GA 31419  
Phone: 800.841.4522  
Website: [www.brasselerusa.com](http://www.brasselerusa.com)  
Brasseler USA is a world leader in the manufacture of quality dental instrumentation: Rotary, Endodontic, Hand Instrument, Handpieces, and Polishers.

## **Burbank Dental Laboratory #11**

2101 Floyd Street  
Burbank, CA 91504  
Phone: 800.366.3053  
Website: [www.burbankdental.com](http://www.burbankdental.com)  
A full-service dental lab.

## **Carestream Dental #18**

1765 The Exchange  
Atlanta, GA 30339  
Phone: 800.944.6365  
Website: [www.carestreamdental.com](http://www.carestreamdental.com)  
Carestream Dental LLC, exclusive manufacturer of Kodak Dental Systems, provides a complete set of solutions consisting of high-quality, integrated digital imaging systems, practice management software and eServices.

## **Cendres+Métaux #5**

Rue de Boujean 122  
P.O. Box CH-2501  
Biel/Bienne, Switzerland  
Phone: +41 58 360 22 61  
Website: [www.cmsa.ch](http://www.cmsa.ch)  
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## **Dental Arts Laboratories, Inc. #8**

241 NE Perry Avenue  
Peoria, IL 61603  
Phone: 800.227.4142  
Website: [www.dentalartslab.com](http://www.dentalartslab.com)  
Dental Arts Laboratories, Inc., a full service dental laboratory with over 77 years of experience, specializes in all phases of fixed, removable, cosmetic and implant prosthetic dentistry.

## **Heraeus #1**

300 Heraeus Way  
South Bend, IN 46614  
Phone: 800.431.1785  
Website: [www.heraeusdental.com](http://www.heraeusdental.com)  
Heraeus provides superior products and reliable solutions for dental professionals. Laboratory products include Modern Materials® Gypsums and Plasters, Heraeus Scrap Refining, and PALA – the complete system for esthetic dentures.



# Exhibitor Directory

## **Ivoclar Vivadent #4**

175 Pineview Drive  
Amherst, NY 14228  
Phone: 800.533.6825

Website: [www.ivoclarvivadent.com](http://www.ivoclarvivadent.com)

Ivoclar Vivadent is a leading international manufacturer of high-quality dental materials for preventative, restorative and prosthetic dentistry. Our products are used by dental laboratories and dentists in over 100 countries throughout the world.

## **Keystone Dental #3**

144 Middlesex Turnpike  
Burlington, MA 01803  
Phone: 866.902.9272

Website: [www.keystonedental.com](http://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.

## **Komet USA #13**

3042 Southcross Blvd Suite 101  
Rock Hill, SC 29730  
Phone: 888.566.3887

Website: [www.komet-usa.com](http://www.komet-usa.com)

KOMET is a worldwide leader in the production of highly specialized, precise dental rotary instruments. KOMET sells direct – delivering orders quickly and efficiently from its factory.

## **Nobel Biocare #15**

22715 Sari Ranch Pkwy  
Yorba Linda, CA 92887  
Phone: 800.998.8100

Website: [www.nobelbiocare.com](http://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.

## **Sirona Dental Systems #7**

4835 Sirona Drive, Suite 100  
Charlotte, NC 28273  
Phone: 800.659.5977

Website: [www.sirona.com](http://www.sirona.com)

Sirona develops, manufactures and markets a complete line of dental products, including CAD/CAM restoration equipment (CEREC®), digital, film-based intra-oral, panoramic and cephalometric X-ray imaging systems, treatment centers and instruments.

## **Straumann #16**

60 Minuteman Rd  
Andover, MA 01810  
Phone: 800.448.8169

Website: [www.straumann.com](http://www.straumann.com)

Straumann offers a full portfolio of product solutions, including tissue level and bone level implants and implant restorations, tissue regeneration, and CAD/CAM copings, frameworks and abutments.



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## **Tekscan, Inc. #14**

307 West First St.  
South Boston, MA 02127  
617.464.4500

Website: [www.tekscan.com](http://www.tekscan.com)

Tekscan's T-Scan® III is designed specifically for occlusal analysis. It is the only solution available to offer instantaneous occlusal data, including timing and force.

