2016 Winter Conference
Collaborative Management of Complex Dentofacial Conditions

Onsite Program & Exhibit Guide

January 22-24, 2016
Indian Wells, California (near Palm Springs)
Hyatt Regency Indian Wells Resort & Spa

Conference lectures are located in the Desert Vista Ballroom. The exhibit hall is located in the Indian Wells Ballroom.
Dear AAO and AAOMS Colleagues,

Welcome to the 2016 Winter Conference! We believe that the learning experience that you will have during the next two days will enable you to deepen your knowledge of state-of-the-art treatment of patients with complex dentofacial conditions.

We think you will also enjoy a variety of interesting discussions with colleagues on the orthodontic and surgical treatment perspectives. In addition, we hope you find time to take in the beauty of our surroundings, relax and take advantage of the amenities offered by the Hyatt Regency.

Sincerely,

Morris N. Poole, DDS
AAO President, 2015-2016
Friday January 22

7:15 - 8:00am  CONTINENTAL BREAKFAST
8:00 - 8:15am  Welcome and Introductions
Session I: Orthodontic/Surgical Teamwork: Enhancing the Planning and the Outcome  Dr. Musich, moderator
8:15 - 9:00am  A Historical Perspective of Surgical/Orthodontic Management of Dentofacial Deformities: Where We Were, Where We Are, Where We Are Going  Bryan Bell
9:00 - 10:00am Surgery First: Indications and Contraindications from the Surgeon’s and an Orthodontist’s Perspectives  David Shafer & Flavio Uribe
10:00 - 10:30am BREAK IN EXHIBIT HALL
10:30 - 11:30am Cleft Palate and Craniofacial Update on Orthodontics and Surgery  Timothy Turvey & Carroll-Ann Trotman
11:30 - 12:00pm Q&A Session with Friday morning speakers
12:00 - 2:00pm LUNCH IN EXHIBIT HALL
Session II: Controversies Within the Specialties  Dr. Huang, moderator
2:00 - 3:00pm Heads or Tails: Oral Appliance or Maxillomandibular Advancement for Obstructive Sleep Apnea  Peter Waite & Scott Conley
3:00 - 3:15pm BREAK IN EXHIBIT HALL
3:15 - 4:15pm Point/Counterpoint: Orthognathic Correction of Anterior Open Bite in Adults – Maxilla or Mandible  Don Joondeph & Dale Bloomquist
4:15 - 4:45pm Q&A Session with Friday afternoon speakers
5:00 - 6:00pm RECEPTION IN EXHIBIT HALL

SATURDAY January 23

7:15 - 8:00am  CONTINENTAL BREAKFAST
8:00 - 8:15am  ANOUNCEMENTS
Session III: New Evidence to Guide Our Treatment  Dr. Rafetto, moderator
8:15 - 9:00am  Treatment Options in Maxillary Transverse Skeletal Deficiencies  Norman J. Betts
9:00 - 9:45am  Surgically Facilitated Orthodontic Therapy (SFSOT): The Direction is “Clear”  Richard Roblee
9:45 - 10:15am BREAK IN EXHIBIT HALL
10:15 - 11:00am Management of Third Molars: Minimizing Risks  Thomas Dodson
11:00 - 11:45am Management of Moderate to Advanced TMJ Disorders: Current Status of Options  Shaun Matthews
11:45 - 12:00pm Q&A Session with Saturday morning speakers
12:00 - 2:00pm LUNCH IN EXHIBIT HALL
Session IV: Current Risk Management Issues  Dr. Indresano, moderator
2:00 - 3:00pm Complications in Orthognathic Surgery  Brad Williams
3:00 - 3:15pm BREAK IN EXHIBIT HALL
3:15 - 4:00pm The Law and Dental Technology: The Future is Now  Art Curley
4:00 - 4:30pm Q&A Session with Saturday afternoon speakers

SUNDAY January 24

7:15 - 8:00am  CONTINENTAL BREAKFAST
8:00 - 8:15am  ANOUNCEMENTS
Session V: Technology’s Impact on our Teamwork – The Future is Here  Dr. Butterfoss, moderator
8:15 - 9:05am  Facial Aging: Orthodontic/Surgical Treatment Plan Considerations that Reverse and/or Prevent Facial Aging  David Sarver
9:05 - 9:55am  Adjunctive Hard and Soft Tissue Procedures to Augment Orthodontics/Orthognathics  Jon Perenack
10:00 - 11:30am 2D or NOT 2D? That is the Question! A Clinical Perspective on Orthognathic Planning with 3D Technology  Paul Thomas
11:30 - 12:00pm Q&A Session with Sunday morning speakers
Registration, Policies and Information

Dates and Location

January 22-24, 2016
(Exhibit Hall is open January 22 & 23)

Hyatt Regency Indian Wells Resort & Spa
44600 Indian Wells Lane, Indian Wells, CA 92210

Registration Fees

<table>
<thead>
<tr>
<th>Membership Category</th>
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<td>AAO &amp; AAOMS Active &amp; Retired Members</td>
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Registration includes lectures and scheduled food functions.

AAO Contact

Phone 314-993-1700   800-424-2841
email info@aaortho.org

AAO & AAOMS Member Services

AAO membership benefits and services will be showcased during the conference in the Registration Area. Look for the AAO & AAOMS Member Services display, which will be open during registration hours.

