2015 Winter Conference

Early Orthodontic Treatment: Who, When, Why and How to Treat

February 6-8
Miami Beach, Florida
Loews Miami Beach Hotel

Conference lectures and exhibit hall are located in the Americana Ballroom.

Onsite Program & Exhibit Guide
Dear Orthodontic Colleague,

Welcome to the 2015 Winter Conference! We believe that the learning experience that you will have during the next two days will help you maintain the best possible level of care for your youngest patients.

Individually and collectively, our speakers’ panel possesses world-class expertise on early orthodontic treatment. From intensive, in-depth coverage of extraction and non-extraction to functional jaw orthopedics, and from early Class II treatment to ethical decision-making, this conference will provide a wealth of timely information and evidence addressing treatment dilemmas that many of us face on a daily basis.

We also hope that you also enjoy the extra time to spend with your family, visit the Exhibit Hall and enjoy Miami Beach that is made possible by the shortened daily program schedule.

Sincerely,

Robert Varner, DMD
AAO President, 2014-2015
Friday February 6

7:15 - 8:00am  CONTINENTAL BREAKFAST IN AMERICANA FOYER
8:00 - 8:15am  Welcome and Introductions

Extraction/Non-extraction

8:15 - 9:00am  Point/Counterpoint: The Case for Non-extraction in the Mixed Dentition  James McNamara
9:00 - 9:45am  Point/Counterpoint: Extraction in the Mixed Dentition–A Reasonable Option for Selected Patients? James Vaden
9:45 - 10:30am Extraction/Non-extraction: The Impact on Stability and the Face Larry Tadlock
10:30 - 11:00am COFFEE BREAK IN EXHIBIT HALL
11:00 - 12:00pm The Use of Miniplates for Non-extraction Treatment of Class II Malocclusions Hugo De Clerck
12:00 - 1:30pm  LUNCH IN EXHIBIT HALL

Class III

1:30 - 2:15pm  Point/Counterpoint: Orthopedic Treatment of Class III Malocclusion Patrick Turley
2:15 - 3:00pm  Point/Counterpoint: Orthodontic Camouflage of Class III David Musich
3:00 - 3:30pm  COFFEE BREAK IN EXHIBIT HALL

SATURDAY February 7

7:15 - 8:00am  CONTINENTAL BREAKFAST IN AMERICANA FOYER

Vertical/Transverse/Ectopic

8:00 - 8:45am  SLEEP DISORDERED BREATHING IN CHILDREN Benjamin Pliska
8:45 - 9:30am  Management of Anterior Openbite Malocclusions in the Mixed Dentition Greg Huang
9:30 - 10:15am Ectopic Teeth: Who, When, How to Intervene Stella Chaushu
10:15 - 10:45am COFFEE BREAK IN EXHIBIT HALL
10:45 - 11:30am Parent/Child Management: Insights from Contemporary Psychology Barbara Sheller
11:30 - 12:00pm Incisor Trauma and Early Orthodontic Treatment Lorne Koroluk
12:00 - 1:30pm  LUNCH IN EXHIBIT HALL

Unique Children’s Issues

1:30 - 2:15pm  Building and Keeping Your File of Gold Charlene White
2:15 - 3:00pm  Marketing for Growth to Millennials and Their Families Carleton Wilkins
3:00 - 3:30pm  COFFEE BREAK IN EXHIBIT HALL

SUNDAY February 8

7:15 - 8:00am  CONTINENTAL BREAKFAST IN AMERICANA FOYER

Class II

8:00 - 9:00am  Early Class II Treatment HeeSoo Oh
9:00 - 10:00am Can We Grow Mandibles? Who, How, When? Lorenzo Franchi
10:00 - 10:30am COFFEE BREAK IN AMERICANA FOYER
10:30 - 11:30am Early vs Late Class II: What Does Science Tell Us? Steven Marshall
11:30 - 12:00pm To Treat or Not to Treat: That is the Question! Peter Greco
Registration, Policies and Information

Dates and Location

February 6-8, 2015
(Exhibit Hall is open February 6 & 7)

Loews Miami Beach Hotel
1601 Collins Ave.
Miami Beach, FL 33139

AAO Contact

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

Registration Fees

<table>
<thead>
<tr>
<th>Category</th>
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<tr>
<td>AAO Active &amp; Retired Members</td>
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<tr>
<td>Orthodontic Staff</td>
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Registration includes all lectures and all planned food functions.

* Spouse registration fee does not include admittance to the lecture hall or CE credit.

Cyber Café

Get connected in the Cyber Café, located in the Ballroom Foyer. The hours of operation coincide with the registration hours.

AAO Member Services

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

Exhibit Hall Hours

The AAO reserves the right to modify the official exhibiting hours based on the final program.

Friday - Saturday, February 6 & 7
9:30am - 3:30pm

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.

