2018 Annual Meeting

INSPIRING IMAGINATION - ENHANCING HEALTH

FOCUS ON ASIA-PACIFIC

February 28 – March 3 • Los Angeles, CA
Greetings from the Program Chair

On behalf of the Annual Meeting Program Committee, I would like to invite you to the 33rd Annual Meeting of the Academy of Osseointegration, February 28 – March 3, 2018 at the Los Angeles Convention Center in Los Angeles, California.

The theme of the program ‘Inspiring Imagination – Enhancing Health’ is a reflection on how dental implant treatment impacts health care, while looking into future treatment concepts and modalities. Not only have we invited world renowned speakers to participate, since the international focus this year is on the “Pan Pacific” region, we have also selected several of the top speakers from that region to join us to present.

Furthermore, we are putting a unique twist to the main podium presentations. The moderators, whom the Annual Meeting Program Committee have carefully selected, are encouraged to challenge each presenter with pointed questions at the end of each presentation. This will provide the audience a non-bias and alternative perspective on the presented topics.

The meeting will commence on Wednesday with Hands-On Sessions to upgrade your surgical and prosthetic knowledge and skills. In addition, you do not want to miss the two half-day Pre-conference Courses designed to navigate surgical and prosthetic pitfalls. First, Dr. Jaime Lozada will provide a comprehensive review of head and neck anatomy for implant related surgeries. In the afternoon, Dr. Charles Goodacre will present on implant complications and management. These courses are designed to fulfill some of the requirements for the AO Certificate in Implant Dentistry.

On Thursday, our meeting will kick off in the morning with the popular Corporate Forums, which highlight the latest innovations from a collection of our industry’s leading corporations, followed by the E-Poster sessions in the Exhibit Hall during the lunch hour.

The afternoon’s Opening Symposium, chaired by our president Dr. Michael Norton, will be kicked off by our two keynote speakers: Dr. Harold Slavkin who will discuss personal health care and the future of implant dentistry, while Dr. Stephen Chen will shed light on socket wound healing concepts. Following that, Dr. Matteo Chiapasco will share tips and tricks when dealing with difficult maxillary sinus grafts. The amazing team of Dr. Markus Hürzeler and Dr. Otto Zuhr will wrap the afternoon up by looking at ideas, innovations and discoveries over the years in implant dentistry and determine which of those still withstand the test of time.

Please join us in the Exhibit Hall Thursday evening for our traditional Welcome Reception and E-Poster presentations. Please show your support to the researchers from all over the world, while enjoying hors d’oeuvres, refreshments, networking and visiting our exhibitors to look at the latest they have to offer.

Friday will begin bright and early with ten Morning with the Masters Sessions to provide you the opportunity to interact in an smaller setting with world-renowned experts including Drs. Sascha Jovanovic, Markus Hürzeler, Otto Zuh, Alan Herford, David Guichet, Tomas Albrektsson, Bach Le, Homayoun Zadeh, Robert Vogel, Frank Higginbottom and Masana Suzuki.

Continuing AO’s tradition of supporting research and innovation, the Oral Clinical Research Presentations will be held Friday morning and the Oral Scientific Research and Clinical Innovations Presentations will be held Friday afternoon.

The Friday main podium tracks will consist of eight newly formatted concurrent Surgical and Restorative Point-Counterpoint Sessions. These sessions are designed to delineate the reality and myths on current controversial topics in implant dentistry. Each session entails a small group of panelists, who are world-leading authorities in their own right, on stage together with a moderator. After each panelist presents his/her viewpoint in a short presentation, the moderator will promote debate and attempt to draw meaningful conclusions. It is my honor to have expert clinicians: Drs. Stephen Chen, John Brunski, Franck Renouard, Paul Fugazzotto, Clark Stanford, Edmond Bedrossian, Charles Goodacre and Craig Misch moderate each of these eight sessions.

Friday evening, Dr. and Mrs. Michael Norton will host the President’s Reception, which is complimentary to all attendees and registered guests. This event promises to offer an exciting and fun-filled evening at the Microsoft Square, which is steps away from the Convention Center and the headquarter hotel, the JW Marriott, in the thrilling L.A. Live area.

Saturday will offer the full-day TEAM Program for Allied Staff and Dental Laboratory Technicians that promises to bring the very latest information to their audiences.

The main podium on Saturday morning will be moderated by Dr. Joan Ozmota-Corgel on timely topics such as guided bone regenerations complications (Dr. Isabella Rocchieta), ridge preservation technique (Dr. Eiji Funakoshi), soft tissue deficiency management (Dr. Paul Lin), guided zygoma implants (Dr. James Chow), psychological stress and wound healing (Dr. Mehrdad Favagehi), as well as the controversial root shield procedure (Dr. Phillip Roe).

During lunch, Please join us and experience close interaction with five wonderful clinicians, Drs. Paulo Malo, Isabella Rochietta, Giovanni Zucchelli, Christian Coachman and Stephen Chu, at the Lunch with the Masters. This is the perfect chance to get up close and personal, discussing selected topics with leaders in implant dentistry.
Greetings from the Program Chair

Saturday afternoon’s Closing Symposium promises to end the meeting with a bang with two panel discussion sessions. First, Dr. Michael Norton will host a captivating conversation with a panel of some of our most illustrious and wise implant experts, Drs. Tomas Albrektsson, David Cochran, Ole Jensen, Stephen Parel and Dennis Tarnow. They will reflect on the past and look into future of implant therapy. Last but not least, I will close the meeting moderating three experts, Drs. Stephen Chu, Giovanni Zucchelli and István Urban, on how to optimize implant esthetics using the latest methodologies and philosophies in prosthetic contouring and design and hard and soft tissue grafting. As you can see, the Academy’s 2018 Annual Meeting is fun packed, with a thrilling new format aimed at maximizing audience engagement. It will have many exciting educational and networking opportunities that you do not want to miss. In addition, this is the perfect chance to bring your family to enjoy Disneyland, Universal Studios, visit the famous Rodeo Drive, or attend a Lakers or Clippers game at the Staples Center. We invite you to mark your calendar and register for the meeting today and we look forward to seeing you in sunny and beautiful Los Angeles.

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**REGISTRATION**
Register before January 8, 2018, to take advantage of the advance registration discount*. Registration fees for the Annual Meeting include:

- Most scientific sessions (including TEAM Program and Laboratory Technician programs)
- Admission to the Corporate Forums and Exhibit Hall
- Thursday’s Welcome Reception
- Friday’s President’s Reception
- Continental Breakfasts
- Complimentary Lunches

The Meeting Registration Desk will be located in the West Hall A Registration Area of the Los Angeles Convention Center beginning at 7:00 am, Wednesday, February 28th.

*Non-Members: Become a member of the AO and take advantage of all of the benefits of membership including a huge savings on your registration fees. Membership applications must be received at least two weeks before each deadline date to be considered for the discounted “member rate.”

**TEAM AND LABORATORY TECHNICIAN PROGRAM ATTENDEES**
Anyone registering ONLY for the Saturday TEAM or Laboratory Technician programs may pick up their registration materials at the Meeting Registration Desk in the West Hall A Registration Area of the Los Angeles Convention Center beginning on Saturday, March 3rd.

**ACTIVE DUTY MILITARY REGISTRATION DISCOUNT**
Actively serving military personnel from any country may receive the early registration rate, but are encouraged to preregister early online. After the early registration deadline of January 8, 2018, please contact the AO Registration office at registration@osseo.org or 847-439-1919 for instructions.

Military personnel must be in uniform and present a valid military ID in order to register for the early rate on site.

**HOUSING INFORMATION**
The meeting will be held at the Los Angeles Convention Center in Los Angeles, CA. The convention hotels include the JW Marriott Los Angeles L.A. LIVE, InterContinental Los Angeles Downtown, Courtyard by Marriott Los Angeles L.A. LIVE, Residence Inn by Marriott Los Angeles L.A. LIVE and Luxe City Center Hotel. All of these hotels are walking distance to the Los Angeles Convention Center.

**Hotel Rates:**

- **JW Marriott Los Angeles L.A. LIVE Hotel**
  - $315 Single – Standard King
  - $325 Double – Standard King
  - $325 Single / Double – Double / Double

- **InterContinental Los Angeles Downtown Hotel**
  - $299 Single / Double

- **Courtyard by Marriott Los Angeles L.A. LIVE Hotel**
  - $280 Single – Deluxe King
  - $300 Double – Deluxe King
  - $300 Single / Double – Queen / Queen

- **Residence Inn by Marriott Los Angeles L.A. LIVE Hotel**
  - $303 Single – Studio King
  - $313 Double – Studio King
  - $323 Single / Double – Queen / Queen

- **Luxe City Center Hotel**
  - $280 Single / Double

**Internet:** For best availability, make your reservation online at www.osseo.org.

**Phone:** If making reservation by phone, call the AO official housing provider, onPeak at (855) 904-2787. Attendees outside the U.S. call (312) 527-7300.

**The deadline for hotel reservations is Monday, January 29, 2018.**

Hotel reservations/rate availability are not guaranteed after the room block is full or after January 29, 2018. Please register early – only a limited number of rooms are available.

A portion of the room rate will subsidize the cost of the meeting space rental.
OFFICIAL TRAVEL AGENCY
To book your reservation, call AO’s official travel agency, Uniglobe Preferred Travel, at 1-800-626-0359 and after the prompt dial “0” (M-F 8:30 am – 7:00 pm CST).
Attendees outside the U.S. please call 1-847-640-7100.

TEMPERATURE
The average March temperature in Los Angeles is a high of 71°F to a low of 50°F.

AIRPORT AND GROUND TRANSPORTATION
There are two airports accessible to the Los Angeles area:

Los Angeles International Airport (LAX)
Distance: 17 miles from the Los Angeles Convention Center
Supershuttle: $16 one way. Reservations are required at https://booking.supershuttle.com/
Estimated taxi fare: $50 (one way)

Burbank Bob Hope Airport (BUR)
Distance: 16 miles from the Los Angeles Convention Center
Supershuttle: $24 one way. Reservations are required at https://booking.supershuttle.com/
Estimated taxi fare: $60 (one way)

TOURS
Please contact the Concierge at the hotel for assistance with arranging local tours.