Exhibit Hall Hours

Friday, January 22   9:30am - 6:00pm
Saturday, January 23 9:30am - 5:00pm

Exhibit Hall Disclaimer

By attending the American Association of Orthodontists (AAO) Winter Conference you acknowledge and accept that the AAO has assumed no duty to review, investigate, or otherwise approve, and has not reviewed, investigated, or otherwise approved, the quality, type, message, nature, or value of any product or service marketed by attendees and exhibitors. As such, you should conduct your own independent research of such products or services, and the AAO disclaims any liability for any damages to person or property arising out of any product or service.

Audio Recording, Video Recording and Photography Policy

Attendees are not allowed to audio or video record any portion of this conference. This includes all lectures, the exhibit hall, activities or any other portion of this conference. Photography is prohibited throughout the exhibit hall and inside the lecture hall while lectures are in session.

Registration Area Hours

Thursday, January 21  4:00pm - 6:00pm
Friday, January 22    7:00am - 4:00pm
Saturday, January 23  7:00am - 4:00pm
Sunday, January 24    7:00am - 12:30am

The following items will be available in the registration area:

- On-site conference program
- New registration
- Name badge changes/corrections
- Certificates of attendance

* Spouse registration fee does not include admittance to the lecture hall or CE credit.
Continuing Education Credit Hours
(12 CE credits available at this meeting)

American Association of Orthodontists 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.

American Association of Orthodontists designates this activity for a maximum number of 12 continuing education credits. Credits are awarded on actual attendance at individual sessions.

CE Credit reports will be available via the mobile app. Reports may also be accessed from the convenience of your home or office computer following the conference. Go to aaoinfo.org > Education > CE Manager.

Please note that due to varying state/province/country continuing education requirements, it is the responsibility of the individual attendee to print their own CE hours report and to submit any necessary continuing education credit documentation to their individual state/province/country to determine what items are necessary to satisfy your continuing education requirements. The AAO will NOT mail CE reports.

Disclosure of Financial and/or Beneficial Interest

Presenters who have a financial and/or beneficial interest in any product or service related to their presentation are marked with an asterisk (*) next to their names in the Conference Program.

Disclosure of Visual Enhancement

Presenters who enhance, modify, or alter photography, computer images, radiographic images, or other visual images related to their presentation are referenced next to their lecture title in the Conference Program.

Professional Audio Recording

The audio portion for most of the lectures presented may be purchased as a set. Most of the recordings will also include the speakers’ slides as an integrated synchronized file. The recordings will be available on USB thumb drives and as a Web access link (or both as a combo purchase). The recordings may be ordered on-site or after the conference at slightly higher prices.

Scientific Program Policies

Cell phones and other electronic devices must be turned off or turned to silent mode. Please be courteous to the other attendees and leave the room if you need to converse.

The lectures are restricted to registered attendees only. Spouses, guests and children are not allowed in the lecture hall at any time.
Lecture Program  FRIDAY, JANUARY 22

Session I: Orthodontic/Surgical Teamwork: Enhancing the Planning and the Outcome

Moderator: Dr. David R. Musich

CE Credit hours: 1.5 for Bell and Shafer/Uribe lectures

8:15 AM - 9:00 AM

A Historical Perspective of Surgical-Orthodontic Management of Dentofacial Deformities: Where We Were, Where We Are, Where We Are Going

R. Bryan Bell*, DDS, MD, FACS, FACD
Portland, OR, USA

Orthognathic surgery evolved during the last century as innovative surgeons and orthodontists collaborated towards the goal of optimizing the correction of dentofacial deformities. This presentation will review the scientific development of surgical-orthodontic treatment in North America and Europe, which led to the current state of the art, incorporating 3D computer planning to achieve idealized esthetics and function. Future directions in diagnosis, treatment planning and surgical-orthodontic management will also be discussed.

Learning Objectives:

- Describe the scientific rationale for the surgical-orthodontic treatment of dentofacial deformities
- List key historical figures who directed the development of orthognathic surgery
- Evaluate the current state of the art of surgical-orthodontic treatment including computer aided surgical simulation

9:00 AM - 10:00 AM

Surgery First: Indications and Contraindications from the Surgeon’s and Orthodontist’s Perspectives

Flavio Uribe, DDS, MDentSc
Farmington, CT, USA

David M. Shafer, DMD
Farmington, CT, USA

Surgery first has revived as a surgical approach in orthognathic surgery to reduce treatment duration and eliminate the accentuation of the dentofacial deformity that occurs with presurgical orthodontics. Skeletal anchorage, along with the use of surgical...
rigid internal fixation and 3-D virtual planning, has made this approach more feasible. Research studies have shown a reduction in treatment duration of 30 - 70%.

Learning Objectives:
- Describe the inefficiencies in the Conventional Orthognathic Surgery Sequence
- Discuss the integration and coordination need in the use orthodontic and surgical techniques to obtain a successful outcome using a Surgery First treatment plan
- Describe the use of CAD-CAM Technology in Surgery First

Dr. Uribe is an associate professor and program director in the Division of Orthodontics at the University of Connecticut, USA. He is a diplomate of the American Board of Orthodontics, and a member of the Edward H Angle Society and the AAO Council of Scientific Affairs. He has authored and coauthored numerous book chapters and articles in peer-reviewed journals. Dr. Uribe received a Biomedical Research Award from the AAO Foundation in 2012 and was recently named Charles Burstone Professor.