Registration Area Hours

<table>
<thead>
<tr>
<th>Day</th>
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<tbody>
<tr>
<td>Thursday, February 5</td>
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<td>Friday, February 6</td>
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<td>Saturday, February 7</td>
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<tr>
<td>Sunday, February 8</td>
<td>7:00am - 12:30pm</td>
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Audio Recording, Video Recording and Photography Policy

Attendees are not allowed to audio record or video record any portion of this conference. This includes all lectures, other meetings, 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.
Continuing Education Credit Hours

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 15 continuing education credits. Credits are awarded on actual attendance at individual sessions.

Computers will be available on-site to print CE Credit reports. Just follow the instructions on the screen to select lectures attended and print your CE report. Reports may also be accessed from the convenience of your home or office computer following the conference. Go to www.aaoinfo.org, and under the Education heading click on the link “CE Manager.”

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 at this conference can be purchased as a set. Most of the recordings will also include the speaker’s presentation slides as an integrated synchronized file. The recordings will be available as a DVD-ROM in MP3 format or as an ONLINE ACCESS link (or both as a combo purchase), and can be pre-ordered as part of your online registration for this conference at a discounted pre-event price. The recordings can also be ordered on-site or after the conference at slightly higher prices.

Disclosures 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 (*) in the Conference Program.

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, FEBRUARY 6**

**CE Credit:** 3.0 hours if attending all Friday morning lectures.  
No partial credit can be given.

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**Extraction/Non-extraction**

**8:15 AM - 9:00 AM**

**Point/Counterpoint:**  
*The Case for Non-extraction in the Mixed Dentition*  
James A. McNamara, DDS, PhD  
Ann Arbor, MI, USA

This presentation will address the findings of a series of prospective and retrospective clinical studies of orthodontic and orthopedics intervention in the early mixed dentition. Guidelines will be presented as to which patients will benefit from treatment with a bonded rapid maxillary expander, preceded in some instances by a removable lower Schwarz expansion appliance. Other patients, especially those with large tooth size, will benefit from a serial extraction protocol. In managing tooth-size/arch-size discrepancies in the mixed dentition, common sense must prevail.

**Learning Objectives:**
- Relate the indications for the use of a bonded acrylic splint expander  
- Determine which patients will benefit from removable Schwarz treatment  
- Recognize which patients can be treated non-extraction and which patients require extraction of permanent teeth

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**9:00 AM - 9:45 AM**

**Point/Counterpoint:**  
*Extraction in the Mixed Dentition — A Reasonable Option for Selected Patients?*  
James L. Vaden, DDS, MS, PC  
Cookeville, TN, USA

This lecture will discuss a bit of the history of the extraction/non-extraction controversy, which will focus on extraction of deciduous and then permanent teeth in the mixed dentition. The case reports used to illustrate this lecture have significant tooth arch length discrepancies that required the removal of dental units in order for the patient to have an esthetic, healthy, functional and stable dentition.

**Learning Objectives:**
- Recognize the malocclusion that might require removal of dental units during the mixed dentition phase of dental development  
- Identify selected teeth that should be considered for removal at a particular age  
- Evaluate a patient who has tooth arch length discrepancies for possible extraction in the mixed and/or early permanent dentition

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**Dr. McNamara** is the Graber Endowed Professor Emeritus in Orthodontics at the University of Michigan. He was the recipient of the AAO Albert H. Ketcham Memorial Award in 2008, and delivered the Jacob Salzmann Memorial Lecture at the 1994 AAO Annual Session in 1994, the John V. Mershon Memorial Lecture in 2002, and the Edward Angle Lecture in 2014. Dr. McNamara has published over 280 articles in the orthodontic literature; has written, edited or contributed to over 70 books; and has lectured in 42 countries. He is a past president of the Midwest Angle Society.

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**Dr. Vaden** has been a private practitioner in Cookeville, Tennessee since 1972. During his professional career, he has been privileged to serve as a director of The American Board of Orthodontics, as the commissioner for orthodontics for the Commission on Dental Accreditation, and as a member of various AAO standing committees and councils. In addition to his private practice, Dr. Vaden has also been active with the Tweed Study Course and has been the assistant course director since 1988.
9:45 AM - 10:30 AM

**Extraction/Non-extraction: The Impact on Stability and the Face**

Larry P. Tadlock, DDS, MS  
Keller, TX, USA

The decision to treat with or without extractions is a treatment decision that should be based on specific, evidence-based facial, skeletal and dental treatment objectives. This lecture will explore two critical components of specific treatment objectives, facial esthetics and stability, and how the decision to extract or not impacts both.

Learning Objectives:
- Define the ideal range of facial esthetic treatment goals
- Determine the treatment approach that maximizes facial esthetics and stability

**Dr. Tadlock** has been in the private practice of orthodontics in N. Richland Hills and Keller, Texas since 1988. He is a director of the American Board of Orthodontics, and will be president of the ABO in 2018. He is an associate clinical professor of orthodontics at Texas A&M Baylor College of Dentistry in Dallas, and has been teaching there since 2000. Dr. Tadlock has served the profession in numerous capacities and is a past president of the Southwestern Society of Orthodontists.