FOCUS ON ASIA PACIFIC
The Academy of Osseointegration is pleased to provide our program with a focus on the Asia-Pacific region. Many of our speakers are from this region and can be identified throughout the program with the symbol next to their name.

TRANSLATION SERVICES
Complimentary simultaneous translation in Japanese, Mandarin and Spanish will be provided in the two main general session rooms.

CONTINUING EDUCATION CREDIT INFORMATION

The Academy of Osseointegration 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. Concerns or complaints about a CE provider may be directed to the provider or to the Commission for Continuing Education Provider Recognition at ada.org/cerp.

This continuing education activity has been planned and implemented in accordance with the standards of the ADA Continuing Education Recognition Program (ADA CERP).

The Academy of Osseointegration designates this activity for 32 continuing education credits. Credit is awarded and based on actual number of contact hours, excluding Corporate Forum presentations, breaks, meals and registration periods. Attendees may claim fewer hours in accordance with their actual attendance. (CE credits are earned by attending all scientific sessions except for the Corporate Forums.) The current term of acceptance extends from 5/1/2014 – 6/30/2018.

The formal continuing education program for the Academy of Osseointegration is accepted by the Academy of General Dentistry (Recognition #145608) for Fellowship/Mastership credit.

The Academy of Osseointegration is also a recognized continuing education provider for the Dental Board of California (RP 3090).

The Academy of Osseointegration is the sole provider of continuing education and is responsible for the program content and faculty selection. The Academy assures that all continuing education presentations are independent of commercial influences. In addition, the Academy of Osseointegration ensures that the scientific basis for clinical and technical CE content is presented in each course through a peer-review process. Speakers are also required to provide an assessment of the benefits and risks associated with any clinical recommendations or treatment options presented.

SPOUSE/GUEST PROGRAM
The Academy of Osseointegration is pleased to offer spouse and companion programs for your travel group. If you are planning to bring a guest (limit 2), please complete the “Spouse/Guest” portion of the registration form. The fee provides your guest with entry to the following:
• Thursday evening Welcome Reception
• Friday evening President’s Reception; and
• Exhibit Hall
ADA CERP, or other educational credit, is not available for a Spouse/Guest registration.
As a service to AO members interested in applying for the AO Certificate in Implant Dentistry, we have categorized each presentation in the Registration Packet, indicating how that presentation corresponds to the CE Requirements for the Certificate. Listed below are the required CE categories for the Certificate.

Each presentation will have a number next to it showing how you may apply that presentation towards your AO Certificate CE requirements.

For example:
**Comprehensive Anatomy Review Related to Dental Implant Dentistry 1**

This presentation would qualify to meet the hours for category 1 Anatomy.

Categories include:

1. **Anatomy** – 4 hours required***
2. Local Anesthetic – 1 hour required
3. Pharmacology – 2 hours required
4. Emergency Medicine – 4 hours required
5. Radiographic Interpretation – 4 hours required ***
6. Diagnosis and Treatment Planning – 10 hours required ***
7. Risk Assessment – 8 hours required ***
8. Radiographic and Surgical Guide Fabrication – 4 hours required ***
9. Surgical Implant Placement – 30 hours required ***
10. Implant Biomaterials – 4 hours required
11. Implant Biomechanics – 8 hours required
12. Restorative Implant Procedures – 25 hours required ***
14. Treatment Planning for Multiple Implant Restorations-FDP – 25 hours required
15. Treatment Planning for the Over Denture Patient – 4 hours required
16. Treatment Planning Options for the Fully Edentulous Patient – 30 hours required
17. Digital and Analog Impressions – 3 hours required
18. Implant Occlusion – 4 hours required

*** Indicates Core Knowledge Categories = 85 hours of CE required.

Please note: Each presentation is only worth the duration of the presentation. For example, if the presentation is 45 minutes long, it would only be worth .75 hours towards the Certificate.

For additional information on the AO Certificate in Implant Dentistry or to apply visit https://osseo.org/ao-certificate.
Schedule-at-a-Glance

WEDNESDAY, FEBRUARY 28
7:00 am – 6:00 pm
Registration
8:00 am – noon
Pre-conference Session:
Comprehensive Anatomy Related to Dental Implant Surgery
9:00 am – noon
Hands-On Workshops
1:00 – 4:00 pm
Hands-On Workshops
1:00 – 5:00 pm
Pre-conference Session:
Implant-related Complications: Causes, Prevention and Management

THURSDAY, MARCH 1
6:30 am – 6:00 pm
Registration
8:00 – 8:45 am
Corporate Forum 1A
9:00 – 9:45 am
Corporate Forum 1B
10:15 – 11:00 am
Corporate Forum 2A
11:15 am – noon
Corporate Forum 2B
Noon – 1:00 pm
New Member Luncheon
Noon – 1:00 pm
Complimentary Lunch in the Exhibit Hall
12:10 – 1:00 pm
E-Poster Presentations
1:00 – 5:30 pm
Welcome Remarks and Opening Symposium: 30 Years Later – What We Did Then, What We Do Know
5:30 – 7:00 pm
Welcome Reception and E-Poster Presentations
7:00 – 9:00 pm
Young Clinicians’ Reception

FRIDAY, MARCH 2
6:30 am – 4:00 pm
Registration
7:00 – 8:00 am
Morning with the Masters
8:00 – 11:40 am
Oral Clinical Research Abstract Presentations
8:00 am – 5:00 pm
Point-Counterpoint: Surgical Track
8:00 am – 5:00 pm
Point-Counterpoint: Restorative Track
11:45 am – 1:15 pm
Complimentary Lunch and E-Poster Presentations
11:45 am – 1:15 pm
Young Clinicians’ Luncheon
1:15 – 4:55 pm
Oral Scientific Research Abstract Presentations
1:15 – 5:05 pm
Clinical Innovations
7:00 – 9:00 pm
President’s Reception in Microsoft Square

SATURDAY, MARCH 3
7:00 am – 3:00 pm
Registration
8:00 am – noon
Saturday Morning Session
8:00 am – 4:00 pm
Laboratory Technician Program
8:00 am – 4:00 pm
TEAM Program
Noon – 1:30 pm
Complimentary Lunch
Noon – 1:30 pm
Lunch with the Masters
1:30 – 2:00 pm
Annual Business Meeting
2:00 – 3:15 pm
Reflection Panel
3:15 – 5:30 pm
Closing Symposium:
Implant Esthetics 2018

QUESTIONS?
Contact the AO Executive Office
85 W. Algonquin Rd., Suite 550
Arlington Heights, IL 60005
Phone: (800) 656-7736 or (847) 439-1919
Fax: (847) 427-9656
E-mail: academy@osseo.org
Website: www.osseo.org
Pre-conference Sessions

Both sessions: Members $400 – Non-Members $500
Half-day session: Members $250 – Non-Members $300
Admission by ticket only • Attendance is limited • Pre-registration is required. On-site registrations will not be permitted.
(Participants must be registered for the Annual Meeting to enroll in the Pre-conference Sessions)

The Academy is offering two continuing education courses geared at assisting AO members in meeting the CE requirements for the AO Certificate in Implant Dentistry, however registration is open to all Annual Meeting attendees. Attendees may register for one or both sessions.

8:00 am – noon
Comprehensive Anatomy Review Related to Dental Implant Surgery
Jamie Lozada, DMD

The proper recognition of anatomical structures of the maxillofacial complex as it relates to dental implant surgery is a major component in the application of implant dentistry treatment overall. This presentation will elaborate in detail a comprehensive way to recognize maxillofacial anatomy from the initial imaging evaluation protocols to the clinical application of surgical implant dentistry treatments.

Upon completion of this presentation, participants should be able to: 1) recognize the most important anatomical landmarks in the evaluation of preoperative CBCT images; 2) identify the most important anatomical landmarks in the execution of surgical implant dentistry; and 3) identify potential clinical complications resulting from the failure of identify certain anatomical structures.

1:00 – 5:00 pm
Implant-related Complications: Causes, Prevention and Management
Charles Goodacre, DDS, MSD

While implants offer substantial patient benefits, complications can occur. This presentation will review the type of complications that have been reported and discuss causes as well as present strategies related to their prevention and how they can be managed should complications occur.

Upon completion of this presentation, participants should be able to: 1) identify the types of complications that have been reported; 2) explain the causes of each complication; and 3) describe methods of complication management.

Wednesday, February 28

10:00 – 10:30 am
Refreshment Break

3:00 – 3:30 pm
Refreshment Break
Hands-On Workshop Sessions

9:00 am – 4:00 pm

**Full-day Session**

**Members:** $500  
**Non-Members:** $600

*(Participants must be registered for the Annual Meeting to enroll in the Hands-On Workshop Sessions)*

Admission by ticket only • Attendance is limited • Pre-registration is required.

This full-day Hands-On Workshop Session will be conducted at Nobel Biocare headquarters in Yorba Linda, California. Transportation will be provided to and from the Nobel Biocare facility. Refreshment breaks and lunch will be provided.

Each session will provide registrants the opportunity to put their skills to practice using hands-on materials. Materials will vary for each session and are described below. Sessions are limited and pre-registration is required. **On-site registrations will not be permitted.** CE Credits will be provided by Nobel Biocare.

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**HOW-1**

9:00 am – noon

**The All-on-4® Treatment Concept for the Resorbed Maxilla- Highlight on Implant Design Evolution**

Paulo Malo, DMD

This session will discuss the objectives and evidence-based principles for surgical and prosthetic therapy when using the All-on-4® treatment concept to restore complete edentulism and failed dentition cases with a special focus on atrophic maxillae.

The most recent advancements of this technique, as well as new products development by introducing implant line-up extension (longer, shorter, and wider) allow to better address specific clinical situations; because of a wider variety/selection of implant sizes, further graftless solutions can be provided which could not be considered when using other implant systems.