Dr. Shafer is associate professor and chair of the Division of Oral and Maxillofacial Surgery at the Univ of Connecticut School of Dental Medicine. He is a member of the American Association of Oral and Maxillofacial Surgeons and is currently secretary/treasurer of the Connecticut Association of Oral and Maxillofacial Surgeons. He serves in national and international organizations related to dental implant therapy, research and education; is a fellow of the International Team for Oral Implantology and serves on its Development Committee; and recently participated at the Academy of Osteointegration’s Workshop on the State of the Science on Implant Dentistry.

CE Credit hours: 1.0

10:30 AM - 11:30 AM
Cleft Palate and Craniofacial Update on Orthodontics and Surgery

Carroll Ann Trotman, BDS, MS, MA
Boston, MA, USA

Timothy M. Turvey, DDS
Chapel Hill, NC, USA

This presentation will focus on the current thoughts of orthodontic and surgical management of children and adults with facial clefts (cleft lip and palate) and craniofacial conditions. The contemporary goal of treatment is the restoration of facial balance and preservation of the dentition without the need for prosthetic rehabilitation. The timing and sequencing of bone grafting and orthodontic intervention will be highlighted. Current thoughts on bone grafting techniques, midfacial osteotomy design and adjunctive skeletal contouring procedures will be presented, as well as new thoughts on the use of devices designed for assisting retention. When prosthetic rehabilitation is unavoidable, orthodontic and surgical intervention is a critical part of the planning and execution of care to assure quality results. Adequacy of bone and space for the prosthesis is critical. Pre-prosthetic management will be discussed.

Learning Objectives:
- Review the benefits of a low maintenance, non-prosthetic treatment for patients with facial clefts and craniofacial conditions
- Relate current philosophy on the timing of bone grafting and to review the latest technique
- Demonstrate the indications and technique of midfacial advancement and contour bone grafting in cleft patients and other craniofacial conditions

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Lecture Program  FRIDAY, JANUARY 22

Dr. Trotman is professor, chair, and program director of the Department of Orthodontics at Tufts University School of Dental Medicine. Her clinical and research activities have been centered on the care and treatment of patients with craniofacial anomalies. Prior to her appointment at Tufts, she served as faculty and on the Cleft Lip and Palate/Craniofacial Teams at the University of Michigan and the University of North Carolina Chapel Hill, and currently on the Tufts Team. Dr. Trotman’s NIDCR funded research has focused on the development of objective measures to assess the outcomes of facial soft tissue surgery -- outcomes of lip repair and lip revision -- in patients with cleft lip/palate.

Dr. Turvey is professor and chairman of the Department of Oral and Maxillofacial Surgery at the University of North Carolina and the University of North Carolina Hospitals. His career has been devoted to the surgical care of patients with birth defects affecting the craniofacial region, and he is a participant at the UNC Craniofacial Center. He has published and presented extensively in more than 35 countries and has received numerous teaching and leadership honors and awards, including the AAOMS Donald Osborn Educators Award, the William Gies Award for outstanding contributions to Oral and Maxillofacial Surgery, and the Southeastern Society of Oral and Maxillofacial Surgeons Outstanding Educator Award.

11:30 AM - 12:00 PM
Q&A Session with morning speakers

Session II: Controversies Within the Specialties
Moderator: Dr. Greg J. Huang

2:00 PM - 3:00 PM
Heads or Tails: Oral Appliance or Maxillomandibular Advancement for Obstructive Sleep Apnea
Peter D. Waite, MPH, DDS, MD
Birmingham, AL, USA
R. Scott Conley, DMD
Ann Arbor, MI, USA

The pathophysiology of obstructive sleep apnea is poorly defined, but in most patients it is thought to be related to maximal relaxation of the upper airway during rapid eye movement sleep. The patient commonly complains of daytime fatigue or sleepiness; restless, poor quality sleep at night; loud obnoxious snoring; sudden arousal and gasping for breath during sleep; and morning headache, putting them at great risk for myocardial infarction and early death. Diagnostic tests, evaluative procedures, and various surgical and non-surgical techniques will be presented and discussed, including maxillo-mandibular advancement surgery or mandibular advancement alone. Surgical techniques to decrease the resistance and open the upper airway are also a key area for research. New testing and diagnostic procedures will also be presented and discussed.

Learning Objectives:
• Review the history, diagnosis and medical risk of OSA without treatment
• Evaluate the pathophysiology of chronic airway obstruction on the cardiopulmonary system

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Demonstrate treatment options and indications, including CPAP, oral advancement splints, surgical procedures such as septoplasty, uvulopharyngoplasty, and maxillo-mandibular advancement surgery.

Dr. Waite is a professor and the McCallum Chair of the Department of Oral and Maxillofacial Surgery at the University of Alabama. He received his dental degree from the University of Minnesota School of Dentistry and his MD from the University of Alabama School of Medicine. He is a member of the American Medical Association, American Dental Association, American Association of Oral and Maxillofacial Surgeons, American Academy of Cosmetic Surgery, American Sleep Disorders Association, and a Fellow of the American College of Surgeons. Dr. Waite has clinical expertise in impacted teeth, orthognathic surgery, craniofacial, cleft lip/palate, facial reconstruction, cosmetic surgery, obstructive sleep apnea and dental implants. He is an internationally recognized lecturer, a past president of the AACS, and editor of Peterson’s Principles of Oral & Maxillofacial Surgery.