11:00 AM - 12:00 PM

**The Use of Miniplates for Non-extraction Treatment of Class II Malocclusions**

* Hugo DeClerck, DDS, PhD  
Brussels, Belgium

The main advantage of skeletal anchorage by modified miniplates is their fixation at a distance from the dental arch. It makes them very suitable for distal movement of the complete upper arch in Class II treatment without extraction of premolars. No headgear and almost no Class II elastics are needed. Furthermore, it can be a good alternative to a combined orthodontic-surgical approach for treating adult Class II subdivision 2 malocclusions. Molar distalization is also needed for the correction of a Class II malocclusion resulting from bone anchored Class III orthopedics in growing children.

Learning Objectives:
- Define the indications for non-extraction treatment with or without orthognathic surgery
- Choose the appropriate biomechanics to distalize the upper dentition with miniplate anchorage
- Correct a Class II malocclusion after Class III orthopedics

**Dr. De Clerck** is a graduate of the Rijksuniversiteit Gent’s orthodontic program, he received his PhD in 1986 and he maintains a private practice in Brussels. He received the European Research Essay Award in 1988. His research team received the Dewel Award for the highest-rated clinical research paper published in the AJO-DO in 2011. He has been professor and chairperson of the Department of Orthodontics at the Université Catholique de Louvain from 1989 to 2006. Currently he is an adjunct professor at the University of North Carolina at Chapel Hill. Dr. De Clerck is a past president of the Belgian Orthodontic Society and a Fellow of the Royal College of Surgeons of England. His main research interests are in skeletal anchorage, biomechanics and orthopedics. He has lectured extensively on these topics throughout the world.
Class III

1:30 PM - 2:15 PM

Point/Counterpoint:
Orthopedic Treatment of Class III Malocclusion

Patrick Turley, DDS, MSD, MEd
Hawthorne, CA, USA

Class III malocclusion is characterized by a malrelationship of the maxilla and mandible, with maxillary hypoplasia being the most common characteristic. Facemask palatal expansion therapy has become the most common and predictable approach to early correction, which occurs by a combination of skeletal and dental movements. The amount of skeletal vs. dental movement is due to many factors such as the expansion protocol, protraction force levels, hours of wear per day, overall treatment time, appliance design, retention protocol, and individual variation. Because of the skeletal etiology of Class III malocclusion, treatment focused on improving skeletal relations would seem to be most prudent, with camouflage therapies limited/held for those cases with limited to no growth remaining, needing dental movements to obtain a final acceptable result.

Learning Objectives:
- Describe the mechanism by which the facemask corrects a Class III malocclusion
- Determine the effectiveness of facemask therapy at different ages
- Discuss the benefits of palatal expansion in early Class III treatment

2:15 PM - 3:00 PM

Point/Counterpoint:
Orthodontic Camouflage of Class III

David R. Musich, DDS, MS
Schaumburg, IL, USA

Class III problems with intermediate severity can be effectively managed with a camouflage treatment approach that improves the occlusion but does not change the underlying skeletal imbalance. This presentation will describe the case characteristics of Class III patients that will most likely benefit from a camouflage approach. In addition, this presentation will illustrate patient management strategies that are useful when treating growing patients with a “camouflage treatment plan” so that risks are minimized and parent and patient expectations are achieved.

Learning Objectives:
- Recognize the case characteristics of Class III patients who will benefit from camouflage management of their malocclusion
- Define the limitations of camouflage therapy for the growing Class III patient
- Differentiate Class III camouflage patients from Class III orthopedic patients and Class III surgical patients

Dr. Turley graduated from the UCLA School of Dentistry and then attended the University of Washington in Seattle, where he was dual-trained in both pediatric dentistry and orthodontics. Dr. Turley was a full-time professor at UCLA, serving as chairman of the Orthodontic Department until 1997, when he entered private practice. He is past president of the Pacific Coast Society of Orthodontists and of the Edward H. Angle Society Southern California Component. Dr. Turley is a Diplomate of the American Board of Orthodontics. Dr. Turley presented the Edward H. Angle Lecture at the 2007 AAO Annual Session. He has lectured in more than 30 states and 20 foreign countries. Dr. Turley is married to Dr. Patricia Turley, a pediatric dentist.

Dr. Musich is a graduate of the University of Nebraska’s orthodontic program and for the past 42 years has been teaching at the University of Pennsylvania School of Dental Medicine, where he is currently a clinical professor of orthodontics. He has co-authored the adult and orthognathic surgery chapters for the past five editions of the Graber, Vanarsdall, Vig textbook, Orthodontics - Current Principles and Techniques. Dr. Musich has lectured on the topic of adult orthodontics throughout the United States, Canada, South America, Egypt & Europe. In 2009, he received the AAO’s James E. Brophy Distinguished Service Award.
Lecture Program  SATURDAY, FEBRUARY 7

8:00 AM - 8:45 AM
Sleep Disordered Breathing in Children
Benjamin Pliska, DDS, MS, FRCD(C)
Vancouver, B.C., Canada

Sleep Disordered Breathing (SDB) is a relatively common, yet under-diagnosed, disease in children often caused by altered form and function of craniofacial and upper airway anatomy. This lecture will review SDB pathophysiology and present the emerging evidence pointing to the role of orthodontics in the treatment of the disease in children.