The rehabilitation of the severely resorbed maxilla is a challenge when poor quantity of bone restrains the use of conventional implants. The use of Zygoma implants became a good alternative for the rehabilitation of patients with atrophic maxillae, offering obvious advantages for the patient when compared to other approaches - including bone grafting - of making it possible to restore speech, prosthetic retention, mastication and esthetics following an immediate function protocol.

The Extramaxilla technique has the potential to offer better prospects of clinical success to solve the challenges of atrophic maxillae cases; it can avoid the membrane and sinus approach, also allowing the possibility of greater length of zygomatic bone anchorage. This approach is also advantageous for the prosthetic rehabilitation component, since an improved prosthetic screw exit position can be achieved, thus allowing for a more favorable outcome in terms of biomechanics and in-home patient maintenance.

Upon completion of this presentation, participants should be able to: 1) list the principles, advantages and biomechanics of the All-on-Four® treatment concept; 2) select the best implant designs/length options for each case type; 3) discuss the indications for the use of the modified technique using Zygoma implants; 4) evaluate the pros and cons of the Extra-maxillary technique; and 5) explain the All-on-4® treatment concept evolution.

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12:00 pm – 4:00 pm

**Improving Clinical Outcomes with Digital Advances for Shorter Time to Teeth**

Peter Wöhrle, DMD, MMSc

The integrated workflow with digitally assisted treatment planning based on prosthetic outcomes and guided implant placement is here to stay. This treatment approach has been shown to deliver more efficient care with consistently better patient outcomes. Combining intraoral and CBCT data sets with diagnostic and treatment planning skills and properly executed guided surgery based on ideal prosthetics elevates the level of excellence. This treatment modality improves efficiency, safety, and overall patient experience. Emphasis will be placed on the latest developments for a digitally integrated treatment workflow for shorter time to teeth.

Upon completion of this presentation, participants should be able to: 1) recognize the advantages of CT assisted treatment planning; 2) describe the workflow from patient acquisition to delivery of final restoration; 3) explain the different areas throughout treatment where CT or CAD/CAM based tools can enhance outcome; and 4) discuss the various prosthetic techniques and materials used to restore patients with implant-supported restorations.

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Supported by a grant from

Nobel Biocare®
Hands-On Workshop Sessions

Wednesday, February 28

9:00 am – noon

Half-day Sessions

Members: $250 – Non-Members: $300 per session
(Participants must be registered for the Annual Meeting to enroll in the Hands-On Workshop Sessions)

Admission by ticket only • Attendance is limited • Pre-registration is required. On-site registrations will not be permitted.

Half-day Hands-On Workshop Sessions will be conducted in the South Building of the Los Angeles Convention Center.

Each session will provide registrants the opportunity to put their skills to practice using hands-on materials. Materials will vary for each session and are described below. Sessions are limited and pre-registration is required. On-site registrations will not be permitted.

**HOW-2**

Edentulous Treatment Strategies: One Size Fits None
Bryan Limmer, DMD, MS

The number of patients requiring edentulous treatment is continuing to grow both domestically and globally. This population includes patients with long-term edentulism, who have struggled with conventional removable prosthetics for many years, as well as patients with a terminal dentition, who will soon be edentulous. However, it also includes those edentulous patients who have been previously treated with implant therapy and now require revision, retreatment, or redirection.

The diversity within the edentulous population, along with the technical difficulty of the related procedures, often makes treatment of the edentulous patient a time consuming, expensive, and challenging endeavor for many clinicians. Yet, when well planned and well executed, it can also be one of the most rewarding and life-changing aspects of our clinical practice.

The purpose of this program is to help participants understand the psychosocial impact of edentulism, identify key factors in treatment success, treatment plan and implement effective clinical strategies, and create sound maintenance protocols for their edentulous or soon-to-be edentulous patients. Specifically, Dr. Limmer will review the procedure for immediate restoration of edentulous patients with screw-retained bridges or bar overdentures on a minimum of four implants. An emphasis will be placed on the relationship and communication between the surgeon, restorative doctor and laboratory technician. There will also be restorative hands-on session for participants to handle the parts and pieces discussed.

Upon completion of this presentation, participants should be able to: 1) recognize the relationship between implant biology and biomechanics in successful implant therapy; 2) list the benefits and limitations of various restorative strategies for completely edentulous patients, with a focus on full-arch fixed restorations utilizing angled implants and multi-base abutments; 3) describe the surgical and restorative aspects of edentulous therapy including immediate temporization; and 4) explain how advancements in technology are allowing treatment of a broader patient population and refining clinical workflows.

**HOW-3**

Management of Anterior Alveolar Defects: The Challenging Cases in the Aesthetic Zone
Isabella Rocchietta, DDS

Osseointegrated oral implants have been successfully reported for over 40 years. Prosthetically driven implant positioning requires a sufficient volume of bone in the desired position. However, sufficient bone volume is frequently lacking as a result of trauma or infectious diseases such as advanced periodontitis. Regardless the numerous surgical techniques described in the literature that aim at regenerating bone in a vertical and horizontal dimension, clinicians still struggle when faced with challenging vertical defects. The use of autogenous bone could be a viable option but clearly causes discomfort to the patient, increases the morbidity and undergoes a rapid degree of resorption.

Advances in digital imaging and 3D reconstructions offer dramatic improvement in diagnostics when faced with severe vertical jaw defects. The use of Guided Bone Regeneration associated to non-autogenous scaffolds constitutes the next generation of bone augmentation in all alveolar defects with or without implants.

Upon completion of this presentation, participants should be able to: 1) describe the biological principle of GBR in its clinical applicability; 2) discuss tips and tricks on how to perform Vertical GBR in severe defects; and 3) explain the use of growth factors in GBR.

**Supported by a grant from**

Geistlich Biomaterials

10:00 – 10:30 am

Refreshment Break
Hands-On Workshop Sessions

Wednesday, February 28

9:00 am – noon

Half-day Sessions

Members: $250 – Non-Members: $300 per session

Admission by ticket only • Attendance is limited • Pre-registration is required. On-site registrations will not be permitted.

Each session will provide registrants the opportunity to put their skills to practice using hands-on materials. Materials will vary for each session and are described below. Sessions are limited and pre-registration is required. On-site registrations will not be permitted.

HOW-4
Screw Retained, Site Specific Immediate Implants for Mid-Facial Tissue Preservation
Harold Baumgarten, DMD and Stephen Chu, DMD, MSD, CDT

Post-extraction socket immediate implant placement in the anterior maxilla remains one of implant dentistry’s most challenging procedures. Anatomic challenges often result in implants being placed and angulated in a compromised facial-biased position. This leads to cement-retained restorations or the use of angled abutments, both of which are sub-optimal for preserving mid-facial tissues.

This program will demonstrate why the use of an innovative implant design together with an appropriate screw-retained provisional and final restoration can help maximize bone and soft tissue volume.

A dual or co-axis implant design allows for Subcrestal Angle Correction™ leading to properly placed implants and the 100% use of screw-retained restorations. Predictable anterior esthetic outcomes in post-extraction socket immediate implants in the anterior maxilla are achievable and should be considered by all implant specialists.

Upon completion of this presentation, participants should be able to: 1) identify patient candidates for post-extraction socket immediate placement in the anterior zone; 2) incorporate tissue management guidelines for preserving the natural gingival contours post treatment; 3) discuss the predictable anterior aesthetics benefits of a unique site-specific implant combined with a screw-retained restoration; 4) explain the surgical techniques necessary to place an immediate implant placed in an anterior socket site; and 5) perform prosthetic provisional restoration techniques to capture subgingival tissue contours around anterior immediate implants.

Supported by a grant from

SOUTHERN IMPLANTS
Innovative Treatment Solutions

HOW-5
Digital Workflow: Options for Precise Diagnostics, Planning and Surgery
Options for Precise Diagnostics, Planning and Surgery
Adam Hamilton, BDSc, DCD, FRACDS
Practical Demonstration and Hands-on Training Using an Inter-Oral Scanner
Charlie Vincent

Treatment Planning: A Fully Integrated Workflow to Maximize Treatment Outcomes and Differentiate Your Practice
Ron Roche

The evolution of digital technology in implant dentistry is developing at a rapid pace. The mainstream availability of three-dimensional imaging with CBCT has been a turning point in providing safety and predictability in dento-alveolar surgery, as well as providing a platform for restorative input into the treatment planning process. However, is this technology absolutely necessary? And are we utilizing it to its full potential?

This lecture will explore the various technologies which can be integrated into the digital implant workflow with a clinical and evidenced-based approach to the advantages and disadvantages of each.

Upon completion of this presentation, participants should be able to: 1) outline an overview of the digital implant workflow; 2) discuss the potential of virtual implant treatment planning in every day implant treatment for the surgical and restorative implant practitioner; 3) explain the CAD/CAM guided surgery options and their indications; and 4) present new techniques with CAD/CAM guided surgeries for both immediate loading of single implants and full arch edentulous patients.

Supported by a grant from

straumann™
Simply doing more

10:00 – 10:30 am
Refreshment Break
Wednesday, February 28

Hands-On Workshop Sessions

9:00 am – noon

Half-day Sessions

Members: $250 – Non-Members: $300 per session

Admission by ticket only • Attendance is limited • Pre-registration is required. On-site registrations will not be permitted.

Half-day Hands-On Workshop Sessions will be conducted in the South Building of the Los Angeles Convention Center.

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HOW-6

Same-day Guided Immediate Placement and Provisionalization Using an Improved Digital Workflow

Brent Boyse, DDS

Patients with debilitated or missing dentition often seek rehabilitation to quickly regain masticatory function, aesthetics, and quality of life. Clinicians can now predictably offer treatment solutions for both single-tooth and immediate full-arch restorations to meet patient demands and expectations.

This program combines didactic and hands-on training to show participants a step-by-step, practical approach to deliver provisional prostheses on the day of implant placement with reliable accuracy; definitive prostheses can be fabricated and delivered in an appropriate timeframe.