Dr. Conley received his dental degree from the University of Pennsylvania and his orthodontic degree from Vanderbilt University Medical Center, then joining the full time orthodontic faculty at Vanderbilt. He is currently the Robert W. Browne Endowed Professor and clinical associate professor in the Department of Orthodontics and Pediatric Dentistry at the University of Michigan, and is also the graduate orthodontic clinic director and co-director of the University of Michigan Dentofacial Deformities Clinic. Dr. Conley is a recipient of two Biennial Edward H. Angle Research Awards, an American Journal of Orthodontics CDABO Case Report of the Year, and multiple AAOF grant awards. He is the Great Lakes representative to the AAO Council on Orthodontic Education and the director of the North Atlantic Component of the Edward H. Angle Society.

3:15 PM - 4:15 PM

Point/Counterpoint: Orthognathic Correction of Anterior Open Bite in Adults—Maxilla or Mandible

Donald R. Joondeph, DDS, MS
Bellevue, WA, USA

Dale Bloomquist, DDS, MS
Seattle, WA, USA

Historically, open bite closure through surgical counterclockwise rotation of the mandible and intermaxillary wire fixation was discontinued due to the high degree of instability associated with this approach. Instead, correction of open bite deformities with maxillary surgical impaction became the standard of care. Currently, however, the development of rigid internal fixation has allowed clinicians to again consider correcting anterior open bite discrepancies in the mandible with bilateral split osteotomies and counterclockwise rotation of the distal segment. This presentation will review the advantages and disadvantages of both treatment approaches.

Learning Objectives:

- Determine the appropriate treatment approach to surgically correct an anterior open bite malocclusion
- Compare the long-term stability of surgical open bite correction with either maxillary impaction or mandibular counterclockwise rotation

Dr. Joondeph is currently a professor emeritus of orthodontics at the University of Washington and was chair of the Department from 1975 to 1984. He has served as president of the Northwest Component of the Edward H. Angle Society, Washington State Society of Orthodontists and...
the Pacific Coast Society of Orthodontists. He was a director of the American Board of Orthodontics from 1986 to 1993 and served as president of the ABO from 1992 to 1993. He has represented the Pacific Coast Society of Orthodontists as an AAO trustee and is a past president of the American Association of Orthodontists. He has served on and is a past chair of the Commission on Dental Accreditation. Dr. Joondeph was the recipient of the Milo Hellman Research Award in 1972 and the Albert H. Ketcham Award in 2003 from the AAO, and has presented the AAO Jacob A. Salzmann, John V. Mershon and Edward H. Angle Award Lectures. He currently combines his faculty responsibilities with a private practice in Bellevue, Washington.

Dr. Bloomquist graduated from the University of Washington Dental School in 1969 and finished Oral and Maxillofacial training at Georgetown University in 1972, obtaining his MS degree in 1973 from Georgetown. He has been on the faculty at University of Washington since 1972, was acting Chair of Oral and Maxillofacial Surgery 2009-2013, and was made an Emeritus Associate Professor in 2003. He has been co-director of the Orthognathic Surgery conference for Oral and Maxillofacial Surgery residents and Orthodontic graduate students since 1981. His private practice is limited to Orthognathic surgery.

4:15 PM - 4:45 PM
Q&A Session with afternoon speakers
Session III: New Evidence to Guide Our Treatment

Moderator: Dr. Louis K. Rafetto

8:15 AM - 9:00 AM

Treatment Options in Maxillary Transverse Skeletal Deficiencies

Norman J. Betts, BS, DDS, MS
Ann Arbor, MI, USA

The transverse dimension of the maxillomandibular complex must be evaluated, diagnosed and addressed in order to achieve stability following orthodontic/orthognathic correction. Orthopedic maxillary expansion (non-surgical) is effective and stable in the young population prior to sutural closure, and is not effective or stable in patients following sutural closure in the maxillofacial complex. During this presentation different treatment options for patients with maxillary transverse skeletal deficiencies will be illustrated and discussed.

Learning Objectives:
- Diagnose maxillary transverse skeletal deficiency
- List the different treatment options for maxillary transverse skeletal deficiency
- Analyze the limitations, advantages and disadvantages of the different treatment options for maxillary transverse skeletal deficiency

9:00 AM - 9:45 AM

Surgically Facilitated Orthodontic Therapy (SFOT): The Direction is “Clear”

Richard D. Roblee*, DDS, MS
Fayetteville, AR, USA

Many complex interdisciplinary problems involve deficiencies or discrepancies in the dentoalveolar complex that can prolong treatment time and compromise overall outcomes. Surgically Facilitated Orthodontic Therapy (SFOT), in combination with skeletal anchorage, can shorten treatment times, modify vertical relationships and enhance the development of the arch form, alveolar bone and soft tissue to ideally address these issues involving the dentoalveolar...
complex. Special focus will be given to utilizing high-tech clear aligners instead of traditional orthodontic appliances to add a new and exciting dimension to SFOT while significantly increasing patient treatment acceptance.

Learning Objectives:
• Describe interdisciplinary diagnostics and treatment planning for the SFOT patient
• Combine hard and soft tissue grafting with selective corticotomies
• Utilize skeletal anchorage with SFOT to modify vertical relationships

Dr. Roblee practiced restorative dentistry in Dallas before specializing in orthodontics at Baylor College of Dentistry. He is renowned for his work in esthetic dentistry, orthodontic techniques and interdisciplinary therapy. Dr. Roblee lectures extensively and is the author of numerous publications including a textbook on Interdisciplinary Dentistry. He is an associate clinical professor in orthodontics at Baylor College of Dentistry and maintains a full-time practice in Fayetteville, Arkansas.