Learning Objectives:
• Discuss the relationship between sleep disordered breathing and craniofacial growth and development
• Evaluate the most recent literature describing orthopedic treatment of sleep disorders in children and adolescents

Dr. Pliska is an assistant professor at the University of British Columbia Faculty of Dentistry, an orthodontic consultant at BC Children's Hospital, and maintains a private practice in Vancouver as a certified specialist in orthodontics. He is a graduate of Western University School of Dentistry and obtained his certificate in orthodontics and master's degree from the University of Minnesota.

Dr. Pliska’s research interests include airway imaging and pediatric sleep medicine.

8:45 AM - 9:30 AM
Management of Anterior Openbite Malocclusions in the Mixed Dentition
Greg J. Huang, DMD, MSD, MPH
Seattle, WA, USA

Parents often seek advice for their children with anterior openbites during the mixed dentition. Historically, these malocclusions have been challenging to treat, and early management would seem to offer advantages, especially when habits are involved. Dr. Huang will discuss the epidemiology of openbite, as well as etiologic factors. He will also describe some strategies to manage anterior openbites during the mixed dentition and comment on the evidence for the effectiveness of early correction and subsequent stability.

Learning Objectives:
• Describe the distribution of anterior openbite malocclusion in the U.S. population
• Identify etiologic factors
• Counsel patients/parents on different treatment strategies and explain their effectiveness and stability

Dr. Huang is presently chairman and professor at the Department of Orthodontics at the University of Washington. He is well-known as a proponent of evidence-based dentistry. He is a Diplomate of the American Board of Orthodontics, serves on the editorial boards of several orthodontic journals, and is an associate editor of the American Journal of Orthodontics and Dentofacial Orthopedics.

9:30 AM - 10:15 AM
Ectopic Teeth: Who, When, How to Intervene
Stella Chaushu, DMD, PhD
Jerusalem, Israel

There are four main areas where orthodontics may be useful in the treatment of ectopic teeth in the mixed dentition: unerupted
maxillary central incisors, ectopic maxillary canines, ectopically erupting maxillary first molars resorbing second deciduous molars and isolated impacted/ankylosed first molars. Ectopic maxillary incisors are associated with either obstruction in the path of eruption or trauma to primary anterior teeth early in life. This presentation will focus on obstructed maxillary central incisors. The widely accepted mantra declares, “Remove the cause and they erupt by themselves,” .... but do they? Is every patient a suitable case? Treat early or treat late? Which is the most suitable approach to appliance therapy when the dentition comprises multiple deciduous teeth? Do we need follow-up into the permanent dentition? With all that we know today, why do we also fail?

Learning Objectives:
• Determine the most suitable timing for treatment of ectopic central incisors
• Propose the optimal strategy for the successful management of ectopic maxillary incisors
• Recognize and avoid the pitfalls in treatment

Dr. Chaushu is an associate professor and chairperson of the Department of Orthodontics of the Hebrew University Hadassah School of Dental Medicine in Jerusalem, Israel. She has published over 70 articles in international refereed journals and six book chapters. She is an editorial board member of the AJO-DO and reviews articles for many international journals. She is an invited speaker at national congresses in many countries, and presents lectures and courses internationally on impacted teeth, on the delivery of orthodontic treatment to special needs children with (Dr. Adrian Becker), and on the orthodontic-periodontic interface.

10:45 AM - 11:30 AM
Parent/Child Management: Insights from Contemporary Psychology
Barbara Sheller, DDS, MSD
Seattle, WA, USA

Child and adolescent behavior, including cooperation / non-coop-
eration, is of interest to orthodontists, educators, parents, and society. Behavior has developmental, social and cultural contexts. Understanding behavior is a key to gaining cooperation during a dental appointment, communicating effectively with parents, and maintaining office harmony. This lecture will include behavior-related insights from current research in human psychology.

Learning Objectives:
• Recognize functional and dysfunctional parent-child relationships
• Identify strategies to use in the orthodontic office to promote patient coping and cooperation

Dr. Sheller is an orthodontist and pediatric dentist, practicing at Seattle’s Children’s Hospital. She is an affiliate professor in orthodontics and in pediatric dentistry at the University of Washington School of Dentistry. Dr. Sheller is a Diplomate of the American Board of Pediatric Dentistry, a Fellow of the American College of Dentists, and is currently vice president of the Washington State Society of Orthodontists. She has authored many scientific publications but is primarily a practicing clinician. Her aims as an educator are clinically relevant, evidence-based, thought-provoking seminars presented in a memorable style.