Upon completion of this presentation, participants should be able to: 1) discuss new ways to manage the treatment planning and communication between the surgeon, referral and lab; 2) describe a comprehensive guided surgery system that is based on the aesthetic tooth position and facilitates the ability to provide a provisional restoration at the time of surgery; 3) list the advancements in the industry that have led to greater efficiencies and improved accuracy through digital workflows; and 4) explain the tips and tricks for taking a digital impression with the latest in intraoral scanning technology.

HOW-7

Dynamic Navigation, Optimizing Surgical Accuracy on the Spot: A Hands On Workshop

George Mandelaris DDS, MS

Dynamic surgical navigation technology is the only modality that allows for real-time verification and validation of positional accuracy in osteotomy site preparation as well as implant placement. This comprehensive hands-on-workshop will include clinical protocols, case presentations inclusive of edentulous protocols and cases. The Navident workflow will be demonstrated. Attendees will have the opportunity to practice treatment planning cases on navigation software, registration and calibration of instruments as well as drilling on models utilizing the Navident surgical navigation system.

Upon completion of this presentation, participants should be able to: 1) describe the advantages of dynamic surgical navigation; 2) explain how to use navigation technology for enhanced precision and accuracy in implant therapy; and 3) discuss the dynamic navigation workflow and how to optimize success.

Supported by a grant from

Navident

10:00 – 10:30 am

Refreshment Break
Half-day Hands-On Workshop Sessions will be conducted in the South Building of the Los Angeles Convention Center.

Each session will provide registrants the opportunity to put their skills to practice using hands-on materials. Materials will vary for each session and are described below. Sessions are limited and pre-registration is required. On-site registrations will not be permitted.

HOW-8

Edentulous Treatment Strategies: One Size Fits None (Repeated)

Bryan Limmer, DMD, MS

The number of patients requiring edentulous treatment is continuing to grow both domestically and globally. This population includes patients with long-term edentulism, who have struggled with conventional removable prosthetics for many years, as well as patients with a terminal dentition, who will soon be edentulous. However, it also includes those edentulous patients who have been previously treated with implant therapy and now require revision, retreatment, or redirection.

The diversity within the edentulous population, along with the technical difficulty of the related procedures, often makes treatment of the edentulous patient a time consuming, expensive, and challenging endeavor for many clinicians. Yet, when well-planned and well executed, it can also be one of the most rewarding and life-changing aspects of our clinical practice.

The purpose of this program is to help participants understand the psychosocial impact of edentulism, identify key factors in treatment success, treatment plan and implement effective clinical strategies, and create sound maintenance protocols for their edentulous or soon-to-be edentulous patients. Specifically, Dr. Limmer will review the procedure for immediate restoration of edentulous patients with screw-retained bridges or bar overdentures on a minimum of four implants. An emphasis will be placed on the relationship and communication between the surgeon, restorative doctor and laboratory technician. There will also be restorative hands-on session for participants to handle the parts and pieces discussed.

Upon completion of this presentation, participants should be able to: 1) recognize the relationship between implant biology and biomechanics in successful implant therapy; 2) list the benefits and limitations of various restorative strategies for completely edentulous patients, with a focus on full-arch fixed restorations utilizing angled implants and multi-base abutments; 3) describe the surgical and restorative aspects of edentulous therapy including immediate temporization; and 4) explain how advancements in technology are allowing treatment of a broader patient population and refining clinical workflows.

Supported by a grant from

Geistlich Biomaterials

2:00 – 2:30 pm

Refreshment Break

HOW-9

Management of Anterior Alveolar Defects: The Challenging Cases in the Aesthetic Zone (Repeated)

Isabella Rocchietta, DDS

Osseointegrated oral implants have been successfully reported for over 40 years. Prosthetically driven implant positioning requires a sufficient volume of bone in the desired position. However, sufficient bone volume is frequently lacking as a result of trauma or infectious diseases such as advanced periodontitis. Regardless the numerous surgical techniques described in the literature that aim at regenerating bone in a vertical and horizontal dimension, clinicians still struggle when faced with challenging vertical defects. The use of autogenous bone could be a viable option but clearly causes discomfort to the patient, increases the morbidity and undergoes a rapid degree of resorption.

Advances in digital imaging and 3D reconstructions offer dramatic improvement in diagnostics when faced with severe vertical jaw defects. The use of Guided Bone Regeneration associated to non autogenous scaffolds constitutes the next generation of bone augmentation in all alveolar defects with or without implants.

Upon completion of this presentation, participants should be able to: 1) describe the biological principle of GBR in its clinical applicability; 2) discuss tips and tricks on how to perform Vertical GBR in severe defects; and 3) explain the use of growth factors in GBR.

Supported by a grant from

Dentsply Sirona
Hands-On Workshop Sessions

Wednesday, February 28

1:00 – 4:00 pm

Half-day Sessions

Members: $250 – Non-Members: $300 per session

Admission by ticket only • Attendance is limited • Pre-registration is required. On-site registrations will not be permitted.

Half-day Hands-On Workshop Sessions will be conducted in the South Building of the Los Angeles Convention Center.

Each session will provide registrants the opportunity to put their skills to practice using hands-on materials. Materials will vary for each session and are described below. Sessions are limited and pre-registration is required. On-site registrations will not be permitted.

HOW-10
Immediate, Fixed Full Arch Rehabilitation with Subcrestal Angle Correction Without the Need for Cement or Screws
Robert del Castillo, DMD and Gary Morris, DDS

The most technically challenging and expensive prosthetic reconstruction for both the mandibular and maxillary arches is the full-arch, implant-supported fixed prosthesis. This treatment option is very demanding, complex and time consuming. In addition, the procedure is often unaffordable for the average patient.

Recent advances in technology and innovation are making this treatment option more common, simplified and a time saving solution. This workshop will teach an advanced treatment solution that incorporates implant designs that allow for complex anatomical conditions to be properly managed. Unique implant designs will help maximize the available bone, overcome anatomical structures and extend the A-P spread.

This workshop will also highlight the latest treatment option for fixed full arch, implant-supported restorations, a system that requires no screws and no cement, simplifying the restorative technique and minimizing chair time for the restorative team, with fewer complications and treatment delays.

Upon completion of this presentation, participants should be able to: 1) explain how to maximize available bone by utilizing site-specific implants for Subcrestal Angle Correction; 2) determine the quantity and position of implants for the best outcome; 3) identify the indications and limitations of a fixed attachment system; 4) describe the protocol and procedure for immediate load cases, conversion from removable to fixed restorations, and options for salvaging failed screw retained cases; 5) execute the surgical techniques necessary to place multiple, site specific implants in a full arch setting through a hands-on exercise; and 6) process a full arch, fixed prosthesis without cement or screws through a hands-on exercise.

Supported by a grant from

SOUTHERN IMPLANTS
Innovative Treatment Solutions

HOW-11
Digital Workflow: Options for Precise Diagnostics, Planning and Surgery (Repeated)

Options for Precise Diagnostics, Planning and Surgery
Adam Hamilton, BDSc, DCD, FRACDS

Treatment Planning: A Fully Integrated Workflow to Maximize Treatment Outcomes and Differentiate Your Practice
Ron Roche

The evolution of digital technology in implant dentistry is developing at a rapid pace. The mainstream availability of three-dimensional imaging with CBCT has been a turning point in providing safety and predictability in dento-alveolar surgery, as well as providing a platform for restorative input into the treatment planning process. However, is this technology absolutely necessary? And are we utilizing it to its full potential?

This lecture will explore the various technologies which can be integrated into the digital implant workflow with a clinical and evidenced-based approach to the advantages and disadvantages of each.

Upon completion of this presentation, participants should be able to: 1) outline an overview of the digital implant workflow; 2) discuss the potential of virtual implant treatment planning in every day implant treatment for the surgical and restorative implant practitioner; 3) explain the CAD/CAM guided surgery options and their indications; and 4) present new techniques with CAD/CAM guided surgeries for both immediate loading of single implants and full arch edentulous patients.

Supported by a grant from

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2:00 – 2:30 pm
Refreshment Break
Hands-On Workshop Sessions

Wednesday, February 28

1:00 – 4:00 pm

Half-day Sessions

Members: $250 – Non-Members: $300 per session

Admission by ticket only • Attendance is limited • Pre-registration is required. On-site registrations will not be permitted.

Half-day Hands-On Workshop Sessions will be conducted in the South Building of the Los Angeles Convention Center.

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HOW-12
Same-day Guided Immediate Placement and Provisionalization Using an Improved Digital Workflow (Repeated)

Brent Boyse, DDS

Patients with debilitated or missing dentition often seek rehabilitation to quickly regain masticatory function, aesthetics, and quality of life. Clinicians can now predictably offer treatment solutions for both single-tooth and immediate full-arch restorations to meet patient demands and expectations.

This program combines didactic and hands-on training to show participants a step-by-step, practical approach to deliver provisional prostheses on the day of implant placement with reliable accuracy; definitive prostheses can be fabricated and delivered in an appropriate timeframe.

Upon completion of this presentation, participants should be able to: 1) discuss new ways to manage the treatment planning and communication between the surgeon, referral and lab; 2) describe a comprehensive guided surgery system that is based on the aesthetic tooth position and facilitates the ability to provide a provisional restoration at the time of surgery; 3) list the advancements in the industry that have led to greater efficiencies and improved accuracy through digital workflows; and 4) explain the tips and tricks for taking a digital impression with the latest in intraoral scanning technology.

HOW-13
Dynamic Navigation, Optimizing Surgical Accuracy on the Spot: A Hands On Workshop (Repeated)

George Mandelaris DDS, MS

Dynamic surgical navigation technology is the only modality that allows for real-time verification and validation of positional accuracy in osteotomy site preparation as well as implant placement. This comprehensive hands-on-workshop will include clinical protocols, case presentations inclusive of edentulous protocols and cases. The Navident workflow will be demonstrated, attendees will have the opportunity to practice treatment planning cases on navigation software, registration and calibration of instruments as well as drilling on models utilizing the Navident surgical navigation system.