Dr. Dodson is professor and chair of the Department of Oral and Maxillofacial Surgery at University of Washington School of Dentistry and the Associate dean for Hospital Affairs. He received his dental degree from Harvard School of Dental Medicine and Masters of Public Health from Harvard School of Public Health and completed his OMS training at University of California-San Francisco. Additional post-doctoral training included a Dental Public Health residency and a NIH-funded fellowship in Clinical Epidemiology at UCSF. Dr. Dodson believes that patients are our partners in discovery. As such, his research interests lie primarily in outcomes research devoted to topics of interest to the specialty and developing and promoting evidence-based clinical decision-making.

10:15 AM - 11:00 AM
Management of Third Molars: Minimizing Risks
Thomas B. Dodson, DMD, MPH
Seattle, WA, USA

This presentation will provide data-driven opportunities to minimize the risks associated with operative treatment of impacted third molars (M3s). The topics to be addressed during the presentation are preventing mandibular nerve injuries, minimizing periodontal defects after M3 removal, and limiting the risk of postoperative inflammatory complications.

Learning Objectives:
• Recognize high-risk radiographic findings on panoramic imaging associated with mandibular nerve injuries
• Identify risk factors associated with persistent periodontal defects after M3 removal
• Describe the role of antibiotics in preventing postoperative inflammatory complications
Management of Moderate to Advanced TMJ Disorders: Current Status of Options

Shaun Matthews, BDS, FDS, MBBS, FRCS
Chapel Hill, NC, USA

Although the initial management of temporomandibular joint disorders is almost always conservative in nature, surgery plays an important part in the treatment of temporomandibular dysfunction. In this lecture, the full spectrum of surgical options will be discussed, ranging from the minimally invasive approach of arthrocentesis and arthroscopy to the contemporary management of end stage disease utilizing total joint replacement prostheses. The versatility of joint replacement surgery and how it applies to challenging trauma, pathology and orthognathic cases will be demonstrated by examples of patients treated by a combination of this approach and virtual surgical planning.

Learning Objectives:

- Discuss the surgical management of TMJ disorders
- Describe the techniques of TMJ arthrocentesis, arthroscopy and total joint replacement
- Outline the fundamental principles of virtual surgical planning as it relates to orthognathic surgery

Dr. Matthews is a clinical associate professor in the Department of Oral and Maxillofacial Surgery at the University of North Carolina School of Dentistry. Prior to that he practiced as an attending surgeon for 11 years at King's College Hospital in London. He did specialist training at the Canniesburn Hospital in Glasgow, Scotland, cultivating a specific interest in TMJ and orthognathic surgery. In 2009, Dr. Matthews established the first true TMJ Multidisciplinary Team Clinic in the United Kingdom, a model which is now being mimicked internationally. He has written several book chapters and over 30 peer review articles on TMJ-related subjects and delivered papers all over Europe, North America and India. He is a member of the American, European and British Societies of TMJ Surgeons and his work on jaw joint replacement surgery has been extensively cited in several international journals, newspapers, and the BBC News.
Lecture Program  SATURDAY, JANUARY 23

Session IV: Current Risk Management Issues
Moderator: Dr. Thomas A. Indresano

CE Credit hours: 1.5 for Williams and Curley lectures

2:00 PM - 3:00 PM
Complications in Orthognathic Surgery
W. Brad Williams, DMD, MD
Oakland, CA, USA

This presentation will share the Kaiser Permanente Northern California experience with complications in orthognathic surgery. Covered topics will include preoperative, intraoperative, early postoperative as well as late postoperative complications in orthognathic surgery.

Learning Objectives:
• Recognize and prevent possible complications in orthognathic surgery at all stages of patient treatment
• Manage complications of orthognathic surgery when they arise

Dr. Williams is a senior surgeon at the Kaiser Permanente Northern California Kaiser Oakland Medical Center, where his practice focuses primarily on orthognathic, temporomandibular joint and craniofacial surgery.

3:15 PM - 4:00 PM
The Law and Dental Technology: The Future is Now
Art Curley, BS, JD
Larkspur, CA, USA

Healthcare technology, such as digital records, communications, imaging, modeling and simulation, has improved patient care and at the same time is challenging traditional notions of the standard of care, informed consent, and what had been considered complications and successful outcomes. This presentation will review how legal risks are changing, what risks are trending, and what we can expect in the future, and will offer tips on preventative measures to be considered and implemented

Learning Objectives:
• Recognize the impact of dental technology on the standard of care
• Manage patient education to include informed refusal
• Evaluate imaging and simulated cases for risk reduction

Mr. Curley is a senior trial attorney in a San Francisco-based healthcare defense firm. He is also an assistant professor of dental jurisprudence at the Arthur A. Dugoni School of Dentistry in San Francisco and an adjunct faculty professor at UC-San Francisco. He graduated with honors from UC-Berkeley and obtained his J.D. from the University of California, Hastings School of Law in San Francisco. As a trial attorney, Mr. Curley has been defending doctors for over 39 years and has presented risk management courses throughout the US and Canada. He is an associate of the American Board of Trial Advocates. He has published several articles on risk management and authored chapters in several textbooks.

4:00 PM - 4:30 PM
Q&A Session with afternoon speakers
Session V: Technology’s Impact on our Teamwork – The Future is Here

Moderator: Dr. Thomas W. Butterfoss

CE Credit hours: 1.5 for Sarver and Perenack lectures

8:15 AM - 9:05 AM

Facial Aging: Orthodontic/Surgical Treatment Plan Considerations that Reverse and/or Prevent Facial Aging

David M. Sarver, DMD, MS
Vestavia Hills, AL, USA

It has long been accepted that orthodontic/surgical and interdisciplinary treatment should make every effort to achieve long-term stability of result. But as our procedures have progressed, it is equally as important that the esthetic outcome also have long-term goals. This presentation will cover pertinent data on how the hard and soft tissues of the craniofacial complex change over decades and how this data impacts our treatment planning. In addition, the incorporation of other disciplines are integral to outstanding immediate and long-term results.