11:30 AM - 12:00 PM
Incisor Trauma and Early Orthodontic Treatment
Lorne D. Koroluk, DMD, MSD, MS
Chapel Hill, NC, USA

Incisor trauma in the developing dentition is a common occurrence that can have significant long term sequelae. This lecture will review the epidemiology and risk factors associated with incisor trauma. Increased overjet and lip incompetence have been suggested as justification for early orthodontic treatment in the mixed dentition to prevent future incisor trauma. This lecture will present an evidence-based review of the effectiveness and efficiency of early orthodontic treatment to prevent incisor trauma.

Learning Objectives:
• Describe the epidemiology of incisor trauma in the mixed dentition
Lecture Program SATURDAY, FEBRUARY 7

- Identify risk factors for incisor trauma
- Assess the effectiveness and efficiency of early orthodontic treatment in preventing incisor trauma

**Dr. Koroluk** received his DMD degree from the University of Saskatchewan, his certificate in pediatric dentistry and MSD degree from Indiana University, and his certificate in orthodontics and MS degree from the University of Minnesota. Since 1998 he has been on the faculty of the University of North Carolina School of Dentistry, where he has a joint appointment in the departments of pediatric dentistry and orthodontics. He is a Diplomate of the American Board of Orthodontics and the American Board of Pediatric Dentistry as well as having fellowships in both pediatric dentistry and orthodontics with the Royal College of Dentists of Canada. Dr. Koroluk currently maintains practices in both orthodontics and pediatric dentistry.

2:15 PM - 3:00 PM

**Marketing For Growth to Millennials and Their Families**

*Carleton Wilkins*
Jacksonville, FL, USA

A practice’s core marketing plan is most often rooted in accomplishing three primary objectives: 1) Increasing NP calls, 2) Improving case acceptance rates, and 3) Differentiating the practice to yield “top of mind awareness.” The strategic creation and deployment of multimedia can not only meet these three goals, but also accomplish such with minimal management overhead and oversight. And what’s more, multimedia can propagate its own ROI, yielding better returns month after month.

Learning objectives:
- Discuss the consumer psychology and market conditions that have yielded this opportunity
- Formulate a schedule for capturing photo/video and delegating the responsibility
- Present a formula for making multimedia an invaluable asset in marketing the practice

**Unique Children’s Issues**

1:30 PM - 2:15 PM

**Building and Keeping Your File of Gold**

*Charlene White, BS*
Virginia Beach, VA, USA

The observation recall system is often unrated as a future source of new practice. Charlene has helped many practices increase their practice productivity by evaluating the recall system in the practice.

Learning Objectives:
- Describe how to build a recall system through excellent scripting
- Maintain and follow up to keep effectiveness at 85 percent +
- Create an atmosphere where children look forward to their next visit

**Carleton Wilkins** is the founder and president of Ingenuity Marketing. Combining his education in marketing, entrepreneurial experience, and early background in medicine, he offers a unique perspective on the business of orthodontics. Carleton launched Ingenuity in 2009 as a full service practice-marketing agency for orthodontists. His approach to practice growth is largely built on the concept of brand alignment, with a focus on automating the systems and solutions that help his clients attract more, better patients.
Lecture Program  SUNDAY, FEBRUARY 8

CE Credit: 3.5 hours if attending all Sunday morning lectures. No partial credit can be given.

Class II

8:00 AM - 9:00 AM
Early Class II Treatment
Heesoo Oh, DDS, MS, PhD, MSD
Foster City, CA, USA

One of the most heated controversies in orthodontics concerns the role of early treatment in the correction of Class II malocclusions. These concerns are based primarily on the interpretation of outcomes of the randomized clinical trials (RCT) conducted at three leading universities. Although these studies are considered milestones in orthodontic research, the results might not be relevant to the “real” world of orthodontic practice. This presentation will describe the clinical outcomes of orthodontic intervention from three private practices where the comprehensive early treatment modality is routinely delivered by advocates of mixed dentition treatment. The discussion will focus on comparing the effectiveness of early comprehensive treatment of patients with moderate-severe Class II malocclusions to changes observed in untreated Class II and late single-phase Class II treatment samples. Other benefits and limitations will also be discussed.

Learning Objectives:
• Describe a brief history of mixed dentition treatment
• Describe the general rationale and protocol for comprehensive mixed dentition orthodontic treatment
• Recognize the effectiveness and benefits of early treatment in correcting developing moderate-severe Class II malocclusions during the mixed dentition stage

Dr. Heesoo Oh currently holds the position of Associate Professor and Graduate Program Director of the Department of Orthodontics at the University of the Pacific, Arthur A. Dugoni School of Dentistry in San Francisco, California. She received her DDS, MS in pedodontics, and her PhD from Chonnam National University in Kwangju, Korea. She later earned her MSD in orthodontics at the University of the Pacific. Her research focuses primarily on clinical outcome studies investigating the effects of various therapeutic interventions. She has received multiple awards from the American Association of Orthodontists Foundation.