Upon completion of this presentation, participants should be able to: 1) describe the advantages of dynamic surgical navigation; 2) explain how to use navigation technology for enhanced precision and accuracy in implant therapy; and 3) discuss the dynamic navigation workflow and how to optimize success.

Supported by a grant from

Navident

2:00 – 2:30 pm

Refreshment Break
Corporate Forum sessions are open to all Annual Meeting attendees at no charge.

This collection of sessions offers a unique and significant opportunity to view the latest research and developments in the field of craniofacial implant technology. The Academy is offering 36 industry-hosted presentations featuring the latest implant technology. Registrants may attend any presentation with the option of changing rooms at any time.

The topics and presenters are selected by the participating companies without any input from the Academy of Osseointegration.

Please note: No CE Credit is provided for the Corporate Forum presentations.

Participating companies include:

- BioHorizons
- Dentsply Sirona
- Geistlich Biomaterials
- Keystone Dental
- MORITA
- Nobel Biocare
- Sanoasis Medical
- Southern Implants
- Straumann
- Thommen Medical
- Versah
- ZD Zest Dental Solutions
- Zimmer Biomet

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 Noon – 1:00 pm
Complimentary Lunch in the Exhibit Hall

 Noon – 7:00 pm
Exhibit Hours

 12:10 – 1:00 pm
E-Poster Presentations in the Exhibit Hall

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Thursday, March 1
Opening Symposium

1:00 – 1:45 pm
Welcome and Introductions
Michael Norton, BDS, FDS, RCS(Ed), AO President; and
Joseph Kan, DDS, MS, Annual Meeting Program Chair

1:45 – 5:30 pm
Opening Symposium

1:45 – 2:30 pm
Personalized Oral Health and the Future for Dental Implants ●
Harold Slavkin, DDS
Upon completion of this presentation, participants should be able to: 1) list the principles of precision dentistry and medicine; 2) recognize the role of genomics to determine risk; 3) explain the difference between Mendelian Inheritance and complex human diseases; and 4) anticipate precision health care.

2:30 – 3:15 pm
Contemporary Concepts of Socket Wound Healing ●
Stephen Chen, BDS, MDSc, PhD
Upon completion of this presentation, participants should be able to: 1) outline the physiologic processes of alveolar ridge resorption post-extraction; 2) describe the dimensional changes that may be anticipated after tooth extraction; and 3) compare and contrast the two approaches of ridge preservation and ridge reconstruction.

3:15 – 3:45 pm
Refreshment Break in the Exhibit Hall

3:45 – 3:50 pm
Young Clinician’s Committee Overview
Jose Garcia Montemayor, DDS

3:50 – 4:30 pm
Managing the Difficult/Complicated Maxillary Sinus: Tips and Tricks ●
Matteo Chiapasco, DDS, MD
Upon completion of this presentation, participants should be able to: 1) identify potential pre-operative obstacles/contraindications to sinus grafting procedures; 2) explain how to manage sinuses in the presence of large antral pseudocysts; 3) describe options to manage maxillary sinuses presenting sinusitis or sequelae of sinusitis; and 4) discuss how, why and when to cooperate with ENT surgeons in difficult cases.

4:30 – 5:30 pm
Implant Therapy in Course of Time: Genius Discoveries, Brilliant Ideas and Pioneering Innovations: What has Remained Today ●
Markus Hürzeler, DMD, PhD
Otto Zuhr, DDS
Upon completion of this presentation, participants should be able to: 1) give a short overview on current literature relating to successful treatment outcomes concerning implant therapy; 2) evaluate factors for successful implant therapy; 3) discuss clinical examples of modern techniques for peri-implant soft tissue management; and 4) integrate the findings into modern treatment concepts.

5:30 – 7:00 pm
Welcome Reception and E-Poster Presentations in the Exhibit Hall

7:00 – 9:00 pm
Young Clinicians’ Reception
Barcito Restaurant
Morning with the Masters

Friday, March 2

7:00 – 8:00 am

Members: $125 – Non-Members $150
Admission by ticket only • Attendance is limited
Please register online at www.osseo.org or on the enclosed registration forms.
All Morning with the Masters presentations run concurrently.

M-1
Peri-implantitis Update: 25 Years of Research and Clinical Management
Sascha Jovanovic, DDS, MS

Implant complications which demonstrate crestal bone loss and soft tissue inflammation are of great concern to the clinical practice and to the dental team. The term peri-implantitis has been used for this condition for over 25 years and diagnostic tools and clinical procedures have been introduced. Very few studies have shown good follow up after the diagnosis and treatment of peri-implantitis.

Three treatment options will be discussed in detail in this presentation 1) implant removal, 2) open flap surgery with osseous recontouring and optional implantoplasty, and 3) GBR bone regeneration with implant surface decontamination. Clinical steps and management and evidence based results will be discussed.

Upon completion of this presentation, participants should be able to: 1) explain the etiological factors of peri-implantitis; 2) evaluate the three main options to treat peri-implantitis; and 3) determine what the risk factors are of treating a peri-implantitis affected implant site.

M-2
The Composition of the Peri-implant Mucosa and its Impact on Peri-implant Disease Prevention
Markus Hürzeler, DMD, PhD
Otto Zuhr, DDS

In times of increasing demands for implants, long-term prevention of peri-implant infections become more and more the focus in dental surgery. Moreover, situations become often complicated as corrections of the soft tissues are often inevitable in order to compensate for former volumetric losses in the course of implant placement. Understanding biological interactions around implants is, in this context, fundamental for a contemporary soft tissue management, answering patients’ expectations and providing a stable and healthy situation long-term. This presentation will give an overview on biological factors influencing the long-term stability of peri-implant tissues and discuss opportunities and risks of different treatment approaches for peri-implant infections and the maintenance of a healthy situation. Important practical measures will be discussed in order to share new insights on clinical routines.

Upon completion of this presentation, participants should be able to: 1) provide a short overview on current literature relating to the composition of peri-implant soft tissues; 2) evaluate factors for a successful long-term prevention of peri-implantitis; 3) discuss clinical examples of treatment concepts for peri-implantitis; and 4) integrate the findings into contemporary treatment approaches.
Morning with the Masters
Friday, March 2

7:00 – 8:00 am
Members: $125 – Non-Members $150
Admission by ticket only • Attendance is limited
Please register online at www.osseo.org or on the enclosed registration forms.
All Morning with the Masters presentations run concurrently.

M-3
BMP-Enhanced Grafting for Challenging Alveolar Defects
Alan Herford, DDS, MD

This presentation will focus on grafting of challenging defects. The combination of growth factors will be discussed in order to improve healing.

Upon completion of this presentation, participants should be able to: 1) discuss various grafting options for alveolar defects; 2) describe the surgical technique for alveolar grafting; and 3) discuss the potential benefits of utilizing growth factors to enhance healing.

M-4
Digital Workflow: Full Arch Implant Reconstructions
David Guichet, DDS

Traditional methods of designing and creating full arch restorations are being increasingly replaced by digital processes. Software and hardware platforms for surgical guides and restoration design allow for local CAD/CAM production. Although these systems are becoming ubiquitous, their strengths and limitations must be understood. This presentation will take a critical look at the effectiveness of digital workflows used in full arch rehabilitation including: digital treatment planning using multiple datasets, linked digital workflows, guided implant surgery, prototypes and minimally veneered zirconia restorations. Results of recent studies on CAD/CAM abutment/restorative accuracy and esthetic restorative performance will be presented.

Upon completion of this presentation, participants should be able to: 1) compare digital treatment protocols in contrast to traditional workflows; 2) discuss the uses and current limitations of digital restorative design and CAD/CAM production; 3) recognize digital workflows that enhance restorative performance; and 4) explain the difference of open and closed systems and “best in breed.”

M-5
Understanding Osseointegration: The Host and Cell
Tomas Albrektsson, MD, PhD

The most common reason for marginal bone loss (MBL) is due to a complication in treatment. In addition, immunological reactions to implants may likewise cause MBL, that may or may not be worsened by bacteria.

Upon completion of this presentation, participants should be able to: 1) explain why implant threatening MBL is limited to 1-2%; 2) describe how osseointegration is an immunologically caused bone reaction; and 3) discuss how MBL may be worsened if poorly trained clinicians place undocumented implants.

M-6
Strategies for Managing Severe Implant Failures in the Aesthetic Zone
Bach Le, DDS, MD

The predictability and long-term success rate of dental implants is well documented in the literature. Nevertheless, complications and failures do occur requiring implant removal. Failing implants and the consequences of implant removal usually results in significant loss of hard and soft tissues and jeopardize efforts to achieve satisfactory function and esthetics. This lecture will discuss treatment modalities to deal with dental implant failure in the esthetic zone. When an implant fails, a customized treatment plan should be provided for each patient depending on the relevant needs. Patients should be informed regarding all possible treatment options and that achieving an ideal esthetic result in the compromised site is often elusive and in many cases, impossible.

Upon completion of this presentation, participants should be able to: 1) identify risk factors associated with early and late implant failures; 2) explain the difference between patient-related versus site-related etiology for implant failures; and 3) describe treatment options for managing and replacing failed implants in the esthetic zone.
M-7
Modular Bone Augmentation (MBA) for 3D Reconstruction of Compromised Bone
Homayoun Zadeh, DDS, PhD

Patients with atrophic alveolar bone have a variety of different presentations, including vertical versus horizontal atrophy, anatomic features such as flat vs sloped defect walls or concavities, various bone density (e.g. cortical vs cancellous bone). Each of these features can affect the efficacy of bone augmentation, either in a favorable or unfavorable manner. Therefore, the approach utilized needs to thoroughly analyze and classify site and patient characteristics in order to select an appropriate technique, material and protocol. Another consideration is the potential of complication for the selected protocol and a risk assessment to determine the likelihood of encountering negative outcomes based on patient features. Modular Bone Augmentation (MBA) refers to an approach, which is based on the convergence of several components required for successful bone regeneration. MBA will employ different components based on requirements of individual patient and site.

Upon completion of this presentation, participants should be able to: 1) describe patient and site features which have to be considered and classification of defect morphology; 2) list the components of MBA and selection criteria for the choice of technique, material and protocol; and 3) describe the steps of the most common bone augmentation techniques.