Learning Objectives:

• Outline what to expect in hard and soft tissue changes well after the procedures are completed
• Recognize what adjunctive care may be successfully incorporated into cases and how to successfully coordinate care
• Demonstrate how to successfully communicate treatment goals with the patients, with their participation, and with other doctors

9:05 AM - 9:55 AM

Adjunctive Hard and Soft Tissue Procedures to Augment Orthodontics/Orthognathics

Jon D. Perenack, DDS, MD
New Orleans, LA, USA

Traditional orthognathic surgery aligns the patient’s bony jaws into a desired more appropriate position but may leave other cosmetic issues unaddressed. Soft tissue deformities may be treated concomitantly with orthognathic surgery, including soft tissue augmentation (fillers), reduction (liposuction), hard tissue augmentation, cosmetic lip procedures and rhinoplasty. Some cosmetic adjunctive procedures may be performed later, after soft tissue edema from orthognathic surgery has resolved, to achieve a more predictable outcome. Undesired cosmetic changes may occur months to years after orthognathic surgery and may be addressed by adjunctive cosmetic procedures.

Learning Objectives:

• Assess facial features that may be modified cosmetically both surgically and non-surgically
• Sequence facial cosmetic surgery procedures in respect to concomitant orthognathic surgery
• Recognize revision and camouflage techniques to improve or correct cosmetic outcomes in the post orthognathic patient

Dr. Sarver received his DMD from The University of Alabama School of Dentistry and MS in Orthodontics from the University of North Carolina. He is a co-author of the surgical text “Contemporary Treatment of Dentofacial Deformity” and a co-author of the 4th and 5th editions of Proffit’s classic textbook “Contemporary Orthodontics”.

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Dr. Perenack's practice is almost solely devoted to facial cosmetic and reconstructive surgery. He has received board certification from both the American Board of Cosmetic Surgery in Facial Cosmetic Surgery and American Board of Oral and Maxillofacial Surgery. He completed fellowship training at the Facial Plastic and Cosmetic Surgery Center in Texas in 2003, preceded by a six year residency in Oral and Maxillofacial at LSU Health Sciences Center, where he also completed medical school. Dr. Perenack is an adjunctive associate clinical professor of the LSU Department of Oral and Maxillofacial Surgery and was the director of residency training 2005 - 2014. He has numerous journal and book chapter publications in the cosmetic field to his credit and has spoken on the subject internationally.

**CE Credit hours: 1.5**

**10:00 AM - 11:30 AM**

**2D or NOT 2D? That is the Question! A Clinical Perspective on Orthognathic Planning with 3D Technology**

**Paul M. Thomas, DMD, MS, FDS[RCSEd]**

Bonvilston, Cardiff, Wales

Although traditional 2D planning methods work well for many patients, the critical 3rd dimension is missing for planning asymmetry correction. Contemporary 3D planning software solves that problem in addition to providing the option to use rapid prototyping in creating cutting guides and inter-occlusal surgical templates. This presentation will explore the process of virtual surgery planning and its use in postoperative follow-up. The question of efficacy and value will be addressed.

**Learning Objectives:**
- Identify which patients indicate the use of 3D planning
- Describe the assembly of the various files needed for the planning process
- Explain how the plan is used in 3D printing

Dr. Thomas graduated from the University of Kentucky and completed his oral and maxillofacial surgery training at the Albert B. Chandler Medical Center in Lexington. After practicing for 8 years, he received an NIH post-doctoral fellowship at the University of North Carolina - Chapel Hill orthodontic program. Remaining on full-time faculty at UNC, he was active in research related to orthognathic surgery stability, rigid fixation and digital imaging for orthognathic planning. Most recently he was senior research fellow at the Eastman Dental Institute and University College Hospital in London, England. He has served as a scientific advisor and consultant to Dolphin Imaging and Management Solutions since 1995.

**11:30 AM - 12:00 PM**

**Q&A Session with morning speakers**
2016 Winter Conference
Collaborative Management of Complex Dentofacial Conditions

Exhibit Hall - Indian Wells Ballroom
Exhibit Guide

24Frames, Inc.
102 Evergreen Court
Collinsville, Illinois 62234
United States
6189174143
www.24framesinc.com
info@24framesinc.com


Exhibit 227

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Monrovia, Ca 91016
United States
6265744441
3M Unitek
cmsmith@mmm.com

Exhibit 300

3Shape
10 independence Blvd suite 150
Warren, New jersey 7059
United States
9088670144
www.3shape.com
info@3shape.com

3shape TRIOS Intraoral scanning enables orthodontists to save time, see more patients and digitally archive cases to save storage space.

Exhibit 310

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United States
4088851474
www.anatomage.com
info@anatomage.com

Check out the latest technology at Anatomage, your CBCT software solution for dental anatomy analysis, implant planning, and surgical guides.

Exhibit 107

365 Printing
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United States
8886039140
www.365printing.com
info@365printing.com

365 Printing delivers high quality 3D printing solutions to orthodontists, helping them provide more efficient and affordable patient care.