9:00 AM - 10:00 AM
Can we Grow Mandibles? Who - How - When?
Lorenzo Franchi, DDS, PhD
Florence, Italy

Is functional jaw orthopedics (FJO) able to increase mandibular length in Class II patients? What is the best timing to start FJO? What are the factors that influence the outcomes of FJO, and who are the best candidates for this type of therapy? These and other key questions pertaining to FJO will be addressed. In particular, the issue of early vs. late treatment of Class II malocclusion associated with mandibular retraction will be illustrated by means of a systematic review and meta-analysis of the literature.

Learning Objectives:
• Evaluate evidence-based results on the treatment outcomes of Class II malocclusion
• Recognize the role of treatment timing for optimal efficiency in Class II treatment
• Identify the adequate patient for FJO

Dr. Franchi completed his PhD in preventive orthodontics in 1997 at the University of Florence, Italy. He is presently assistant professor in the Department of Orthodontics of the University of Florence, and the Thomas M. Graber Visiting Scholar at the Department of Orthodontics and Pediatric Dentistry of the School of Dentistry at the University of Michigan in Ann Arbor.
**Lecture Program**  
**SUNDAY, FEBRUARY 8**

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

*Early vs Late Class II Treatment: What Does Science Tell Us?*

**Steven D. Marshall, DDS, MS, MS**  
Barrington, IL, USA

This presentation will review the relevant prospective trials and retrospective studies that have provided information on the efficiency and effectiveness of treatment for class II malocclusion. Emphasis will be on the strength of the evidence available for early intervention versus intervention in the late-mixed/early permanent dentition.

Learning Objectives:
- Assess the study designs used to provide information on the efficiency and effectiveness of class II treatment
- Recognize the value and limitations of prospective trials

**Dr. Marshall** received his orthodontic training at the Northwestern University Dental School. He is in his 26th year of private practice and holds memberships in the Edward H. Angle Society and the College of Diplomates of the American Board of Orthodontics. He is currently an adjunct associate professor of orthodontics at the University of Iowa College of Dentistry.

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

*To Treat or Not to Treat: That is the Question!*

**Peter Greco, DMD, CertOrtho**  
Philadelphia, PA, USA

Given the various perspectives regarding the necessity of early treatment, the orthodontist is sometimes uncertain as to whether early treatment should be initiated. This lecture will explore the ethical issues involved in recommending early treatment. Critical thinking about each patient’s needs, by evaluating every patient individually, will be emphasized.

Learning Objectives:
- Analyze the role of ethics in early treatment
- Develop thought processes to augment clinical decisions regarding early treatment

**Dr. Greco** authors a monthly editorial titled “Ethics in Orthodontics” in the *American Journal of Orthodontics and Dentofacial Orthopedics*. He is a clinical professor in the Department of Orthodontics at The University of Pennsylvania School of Dental Medicine, and is the attending orthodontist at Thomas Jefferson University Hospital in Philadelphia. He is director of the “Ethics in Orthodontics” and “TMD Diagnosis and Treatment” courses at Penn. Dr. Greco is a past-president of the American Board of Orthodontics, and is a member of the Eastern Component of the E.H. Angle Society, the American College of Dentists, and the American Society for Dental Ethics. He is in private practice in Philadelphia and Ardmore, Pennsylvania.
Exhibit Guide

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2724 S. Peck Rd
Monrovia, CA 91016 USA
626-574-4441
Fax: 626-574-4538
www.3M Unitek

3M Unitek is a leading ISO-Certified manufacturer and worldwide supplier of premier professional orthodontic products.

Exhibit #: 211

ClearCorrect
21 Cypress Blvd. Ste. #1010
Round Rock, TX 78665 USA
888.331.3323
Fax: 713.583.9643
www.clearcorrect.com

ClearCorrect™, develops clear, custom, removable braces and works with over 15,000 doctors, making it a leading manufacturer of clear aligners.

Exhibit #: 300

DynaFlex
10403 International Plaza Dr
St Ann, Miss 63074 USA
800-489-4020
Fax: 314-429-7575
www.dynaflex.com


Exhibit #: 310

American Orthodontics
3524 Washington Avenue
Sheboygan, WI 53081 USA
920-457-5051
www.americanortho.com

American Orthodontics is dedicated to the highest level of product quality, dependable delivery and personalized service.

Exhibit #: 404

Cloud9ortho
1301 Shiloh Rd NW
Kennesaw, GA 30144 USA
800.394.6050
sales@cloud9ortho.com
www.cloud9ortho.com

Provides browser-based software for orthodontic offices for management, imaging, and cephalometrics.