M-8
Current Topics and Techniques in Implant Overdentures and Implant Retained Partial Dentures in Clinical Practice
Robert Vogel, DDS

The use of dental implants has become the standard of care for partial and fully edentulous patients. In order to obtain predictable, consistent, stress-free results numerous clinical factors will be explored. This fast-moving clinical based presentation designed for private practice will provide a systematic approach to diagnosis and treatment of the fully and partially edentulous patient with removable prosthesis including overdentures and implant retained partial dentures. Scientifically based tips, tricks, techniques will be presented to assure long-term success with precision, productivity and profitability. Issues discussed will include ideal number of implants, attachment selection criteria and a foolproof formula for fee determination and patient presentation techniques all aimed at simplification and predictability of implant retained prosthesis.

Upon completion of this presentation, participants should be able to: 1) obtain stress-free, predictable results with removable implant prosthesis; 2) incorporate state-of-the-art techniques into private practice; 3) transition from removable to fixed prosthetics within their practice; and 4) recognize the patient benefits from ideal treatment.
Guided Tissue Shaping for Peri-implant Esthetics

Frank Higginbottom, DDS

The use of root form dental implants in the “Esthetic Zone” has attracted significant popularity in recent years. There are several approaches to the treatment of the esthetic sites. The implant may be placed in a non-submerged fashion or submerged in a two-stage format. With all of the advances in implant dentistry, the anterior restoration still seems to be the center of attention. The implant must appear as a natural tooth. After all is said and done the implant crown needs to be indistinguishable from the surrounding teeth. As technicians we tend to concentrate on parts and pieces and the final color of the crown. The true test of an esthetic restoration is however the appearance of the soft tissues that surround the implant. Soft tissues provide the framework for a beautiful restoration. The facial soft tissues and particularly the interproximal tissues are very important for esthetics. It will be shown that the provisional restoration is the most important means of shaping and developing the peri-implant soft tissues as well as providing a template for the final restoration. A true soft tissue model generated from the provisional also provides laboratory communication.

Upon completion of this presentation, participants should be able to: 1) provide evaluation of esthetic risk factors; 2) discuss pre-requisites for success; 3) explain the importance of provisional restorations to shape the transition zone; and 4) explain the importance of treatment planning.

Technical Solutions for Peri-implant Soft Tissue Recessions

Masana Suzuki, DDS

There are several counter-measures to those gingival recessions that take place at anterior peri-implant restoration sites. The causes of the defect will be discussed followed by the classification of the peri-implant gingival recessions together with relevant clinical cases and treatment methods for respective prognosis. Also, this treatment method will vary between single and multiple implant restorations. Dr. Suzuki will share his clinical cases and respective treatment methods divided into cases of both single and multiple implant restorations.

Upon completion of this presentation, participants should be able to: 1) describe the multiple causes of gingival recessions in peri-implants; 2) discuss the efficacy of applying CTG in peri-implant gingival recessions; and 3) explain the three major counter-measures of peri-implant gingival recessions and their respective usages.
Point–Counterpoint: Surgical Track

Friday, March 2

8:00 am – 5:00 pm

8:00 – 9:45 am
When to Save, When to Extract Teeth?
Moderator: Stephen Chen, BDS, MDSc, PhD
Presenters:
David Felton, DDS, MS
Charles Goodacre, DDS, MSD
Syngcuk Kim, DDS, PhD
Pamela McClain, DDS

Upon completion of this presentation, participants should be able to: 1) outline the physiologic processes of alveolar ridge resorption post-extraction; 2) describe the dimensional changes that may be anticipated after tooth extraction; 3) compare and contrast the two approaches of ridge preservation and ridge reconstruction; 4) list measurable outcomes for therapy in the edentulous patient restored with removable prostheses; 5) discuss the advantages and limitations in preserving periodontally compromised teeth; and 6) identify the factors that should be considered when determining whether to perform root canal treatment and/or periodontal treatment or extract a tooth and place an implant or fixed partial denture.

9:45 – 10:15 am
Refreshment Break in the Exhibit Hall

10:15 – 11:45 am
Primary Implant Stability: Indispensable or Insignificant?
Moderator: John Brunski, PhD
Presenters:
Marco Degidi, DDS, MD
Stephen Jacobs, BDS, FDS RCPS Glas, MJDF RCS(Eng)
Alan Melzter, DMD, MScD

Upon completion of this presentation, participants should be able to: 1) identify different methods of assessing implant primary stability; 2) discuss the practical differences between these methods; 3) assess the most appropriate loading protocols based on the assessment of implant primary stability; 4) discuss the rationale behind different methods of primary stability measurement; 5) select the appropriate treatment plan with different primary stability thresholds; and 6) navigate through the different dedicated hardware and software.

11:45 am – 1:15 pm
Complimentary Lunch and E-Poster Presentations in the Exhibit Hall

1:15 – 2:45 pm
The Edentulous Posterior Maxilla: Short Implants versus Sinus Graft
Moderator: Franck Renouard, DDS
Presenters:
Tara Aghaloo, DDS, MD, PhD
Jamie Lozada, DMD
Homayoun Zadeh, DDS, PhD

Upon completion of this presentation, participants should be able to: 1) identify different methods of assessing implant primary stability; 2) discuss the practical differences between these methods; 3) assess the most appropriate loading protocols based on the assessment of implant primary stability; 4) describe therapeutic options available for treatment of atrophic posterior maxilla; 5) discuss case selection criteria for choosing an appropriate therapeutic option; and 6) implement proper surgical and prosthetic protocol for implementing the selected treatment.

2:45 – 3:15 pm
Refreshment Break in the Exhibit Hall

3:15 – 5:00 pm
Laser Treatment for Peri-Implantitis: Myth or Reality?
Moderator: Paul Fugazzotto, DDS
Presenters:
Stuart Froum, DDS
Barry Levin, DMD
Stefan Renvert, DDS

Upon completion of this presentation, participants should be able to: 1) define the role of laser-assisted therapy in the treatment of peri-implantitis; 2) identify the differences between the numerous commercially-available lasers and possible benefits of each type; 3) demonstrate how adjunctive laser treatment can enhance regenerative, peri-implant surgery for the treatment of peri-implantitis; 4) discuss clinical treatment results following the use of laser therapy; 5) describe the change of the sub gingival microflora after laser therapy; and 6) explain laser debridement during surgical procedures.

8:00 – 11:45 am
Oral Clinical Research Presentations
Friday, March 2

Point–Counterpoint: Restorative Track

8:00 am – 5:00 pm

8:00 – 9:45 am
Zirconia Framework, Abutments and Restorations: Deal or Deal Breaker? Moderator: Clark Stanford, DDS, PhD
Presenters:
Markus Blatz, DMD, PhD
Carl Driscoll, DMD
Michael Moscovitch, DDS
Thomas Taylor, DDS, MSD

Upon completion of this presentation, participants should be able to: 1) identify risk factors to consider in choosing materials to use for the prostheses; 2) describe factors to consider in material selection; 3) anticipate what problems may arise with the use of zirconia components; 4) describe fundamental zirconia properties; 5) apply proper laboratory and clinical handling protocols; and 6) list indications and limitations of zirconia for implant-supported restorations.

9:45 – 10:15 am
Refreshment Break in the Exhibit Hall

10:15 – 11:45 am
All-on-4® in the Maxilla: Or Is it 4-for-All? Moderator: Edmond Bedrossian, DDS
Presenters:
German Gallucci, DMD, PhD
Paulo Malo, DMD

Upon completion of this presentation, participants should be able to: 1) discuss the evidence-based principles and advantages and disadvantages of the All-on-4® treatment concept; 2) assess different implant prosthetic designs; 3) discuss different loading protocols; 3) explain the biomechanics of the All-on-4® concept, focusing on its application to restore the maxilla; 4) provide clinical examples and scientific evidence about the cases where the All-on-4 technique may or may not be a valid option; and 5) evaluate long-term treatment outcomes.

11:45 am – 1:15 pm
Complimentary Lunch and E-Poster Presentations in the Exhibit Hall

1:15 – 4:55 pm
Oral Scientific Research Presentations

1:15 – 5:05 pm
Clinical Innovations Presentations

1:15 – 2:45 pm
Implant Occlusion and Occlusal Schemes: What We Know, What We Think We Know, What We Do Not Know Moderator: Charles Goodacre, DDS, MSD
Presenters:
Winston Chee, DDS
Charles Mastrovich, BSc, DDS, CAGS
Jonathan Wiens, DDS, MSD

Upon completion of this presentation, participants should be able to: 1) explain how occlusion can affect implant integration; 2) compare the difference between occlusion and biomechanics; 3) identify underlying conditions that may predispose occlusal overload; 4) describe the mechanical factors we can control when treatment planning a case; 5) explain how there are some factors we cannot control, and possibly not even anticipate; and 6) discuss how the absence of case specific data when planning, “over-engineering” may be a major mechanical advantage in providing long term stability.

2:45 – 3:15 pm
Refreshment Break in the Exhibit Hall

3:15 – 5:00 pm
Regenerated versus Replicated Tissue in the Esthetic Zone: A Surgical-Prosthetic Showdown Moderator: Craig Misch, DDS, MDS
Presenters:
Christian Coachman, DDS, CDT
Sascha Jovanovic, DDS, MS
Fouad Khoury, DMD, PhD
Aldo Leopardi, BDS, DDS, MS

Upon completion of this presentation, participants should be able to: 1) describe practical aspects and results of biological bone grafting techniques for a stable long term esthetic results; 2) explain the technique of block grafting (SBB technique and biological concept) 3D reconstructions; and 3) discuss soft tissue management for graft protection and soft tissue augmentation.