## **Thommen Medical #10**

1375 Euclid Avenue, Suite 450  
Cleveland, OH 44115  
Phone: 216.583.9800

Website: [www.thommenmedical.com](http://www.thommenmedical.com)

Thommen Medical is the manufacturer of the Thommen Implant System. The Thommen Implant System was developed to satisfy today's demanding clinical requirements: it is innovative, precise and easy to use.

## **Zimmer #17**

1900 Aston Avenue  
Carlsbad, CA 92008  
Phone: 800.854.7019

Website: [www.zimmerdental.com](http://www.zimmerdental.com)

Zimmer Dental is a global leader in the oral rehabilitation market with a mission to improve the lives of patients through continuous product development and leadership in education. Proudly offering one of the most comprehensive dental implant product lines available, including the Tapered Screw-Vent® Implant System and Puros® Allograft family, and providing professionals access to premier education and training resources such as The Zimmer Institute™, Zimmer Dental remains at the industry's forefront.





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# Awards



## Golden Medallion Award

*Dr. Thomas Taylor*

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. Thomas Taylor of Farmington, Connecticut. This award is made possible by a generous grant from the American Prosthodontic Foundation.

Dr. Taylor is Professor and Head, Department of Reconstructive Sciences and Chairman, Division of Prosthodontics and Operative Dentistry at the University of Connecticut School of Dental Medicine. He is involved in both clinical and laboratory research and has published extensively in the prosthodontic literature. He is a past editor of the *International Journal of Oral and Maxillofacial Implants*. Dr. Taylor currently serves as Executive Director of as well as Past President of the American Board of Prosthodontics and he is Past President of the American College of Prosthodontists and the International Team for Implantology (ITI). He currently serves as President of the International College of Prosthodontists. Dr. Taylor maintains a part-time practice limited to prosthodontics.

Previous Golden Medallion Winners:

*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 expresses sincere appreciation to the American Prosthodontic Foundation for their continued generous financial support of our Golden Medallion Award.*



## Kenneth D. Rudd Award

*Vincent V. Alleluia, MDT, CDT, TF*  
The American Prosthodontic Society, in conjunction with the Editorial Council of *The Journal of Prosthetic Dentistry*, is proud to present the fifth Kenneth D. Rudd Award to Vincent V.

Alleluia, MDT, CDT, TF. 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.

Mr. Alleluia is Chairman of the Board of Directors and Coordinator of Education of The American Society of Master Dental Technologists, a teaching institution located at New York University College of Dentistry, Department of Continuing Education from 1977 to present time. Mr. Alleluia is faculty member of New York University College of Dentistry, Department of Continuing Education, a Technical Fellow, and former member of the Board of Directors of the Northeastern Gnathological Society. Mr. Alleluia has a Dental Technology Degree from New York City College of Technology, The City University of New York – total in five categories.

Mr. Alleluia has served the dental industry for over 50 years. His vast experience includes his work as a Technical Specialist for Ivoclar Vivadent for 20 years. He was on the faculty at New York University College of Dentistry for 25 years and has studied under Dr. Ernest Granger (gnathological principles), Dr. Charles Stuart (mouth reconstruction), Dr. Frank V. Celenza (mouth reconstruction), Dr. Ira Zinner (implant procedures and reconstruction) and Dr. Joseph Massad (removable prosthesis reconstruction), among others. For 10 years he owned Aldente Dental Labs, specializing in mouth reconstruction (over 90 employees), as well three dental laboratories in the New York metropolitan area. His main objective is to lecture and teach all phases of dental technology, procedures and techniques in the field of dentistry.