Exhibit #: 101

G&H Orthodontics
2165 Earlywood Drive
Franklin, IN 46131 USA
800-526-1026
Fax: 317-346-6663
www.gortho.com

Manufacturer and supplier of high quality orthodontic products, including MIM and CIM brackets, MIM tubes, bands, wires, elastomerics and springs.

Exhibit #: 309

Benevis, LLC
1090 Northchase Parkway Southeast
Suite 150
Marietta, GA 30067 USA
www.benevis.com

Comprehensive practice services company committed to improving healthcare access by providing non-clinical business support services to healthcare organizations.

Exhibit #: 210

Doctorsinternet.com
15 Ward Dr
New Rochelle, NY 10804 USA
800.416.5235
Fax: 800-416-5235
www.doctorsinternet.com

Creates websites for dentists and then markets them online in an effort to place well in Google searches.

Exhibit #: 208

Gaidge
2835 Northpoint Blvd
Hixson, TN 37343 USA
Fax: 888.758.0587
www.gaidge.com

An automated practice performance analysis tool that provides information to make informed decisions without complicated manual processes. Accelerate your practice.

Exhibit #: 303
Exhibit Guide

**Henry Schein Orthodontics**
1822 Aston Ave.  
Carlsbad, CA 92008 USA  
760-448-8600  
Fax: 760.448.8612

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

*Exhibit #: 305*

**Invisalign iTero**
2560 Orchard Parkway  
San Jose, CA 95131 USA  
www.aligntech.com

*Align manufactures Invisalign® and is a leader in digital dental solutions.*

*Exhibit #: 107*

**i-CaT Imaging Sciences**
2800 Crystal Drive  
Hatfield, PA 19440 USA  
Fax: 704-587-7239  
www.i-cat.com

*i-CAT offers the i-CAT® FLX cone beam 3D system with innovative features for effective orthodontic planning.*

*Exhibit #: 203*

**JES Orthodontics**
1870 N. Corporate Lakes Blvd. # 266892  
Fort Lauderdale, FL 33326 USA  
954.210.5345  
Fax: 954.628.5124  
www.jes-orthodontic.com

*JES Orthodontics manufactures and distributes the latest orthodontic products such as brackets, archwires, curing light, buccal tubes, handpieces, and more.*

*Exhibit #: 202*

**LeoneAmerica**
1200 Stellar Drive  
Oxnard, CA 93033 USA  
805-487-9868  
Fax: 805-483-8482  
Info@americantooth.com  
www.americantooth.com

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

*Exhibit #: 402*

**Magnum Ortho**
3265 N Nevada St  
Chandler, AZ 85225 USA  
480-633-2777  
Fax: 480-633-2525  
magnumortho.com

*Magnum Ortho manufactures, distributes and repairs pliers and instruments*

*Exhibit #: 400*

**Motion View Software LLC**
2730 Kanasita Drive  
Hixson, TN 37343 USA  
423 475 6914  
www.motionview3d.com

*3D facial scanning, intraoral scanners, 3D printers. Precision indirect bonding and clear aligner setups, open file formats, no per-scan fees.*

*Exhibit #: 406*

**MyProViewer**
1106 Sawmill Rd  
Waterloo, Ontario Canada  
1-866-521-0555  
Fax: 1-866-251-8395  
www.myproviewer.com

*HD media delivery system designed to engage, entertain & educate patients while offering an abundance of built-in content and your own!*  

*Exhibit #: 301*
Exhibit Guide

Omni Orthodontics
4334 NW 120th Ave
Coral Springs, FL 33065 USA
877.586.5671
Fax: 954.633.4118
www.omni-orthodontics.com
Orthodontic supplier of: brackets, bands, wires, instruments.
Exhibit #: 304

OrthoBanc
2835 Northpoint Blvd
Hixson, TN 37343 USA
www.orthobanc.com
ACH Draft and Credit Card Payment Options * ZACC Credit Recommendations * Complete Account Management * On-line Payments * Credit Bureau Reporting and Collections.
Exhibit #: 302

Plaque HD
2501 Reeves Rd
Joliet, IL 60436 USA
561-213-2789
Fax: 815.729.9335
www.plaquehd.com
Plaque HD is a standard fluoride toothpaste that identifies and resolves the problem of plaque build up.
Exhibit #: 408

ORMCO
1717 W. Collins Ave.
Orange, CA 92867 USA
www.ormco.com
Ormco manufactures products including the Damon™ System and Ormco™ Custom. Ormco is committed to helping orthodontists achieve their goals.
Exhibit #: 206

Orthopli Corporation
10061 Sandmeyer Ln
Philadelphia, PA 19116 USA
215-671-1000
Fax: 215-464-3779
www.orthopli.com
Family owned and operated manufacturers of orthodontic instruments and photographic mirrors since 1973
Exhibit #: 201

Reliance Orthodontic Products, Inc.
1540 W. Thorndale Avenue
Itasca, IL 60143 USA
www.relianceorthodontics.com
Orthodontic Adhesives, Cleansers, Sealants and Bonding Accessories.
Exhibit #: 105