Exhibit 328

Beck Instruments
1507 W Alton Ave
Santa Ana, California 92704
United States
7147541101
www.beckinstruments.com
eabeck@sbcglobal.net

Supplier of fine orthodontic and oral surgery hand instruments.

Exhibit 204
Exhibit Guide

Brasseler USA
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United States
9122248089
www.brasselerusa.com
suedenitto@brasselerusa.com
Exhibit 125

Carestream Dental
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United States
8009446365
www.carestream.com
info@carestream.com
Carestream Dental provides a complete set of integrated solutions specifically designed for orthodontists.
Exhibit 119

ClearCorrect
21 Cypress Blvd Suite 1010
Round Rock, TX 78665
United States
8883313323
www.clearcorrect.com
info@clearcorrect.com
ClearCorrect - An orthodontic lab based in Round Rock, Texas that develops customized clear aligners used to straighten patient’s teeth.
Exhibit 121

Cloud9ortho
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Kennesaw, Georgia 30144
United States
7703091355
www.cloud9ortho.com
info@cloud9ortho.com
Provides a browser-based system for management & imaging for Orthodontics and Pediatric Dentistry. No servers needed.
Exhibit 213

Crest Oral B
1769 Kains Ave
San Bruno, CA 94066
United States
6508714622
www.dentalcare.com
ching.mm@pg.com
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Exhibit 225

Crystal Clear Digital Marketing
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Orlando, FL 32819
United States
8886118279
www.crystalcleardm.com
sales@crystalcleardm.com
Exhibit 226
Exhibit Guide

**Danville Materials, LLC**
3420 Fostoria Way Suite A200
San Ramon, California 94583
United States
9259846846
www.danvillematerials.com
tbruns@daneng.com

Danville Materials is the manufacturer of the Micro-etcher - Intra Oral Sandblaster; Microcab - dust cabinet; Microprophy prophyljet.

**Exhibit 129**

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**Dentaurum USA**
2050 Cabot Blvd., West, Ste. 100
Langhorne, PA 19047
United States
8005233946
www.dentaurum.com
info@dentaurum-us.com

Dentaurum has provided innovation and premium quality to the orthodontic market for over 125 years.

**Exhibit 109**

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**Dentalfone**
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www.dentalfone.com
info@dentalfone.com

Dentalfone’s helps you increase referrals from GPs, get more 5-Star Reviews, and helps your practice stand-out and get picked.

**Exhibit 228**

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Chatsworth, California 91311
United States
8005487241
www.dolphinimaging.com
sales@dolphinimaging.com

Dolphin provides diagnostic, treatment planning, case presentation, practice management, and patient education software for orthodontists. Mobile and Cloud applications available.

**Exhibit 201**

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**DynaFlex**
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United States
8004894020
Dynaflex.com
info@dynaflex.com

**Exhibit 320**

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**Eversmile, inc.**
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United States
8555952999
www.eversmilewhite.com
camilo@eversmilewhite.com

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**Exhibit 222**

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3148785985
www.forestadentusa.com
karrid@forestadentusa.com

Worldwide manufacturer of high-quality, orthodontic appliances. The innovative product line includes: brackets, bands, buccal tubes, expansion screws, archwires and instruments.

**Exhibit 212**
## Exhibit Guide

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United States
8005261026
www.GHOrthodontics.com
orders@ghortho.com

“Innovator, Manufacturer, and Global Supplier of Orthodontic Supplies.”

**Exhibit 330**

### Hu-Friedy Mfg. Co., LLC
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Chicago, IL 60618
United States
7738685565
www.hu-friedy.com
info@hu-friedy.com

**Exhibit 224**

### Japan Dental Specialties
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Irvine, California 92614
United States
9493548534
www.headdental.com
kazu.tanji@gmail.com

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**Exhibit 207**

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United States
7064488600
www.HenryScheinOrtho.com
USASales@HenryScheinOrtho.com

Henry Schein Orthodontics™ provides an array of innovative products, services, and educational courses to help build a successful orthodontic practice.

**Exhibit 209**

### invisalign iTero
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San Jose, California 95131
United States
4084701000
www.invisalign.com
customercareops@aligntech.com

Align Technology manufactures invisalign and is a leader in digital dental solutions for orthodontics and comprehensive restorative dentistry.

**Exhibit 322**

### LED Dental
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Atlanta, Georgia 30346
United States
6788256622
www.leddental.com
caroline.roberts@leddental.com

LED Dental offers advanced diagnostic imaging technology that seamlessly integrates into dental and specialty practices.

**Exhibit 231**
Exhibit Guide

LeoneAmerica
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United States
8054879868
www.americantooth.com
info@americantooth.com

LeoneAmerica company, a sales division of American Tooth Industries, has been manufacturing high quality orthodontic products since 1934.

Exhibit 221

Motion View Software LLC
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Hixson, TN 37343
United States
4235444382
www.motionview3d.com
sylvia@motionview3d.com

Exhibit 131

ORMCO
1717 W Collins Ave
Orange, California 92867
United States
8008541741
www.ormco.com
info@ormco.com

Ormco manufactures products including the Damon™ System and Ormco™ Custom. Ormco is committed to helping orthodontists achieve their goals.