Previous Kenneth D. Rudd Award Winners:

*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*

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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



## Thursday, February 24

5:30 – 8:00pm

1. **Dr. Francesco Bassi, MD, DDS** *Zygomatic and Conventional Immediately Loaded Implants: A 7-year Clinical Prospective Study*
2. **Dr. Gianfranco Gassino, DDS** *Advantages of a Simplified Edentulous Treatment (Set) in Transferring Data to the Prosthodontic Laboratory*
3. **Dr. Marguaritha J. Stuffken, DDS** *Pre-impression Troughing with Diode Laser*
4. **Ms. Cathleen Raz** *Combination Syndrome: Final Impression Techniques for the Treatment of Patients with Mobile Tissue*
5. **Mr. Jared S. Robertson** *Mandibular Anterior Implant and Crown Restoration*
6. **Dr. Berge Wazirian, DMD** *RBFPD for Congenitally Missing Laterals*
7. **Dr. Nathaniel E. Farley, DDS** *What Implant is That? A Web-Based Reference for Implant Radiographic Identification*
8. **Dr. Techkouhie A. Hamalian, DDS** *Evaluation of the Fracture Resistance of Fluoroapatite-Veneered Zirconium Crowns with 3 Different Coronal Core Foundations*
9. **Dr. Suchada Kongkitkamon, DDS** *Cellular Response of Human Mesenchymal Stem Cells (HMSC) Cultured on Titanium-DMP1 Coated Surface*
10. **Dr. Beatrice Maritim, DMD** *The Use of the Laser Doppler Flowmeter to Evaluate the Effect of Radiation Therapy on Blood Flow to Maxilla and Mandible*
11. **Ms. Fabienne D. Glenz** *Mandibular Implant Retained CAD/CAM Milled Titanium Bar with Locator Attachments*
12. **Dr. Harshit A. Aggarwal BDS, MSD** *Preserving Crestal Bone Around Immediate Implants: A Unique Approach*
13. **Dr. Marta Baldassarri, PhD** *Fractographic Analysis of Clinical Veneering Chipping on Zirconium-oxide Restorations*
14. **Dr. Petra C. Guess, DDS** *Digital Workflow and All-ceramic Restorations: Implementation in the Undergraduate Education*
15. **Dr. Gabriela Carranza, DDS** *Scleroderma: The Challenge of Removable Prosthetics*



# Table Clinic Program

## Friday, February 25

7:00 – 8:45am and 10:30 – 11:00am

- 16. Dr. Alireza Moshaverinia, DDS, MS** *Ultrasonically Set Novel NVC-containing Glass-ionomer Cements for Applications in Fixed Prosthodontics*
- 17. Dr. Omaid K. Ahmad, DDS, MDS** *Clinical Fabrication of an Auricular Prosthesis in a Patient with Congenital Microtia: A Case Report*
- 18. Mr. Cole J. Stockheimer** *Full Coverage eMax Restorations in the Anterior Maxillary Dentition*
- 19. Dr. Yakelline M. Castillo, DDS** *Root Attachments as an Option for Overdentures*
- 20. Dr. Jaime R. de Leon, DDS** *Mandibular Overdentures Supported by Endosseous Implants*
- 21. Dr. Mohammed K. Baig, DDS** *Treatment of Unesthetic Teeth and Smile Line*
- 22. Dr. Rosa M. Guzmán** *Prosthetic Design of an Obturator with Orthodontic Retainer: A Case Report*
- 23. Dr. Grevil J. Pineda, DDS** *Implant Site Preservation in the Aesthetic Zone*
- 24. Dr. Carl Pogoncheff, DDS** *Optimal Design of Zirconia Substructures Using CAD/CAM Technology*
- 25. Dr. Andrea Mastrorosa Agnini, DDS** *The One Model Technique: Methodology for Immediate Loading with Fixed Prosthesis In Edentulous or Potentially Edentulous Patients*
- 26. Dr. Ryan R. Sheridan, DMD** *Optimizing Partial Denture Framework Design to Restore Congenital and Acquired Oro-facial Deficiencies*
- 27. Dr. Sahand Zomorrodian, DMD** *Cellular Response of Human Mesenchymal Stem Cells Cultured on Corroded Titanium Surfaces*
- 28. Dr. Colby S. Smith, DDS** *Treating the TMD Emergency with Immediate Fabrication of an Occlusal Splint Appliance*





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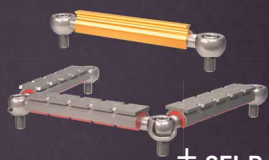
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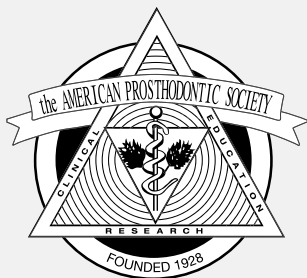
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