7:00 – 9:00 pm
President’s Reception at Microsoft Square
The Puzzle of Non-Odontogenic Pain – How to Account for Facial Pain When You Can’t See a Cause

Rich Hirschinger, DDS, MBA

In the past, if a doctor could not account for the source of a patient’s pain, treatment was still provided including root canals and/or extractions. If the pain did not resolve even after an extraction, it was assumed the patient was crazy or the pain was not related to the scope of dentistry. The patient was likely then referred to a physician or they just continued to live with their pain. During Dr. Hirschinger’s presentation, you will see a video testimonial of a patient who had multiple root canals when the source of her pain was not the teeth. You will also see a video testimonial of a patient with a 15-year history of “TMJ” treatment but the cause of her pain was not the joint, and how her pain resolved with the proper diagnosis and treatment. You will learn about patients that had other unnecessary dental treatment that did not relieve their pain since the pain was not odontogenic. You will learn how muscles can, and do, cause severe pain that can cause patients to be very debilitated since no doctor had properly diagnosed their pain as being caused by muscles. Attending this lecture will likely save you the grief and aggravation of treating those patients who complain about what appears to be “dental” pain but the source of the pain is not related to their teeth or their occlusion.

Upon completion of this presentation, participants should be able to: 1) recognize the muscle referral patterns that can mimic tooth pain; 2) localize pain and be more certain of a diagnosis before irreversible dental treatment is rendered; 3) explain why most TMJ pain is not related to the joint; and 4) describe the rationale behind trigger point injections and when lidocaine and botulinum toxin type A are and are not indicated.
All Annual Meeting Registrants are invited to attend the President’s Reception in Microsoft Square
7:00 – 9:00 pm, Friday

The President’s Reception is an exciting and fun-filled evening you will not want to miss that is offered complimentary to all registrants! See old friends and connect with new members and meeting participants at this time-honored event.

This acclaimed event promises to be one of the most festive social gatherings ever assembled by AO. It will be held in Microsoft Square within the L.A. LIVE area – the premier destination for live entertainment in vibrant, downtown Los Angeles.

Just steps away from our headquarters hotel, Microsoft Square is a vivid, outdoor, entertainment campus, much like a miniature Times Square. In addition to hors d’oeuvres and beverages, you can expect an Oscar themed evening with a red carpet, celebrity lookalikes, paparazzi, and a selfie station.

Keeping the spirit of the Beatles alive through their perfected theatrical and expert performances, “Britishmania” will be taking center stage with their exciting act. The night will be filled with many surprises as we convene our meeting during Oscars weekend.

Throughout its history, AO’s spectacular social events have made for memorable Annual Meetings -- and this is one extravaganza you will not want to miss!
Saturday, March 3
Saturday Morning Session

8:00 am – noon
Moderator:
Joan Otomo-Corgel, DDS, MPH

8:00 – 8:45 am
Management of Complications in Guided Bone Regeneration
Isabella Rocchietta, DDS
Upon completion of this presentation, participants should be able to: 1) discuss the biological principles of Guided Bone Regeneration in relation to its clinical applicability; 2) assess the complications through real clinical cases; and 3) explain how to avoid the complications.

8:45 – 9:15 am
Novel Approach of GBR for Implant Placement: Open Barrier Membrane Technique Utilizing Signaling Molecules and Allografts
Eiji Funakoshi, DDS, MSD
Upon completion of this presentation, participants should be able to: 1) explain the biology of wound healing and the role of cells, scaffolds and signaling molecules in determining clinical outcomes; 2) discuss current options on graft selection for ridge augmentation; and 3) discuss how this technique can be implemented in your practice.

9:15 – 9:45 am
Solutions to Implant Soft Tissue Deficiencies in the Esthetic Zone
Paul Pao-Ying Lin, DMD
Upon completion of this presentation, participants should be able to: 1) determine the criteria for rescued and removed implants; 2) classify the esthetic implant complications according to the degree of difficulty; 3) establish a simple and straightforward treatment protocol for management of each classification; and 4) distinguish the needs for soft and/or hard tissue management and the best surgical approach for peri-implant deficient sites.

8:00 am – 4:00 pm
Laboratory Technician Program

9:45 – 10:15 am
Refreshment Break in the Exhibit Hall

10:15 – 10:50 am
Zygoma Implants – Free Hand or Guided?
James Chow, MBBS, MDS
Upon completion of this presentation, participants should be able to: 1) explain the importance of optimal positioning of the zygomatic implants; 2) discuss the digital workflow of guided surgery for the zygomatic implants; and 3) list the advantages and limitations of the guided surgery for the zygomatic implants.

10:50 – 11:25 am
Psychological Stress: The Impact on Wound Healing
Mehrdad Favagehi, DDS, MS
Upon completion of this presentation, participants should be able to: 1) identify psychological stress as a risk factor for delayed wound healing and poor surgical outcomes; 2) explain the psychoneuroimmunology and the scientific evidence linking stress and wound healing outcomes; and 3) describe simple techniques that can be used in a dental clinical setting to measure (quantify) stress levels and modulate its effects on surgical outcomes.

11:25 am – noon
Socket Shield for Implant Esthetics: Experimental or Clinical Reality?
Phillip Roe, DDS, MS
Upon completion of this presentation, participants should be able to: 1) explain indications and contraindications for socket shield technique; 2) describe surgical approaches for socket shield technique; and 3) identify complications related to socket shield technique.

8:00 am – 4:00 pm
TEAM Program
Saturday, March 3
Lunch with the Masters

Noon – 1:30 pm
Members: $150 – Non-Members $175
Admission by ticket only • Attendance is limited
Please register online at www.osseo.org or on the enclosed registration forms.
All Lunch with the Masters presentations run concurrently.

LM-1
All-on-4*: Update of Techniques, Concepts and Results
Paulo Malo, DMD
This session will review the principles and present the updates on the All-on-4* Treatment Concept, to restore the fully edentulous and failed dentition patient, elaborating on its most recent technical advancements and new products released to solve extremely complex cases (maxilla and mandible). Clinical examples will be showed to illustrate the wide evidence-based application of the technical and scientific novelties the All-on-4* Protocol has gone through.

Upon completion of this presentation, participants should be able to: 1) list the principles of the All-on-4* technique; 2) discuss the evolution this treatment concept as gone through; and 3) describe the new products developed to improve the technique and overcome extremely complex cases.

LM-2
Guided Bone Regeneration in the Anterior Maxillae, Tips and Tricks
Isabella Rocchietta, DDS
Vertical Guided Bone Regeneration still constitutes a challenging approach to resolve severe alveolar defects. A strict surgical protocol is mandatory to achieve a functional and aesthetic result. The anterior maxillae requires a detailed hard and soft tissue reconstruction to allow for a harmonious natural looking final implant supported restoration. The lecture will provide a classification of hard tissue defects with the corresponding surgical GBR approach explained in detail.

Upon completion of this presentation, participants should be able to: 1) identify the ideal clinical scenario to perform Guided Bone Regeneration (GBR) successfully; 2) list the strict step-by-step surgical procedure for vertical bone augmentation; and 3) discuss how to avoid complications in vertical GBR.

LM-3
Current Techniques and Concepts in Treating Natural Teeth Gingival Defects
Giovanni Zucchelli, DDS, PhD
New knowledge in soft tissue surgical management lets us achieve esthetic coverage in gingival recession with minimally invasive connective tissue grafts. The advantages of the connective tissue graft derived from the disepithelization free gingival graft will be presented as well as the treatment of single and multiple gingival recessions in all areas of the patient’s mouth.

Upon completion of this presentation, participants should be able to: 1) list step-by-step surgical techniques; 2) describe the difference between the treatment of gingival recession in the different areas of the patient mouth; and 3) discuss long term results.

LM-4
Is Smile Design Really Under Control?
Christian Coachman, DDS, CDT
This session will highlights the strategies to avoid the “Denture Look” with Implant Prosthesis. How to integrate Facial Analysis into Smile Design using 3D technology, to evaluate the soft tissue defect and generate a facially driven treatment plan.

Upon completion of this presentation, participants should be able to: 1) simplify and utilize the workflow with technology; 2) provide detailed step by step when using digital resources; and 3) explain the benefits of using digital impressions for full implant arches.
Platform Switching: Fact or Myth?

Stephen Chu, DMD, MSD, CDT

The concept and theory of platform switching in implant design, specifically the implant-abutment connection, has been established over a decade ago. However, there remains discord and a lack of consensus on the clinical benefits of this design in reference to marginal bone stability. Therefore, a thorough review, interpretation and discussion of the literature with clinical examples will be presented as we discuss the facts and myths associated with one abutment, one time versus multiple abutment disconnection.

Upon completion of this presentation, participants should be able to: 1) decide where and when platform switching has a benefit in marginal bone stability; 2) discuss the threshold of the amount of platform switching which is ideal to maintain crestal bone; and 3) discuss whether platform switching has a positive or negative effect on abutment disconnection.
Participants:
Tomas Albrektsson, MD, PhD; David Cochran, DDS, MS, PhD, MMSc; Ole Jensen, DDS, MS;
Stephen Parel, DDS; and Dennis Tarnow, DDS

Upon completion of this presentation, participants should be able to: 1) discuss the current hot topics in implant dentistry; 2) explain the differences of opinion with regard to those hot topic areas; and 3) decide how to enhance their own decision making process in regards to implant treatment.

Closing Symposium: Implant Esthetics 2018

3:15 – 5:30 pm
Moderator: Joseph Kan, DDS, MS

3:15 – 4:00 pm
Prosthetic Contouring: What Works, What Doesn’t Work? 🔍
Stephen Chu, DMD, MSD, CDT
Upon completion of this presentation, participants should be able to: 1) indicate the most important factor that defines subgingival emergence profile of a restoration; 2) discuss the recommended submergence profile around the implant-abutment connection; and 3) explain the differences in contour between implants placed in healed ridges versus extraction sockets.

4:00 – 4:45 pm
Giovanni Zucchelli, DDS, PhD
Upon completion of this presentation, participants should be able to: 1) explain biological concepts behind soft tissue grafting procedure around implants; 2) recite step by step surgical techniques; and 3) describe long term results.