Exhibit 326

Lighthouse 360
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United States
8884476294
LH360.com
shows@ydle.com

Exhibit 220

MyProViewer
1106 Sawmill Rd
Waterloo, Ontario 0
Canada
8665210555
www.myproviewer.com
info@myproviewer.com

Exhibit 230

Ortho Traction Pads
PO Box 20
Old Greenwich, CT 6870
United States
2036980291
www.orthotractionpads.com
elizabeth@orthotractionpads.com

Exhibit 211

MAGNUM ORTHO
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Chandler, AZ 85225
United States
4806332777
www.magnumortho.com
ortho@magnummed.com

Magnum Ortho markets Orthodontic pliers, Mathieu, Hand Instruments. We also provide other orthodontic accessories.

Exhibit 318

Ortho2
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Ames, Iowa 50010
United States
8006784644
www.ortho2.com
sales@ortho2.com

Ortho2 Edge delivers all-encompassing practice management, imaging, and communication solutions through truly optimized Cloud Computing technology for all platforms.

Exhibit 113
Exhibit Guide

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United States
8887580585
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marketing@orthobanc.com

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**Exhibit 205**

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United States
5048344392
www.orthosynetics.com
info@orthosynetics.com

OrthoSynetics assists practices with the business, marketing, and administrative aspects of running an orthodontic practice.

**Exhibit 203**

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United States
8008405383
www.pbhs.com
info@pbhs.com

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**Exhibit 324**

**Propel Orthodontics**
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www.propelortho.com
info@propelortho.com

Propel's mission is to lead the future of orthodontic acceleration by providing innovative products that connect technology and bioscience.

**Exhibit 304**

**PLANMECA USA, Inc.**
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United States
6305292300
www.planmecausa.com
sales@planmecausa.com

**Exhibit 103**

**Quintessence Publishing Co., Inc**
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United States
6307363600
quintpub.com
service@quintbook.com

Quintessence is an international publisher of dental books, journals and multimedia products.

**Exhibit 304**

**Plaque HD**
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Joliet, Illinois 60436
United States
5612132789
www.plaquehd.com
klandino@plaquehd.com

Plaque identifying toothpaste

**Exhibit 308**
Exhibit Guide

**Reliance Orthodontic Products, Inc.**
1540 W. Thorndale Avenue
Itasca, IL 60143
United States
8003234348
WWW.RELIANCEORTHODONTICS.COM
paulgropi@aol.com
Orthodontic Adhesives, Cements, Sealants, Specialty Adhesive, Bonding Accessories and Auxiliary Items.

Exhibit 223

**ROCO, Inc.**
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Denver, Colorado 80204
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www.rmortho.com
sales@rmortho.com

Exhibit 210

**Rose micro Solutions**
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West Seneca, NY 14224
United States
7166080009
www.rosemicrosolutions.com
mark@rosemicrosolutions.com
Rose Micro Solutions sells Optical Loupes & LED Lighting systems.

Exhibit 219

**Ross orthodontic**
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Midlothian, Texas 76065
United States
8002474109
www.rossorthodontic.com
info@rossorthodontic.com

Exhibit 312

**Spectrum Lasers INC**
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Exhibit 208

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tops Software offers innovative Mac-based software—management, imaging and cephalometrics—for orthodontic practices worldwide.

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Treloar & Heisel is the premier financial services provider to dental and medical professionals across the country.

**WildSmiles Braces**
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Omaha, Nebraska 68144
United States
8553989453
wildsmilesbraces.com
davin@wildsmilesbraces.com

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**Weave**
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United States
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info@getweave.com

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Xemax is a manufacturer and supplier of unique devices for dental specialties, such as the Cusp-Lok Impacted Cuspid Traction System.
## Future AAO Meetings

### Annual Sessions

<table>
<thead>
<tr>
<th>Year</th>
<th>Location</th>
<th>Dates</th>
<th>Venue</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>Orlando, Florida, USA</td>
<td>April 29 - May 3</td>
<td>Orange County Convention Center</td>
</tr>
<tr>
<td>2017</td>
<td>San Diego, California, USA</td>
<td>April 21-25</td>
<td>San Diego Convention Center</td>
</tr>
<tr>
<td>2018</td>
<td>Washington DC, USA</td>
<td>May 4-8</td>
<td>Walter E. Washington Convention Center</td>
</tr>
<tr>
<td>2019</td>
<td>Los Angeles, California, USA</td>
<td>May 3-7</td>
<td>Los Angeles Convention Center</td>
</tr>
<tr>
<td>2020</td>
<td>Atlanta, Georgia, USA</td>
<td>May 1-5</td>
<td>Georgia World Congress Center</td>
</tr>
<tr>
<td>2021</td>
<td>Boston, Massachusetts, USA</td>
<td>April 23-27</td>
<td>Boston Convention &amp; Exhibition Center</td>
</tr>
</tbody>
</table>

### Winter Conferences

<table>
<thead>
<tr>
<th>Year</th>
<th>Location</th>
<th>Dates</th>
<th>Venue</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>Fort Lauderdale, Florida, USA</td>
<td>February 10-12</td>
<td>Marriott Harbor Beach Resort &amp; Spa</td>
</tr>
<tr>
<td>2018</td>
<td>AAO/AAPD Joint Winter Conference</td>
<td>Scottsdale, Arizona, USA</td>
<td>February 9-11</td>
</tr>
</tbody>
</table>

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The audio portion of most of the lectures presented at this conference will be available on a USB thumb drive and as a web access link. Most of the recorded lectures will also include the speaker’s synchronized screen presentation. These recordings are not for CE credit.

Visit the onsite recording sales booth during the conference or go to www.aaovideo.com to order.

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**Note:** The recordings must be played on a computer with Adobe Flash Player and either Internet Explorer 6.0+ (PC) or Mozilla Firefox or Safari (Mac).