Ortho2
1107 Buckeye Ave.
Ames, IA 50010 USA
800-678-4644
Fax: 515.233.1454
www.ortho2.com
Ortho2 Edge delivers all-encompassing practice management, imaging and communication solutions through truly optimized Cloud Computing technology for all platforms.
Exhibit #: 307

OrthoSynetics
3850 N. Causeway Blvd. Suite 800
Metairie, LA 70002 USA
877-051-1111
Fax: (877) 391-0592
www.OrthoSynetics.com
OrthoSynetics assists with the business, marketing, and administrative aspects of running an orthodontic practice.
Exhibit #: 209

RM0, Inc.
650 W Colfax Ave
Denver, CO 80204 USA
303-592-8200
Fax: 303-592-8270
www.rmortho.com
RM0 designs, engineers, and manufactures premium quality orthodontic products and services.
Exhibit #: 311
Exhibit Guide

Ross Orthodontic
PO Box 882
Texas, TX 76065 USA
800-247-4109
Fax: 972-775-8758
www.rossorthodontic.com
Orthodontic Office Design Specialists. Manufacturer of delivery units, patient and doctor chairs, sterilization centers, custom cabinetry, and task lighting.

Exhibit #: 200

suresmile
2350 Campbell Creek Blvd
Richardson, TX 75082 USA
972-728-5539
Fax: 972-528-5600
www.suresmile.com
New 7.1 suresmile on the cloud digital technology empowers planning of tooth movement and root position, achieving consistently superior outcomes.

Exhibit #: 204

Treloar & Heisel, Inc.
134 E Washington St
New Castle, PA 16101 USA
800-345-6040
Fax: 724-654-9029
www.th-online.net
Treloar & Heisel is the premier financial services provider to dental and medical professionals across the country.

Exhibit #: 410

Specialty Appliances
4905 Hammond Industrial Drive Ste. J
Cumming, GA 30041 USA
800-522-4636
Fax: 678-513-7345
www.specialtyappliances.com
Full service orthodontic laboratory

Exhibit #: 103

tops Software
3101 Towercreek Pkwy SE, Suite 680
Atlanta, GA 30339 USA
770 627-2527
Fax: 770 726-7832
www.topsOrtho.com
Software offers innovative Mac-based software—management, imaging and cephalometrics—for orthodontic practices worldwide.

Exhibit #: 109

WildSmiles Braces
14441 Dupont Ct
Omaha, NE 68144 USA
855.398.9453
Fax: 402.334.5620
www.wildsmilesbraces.com
WildSmiles Braces are specially designed orthodontic brackets that come in a variety of shapes to make the orthodontic experience fun.

Exhibit #: 111

Stratasys
5 Fortune Drive
Billerica, MA 11821 USA
877-489-9449
www.stratasys.com
Stratasys 3D printers make digital orthodontics happen. Create custom appliances along with highly detailed models quickly, cleanly and efficiently.

Exhibit #: 205

TP Orthodontics, Inc
100 Center Plaza
LaPorte, IN 46350 USA
480.559.9094
Fax: 480.559.9443
www.tportho.com
TP Orthodontics, Inc. supplies premier orthodontic products including an exclusive Personalized Color-Matching Technology®

Exhibit #: 306

Yodle
50 W. 23rd Street, Suite 401
NY, NY 10010 USA
877.276.5104
Fax: 877.276.5104
www.yodle.com
Yodle, a leader in local online marketing, empowers local businesses to find and keep their customers simply and profitably

Exhibit #: 308
## 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>2015</td>
<td>San Francisco, California, USA</td>
<td>May 15-19</td>
<td>Moscone Center</td>
</tr>
<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>
</tbody>
</table>

### Winter Conferences

<table>
<thead>
<tr>
<th>Year</th>
<th>Location</th>
<th>Dates</th>
<th>Venue</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>Indian Wells (Palm Springs), California, USA</td>
<td>January 22-24</td>
<td>Hyatt Grand Champions Resort, Villas &amp; Spa</td>
</tr>
<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>Scottsdale (Phoenix), Arizona, USA</td>
<td>February 9 – 11</td>
<td>The Westin Kierland Resort and Spa</td>
</tr>
</tbody>
</table>

The audio portion of most of the lectures presented at this conference will be available on a DVD-ROM in MP3 format or via an online access link. Most of the recorded lectures will also include the speaker’s synchronized screen presentation. These recordings are not for CE credit.

Order a recording of the conference lectures to use for future reference and share with your entire staff!

### On-site Order Pricing (shipping included)

- **$135 DVD-ROM**
- **$135 Online Access Link**
- **$150 Combo** (both the DVD-ROM and Online Access)

Visit the onsite Recording Sales booth during the conference to get this special onsite order pricing.

### Post-conference

The recordings will also be available to purchase after the conference, but at higher prices at [www.AssociationArchives.com/AAO](http://www.AssociationArchives.com/AAO)

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