4:45 – 5:30 pm
GBR: What Works, What Doesn’t Work? 🔍
István Urban, MD, DMD, PhD
Upon completion of this presentation, participants should be able to: 1) explain the biology of the incorporation of the composite bone graft; 2) discuss the surgical principles of ridge augmentation surgery; 3) list the types of anterior maxillary vertical defects; 4) identify the surgical principles of the reconstruction of the vestibule and keratinized tissue after ridge augmentation; and 5) describe how to reserve the regenerated bone and recreated papillary architecture.

5:30 pm
Meeting Adjourns
8:00 – 8:10 am
Welcome and Introductions
Ricardo Mitrani, DDS, MSD, Moderator

8:10 – 9:00 am
Leading a Dental Practice in a Competitive World
Ricardo Mitrani, DDS, MSD

One of the toughest challenges when leading an independent contemporary practice is having the ability to build the right team and to recognize what are the attributes that each one of the team members should have in order to consolidate the right team.

Upon completion of this presentation, participants should be able to: 1) discuss the appropriate position and responsibilities of the dental professional within an independent practice; 2) describe the best techniques to put together the ideal team; and 3) explain how to improve communication among all team players.

9:00 – 10:00 am
Recommendation Marketing and Social Media 2018 – Get those Reviews
Robert Ritter, DMD

This presentation is for dentists and team members. What makes this lecture different is that we cover areas that are not well understood by dentists when it comes to online presence or social media. After speaking to many study clubs, many dentists are clinically adept and not quite sure how to market or promote their practice. The traditional methods of marketing are dying. From print to radio, and TV, these media are less important. So how does one get on the first page of Google? I cover every step and help clarify the misconceptions of social media. Recommendations coming from existing patients that have been seen and treated by yourself are the most important types of referrals. Years ago this was called word of mouth. It’s the same, only leveraging the social media I-platforms to spread the information. I call this Recommendation Marketing because, truly, that’s what it is in a different form.

Google reviews, Yelp reviews, Facebook Live, blogs and true search engine optimization will be covered in this fast-paced, fun presentation.

Upon completion of this presentation, participants should be able to: 1) describe recommendation marketing and its benefits; 2) explain how to use Google and Yelp reviews to your advantage; 3) discuss what apps are available to assist in communication within your practice; 4) utilize live patient testimonials to market the practice; and 5) list tips to expand your practice’s Search Engine Optimization (SEO).

10:00 – 10:30 am
Refreshment Break

Registration for TEAM Program Only: Members $125 – Non-Members $150
No Charge for Annual Meeting Registrants • Please register online at www.osseo.org or on the enclosed registration forms.
Saturday, March 3

TEAM Program

8:00 am – 4:00 pm

The TEAM Program is for all members of the dental team, including Dentists, Implant Treatment Coordinators, Hygienists and Assistants

Registration for TEAM Program Only: Members $125 – Non-Members $150

No Charge for Annual Meeting Registrants • Please register online at www.osseo.org or on the enclosed registration forms.

10:30 am – noon

MASTER-ing Your Sixth Sense

Christopher Ramsey, DMD

During this session Dr. Ramsey will cover the elements of his M.A.S.T.E.R program. This trademarked concept will highlight specific elements of both verbal and non-verbal communication. The M.A.S.T.E.R program encompasses the concepts of Human Decision Making, Body Language, and the Art of Persuasion. With the understanding of these elements, the doctor and team members will begin to see what many others do not in everyday communication. This approach ultimately leads to increased case acceptance and improved interpersonal relationships.

Upon completion of this presentation, participants should be able to: 1) utilize the necessary tools to “see” what others do not in everyday communication—“The Sixth Sense”; 2) discuss the use of “Body Language” cues which allow for better communication; 3) initiate both conscious and sub-conscious decision-making and how that effects treatment acceptance; and 4) explain the the “Art of Persuasion” and its effect on decision making.

Noon – 1:30 pm

Complimentary Lunch

1:30 – 2:30 pm

Treatment of Peri-implant Disease Caused by Iatrogenic Factors

Lisa Maruhashi, RDH

Peri-implantitis is one of the most popular topics in the dental world. Peri-implantitis can be avoided through plaque control with a professional cleaning and by patient maintenance and brushing. Part of the patient’s implant treatment should be to complete the periodontal follow-up as well as instruction of plaque control to patients so they understand how to clean around peri-implant tissue. However, sometimes we face peri-implantitis cases in which plaque control instructions are not effective. This may compromise the trust between patients and dentists and oral hygienists, and result in the loss of the patient, without treatment of peri-implantitis. Peri-implantitis can be difficult to treat in the dental office especially when peri-implantitis is caused by iatrogenic factors. It is important to detect the iatrogenic factors before treatment of peri-implantitis. This presentation will discuss how the oral hygienist can work with the patient in providing the simple plaque control instructions with peri-implantitis caused by iatrogenic factors.

Upon completion of this presentation, participants should be able to: 1) provide solutions to the patient of how to avoid peri-implantitis cause by iatrogenic problems; 2) cure ambient mucositis of the implant; and 3) demonstrate how far a dental hygienist can control peri-implantitis.

2:30 – 3:30 pm

Risk Factor Assessment and Mitigation in Implant Treatment

Diane Daubert, RDH, MS, PhD

This course will provide evidence based information on peri-implant disease with emphasis on a team/interdisciplinary approach to treatment. The program will present research findings on risk factors for peri-implant disease and preventive measures to incorporate into the implant treatment plan prior to implant placement. In addition, the program will review diagnosis and prevalence of peri-implant disease and innovative non-surgical therapies for disease prevention and treatment.

Upon completion of this presentation, participants should be able to: 1) explain to a patient the risk factors for development of peri-implant disease; 2) evaluate patients with implants and formulate approaches for prevention of peri-implant disease; 3) identify implants in need of non-surgical treatment and differential those in need of surgical treatment; and 4) apply basic science findings to clinical decision-making.

3:30 – 4:00 pm

Questions and Answers

8:00 am – 4:00 pm

Laboratory Technician Program
Laboratory Technician Program

8:00 – 4:00 pm
Registration for Laboratory Technician Program Only: Members $125 – Non-Members $150
(includes access to Exhibit Hall on Saturday)
No Charge for Annual Meeting Registrants
Please register online at www.osseo.org or on the enclosed registration forms.

8:00 – 8:10 am
Welcome and Introductions
Keith Phillips, DMD, SMD, CDT, Moderator

8:10 – 9:00 am
New Interdisciplinary Perspectives with All-ceramic Restorations
Anabell Bologna, DDS
The optimal results in the areas of aesthetic compromise, are influenced by clinical and technical aspects, such as bone level and thickness, soft tissue control, implant position, selection of the restorative material, and appearance of the final restoration.

Beyond the type of restoration, either a single crown or a dentogingival prosthesis, the challenge is to mimic the natural esthetics and harmony of shape and color.

The interdisciplinary team approach is the key to success in order to meet the esthetic expectations of patients; accompanied by a scientific support when it comes to material selection, and a combination of science and art when it comes to reproducing nature.

We will describe step by step the laboratory procedures, and how technology, new generation restorative materials, and artistic skills are combined and managed to accurately obtain the esthetic requirements of each patient.

Upon completion of this presentation, participants should be able to: 1) explain how 3-D printing can benefit the practice or lab; 2) explain differences between different 3-D printers; 3) identify areas within the practice where we can utilize 3-D printing; and 4) determine which printer is best for your needs.

10:00 – 10:30 am
Refreshment Break

10:30 am – noon
Unique Digital Workflows: From Surgery to Restorative
Lee Culp, CDT
As dentistry evolves into the digital world, the successful incorporation of computerization and new technology will continue to provide more efficient methods of communication and fabrication while at the same time retaining the individual creativity and artistry of the skilled dentist and dental technician, while utilizing new technology to continue to enhance the close cooperation and working relationship of the dentist/technician team. This exciting multimedia presentation will offer participants a unique insight into the digital design from surgical planning to using the printed diagnostic wax-up and milled provisional PMMA restorations, and their digital replicas to guide us in the creation of cad-cam restorations, for implant supported prosthetics, will be presented.

Upon completion of this presentation, participants should be able to: 1) explain how to adapt conventional techniques to digital technology; 2) explore new ways to achieve optimal Dentist/Surgeon/Technician teamwork, using digital communication; and 3) describe new restorative options, available with new technology and materials.
Saturday, March 3

Laboratory Technician Program

8:00 am – 4:00 pm

Registration for Laboratory Technician Program Only: Members $125 – Non-Members $150
(includes access to Exhibit Hall on Saturday)
No Charge for Annual Meeting Registrants

Please register online at www.osseo.org or on the enclosed registration forms.

1:30 – 2:30 pm

The Digital Patient: 3-D Virtual Design and Planning in Implant Dentistry
Michael Bergler, CDT, MDT

Numerous CAD/CAM systems have been introduced to the market and offer a significantly more reliable and precise fabrication process as compared to traditional fabrication techniques. Both clinical and laboratory protocols and workflows are affected and need to be adapted to the digital world. Different production technologies like milling, 3-D printing or laser sintering are already established for a variety of dental applications. It seems much more challenging to handle and implement new features for the 3-D virtual design and planning in the advanced digital workflow. Specifically affected are full-mouth implant-supported restorations by new software features, which dramatically alter the traditional approach in the dental laboratory. However, to take full advantage of the virtual 3-D design and planning, it is crucial for the laboratory technician and the dentist to establish new ways of communication in order to manage and achieve optimal outcomes in a completely digital workflow. This presentation will provide an update on new virtual design options in the dental laboratory while recognizing the importance of a team approach between dental technician and clinician in the digital age. Different approaches of the digital workflow will be presented and illustrated on selected tooth- and implant-supported cases.

Upon completion of this presentation, participants should be able to: 1) differentiate digital treatment protocols and traditional workflows; 2) describe different software features for the complete digital workflow; and 3) choose and implement the latest materials based on the design of a restoration.

2:30 – 4:00 pm

Cubic Containing Zirconia: Laboratory and Clinical Consideration
Edward McLaren, DDS, MDC

Recently, versions of Zirconia have been released that are much more translucent than the original Zirconia, with claims of esthetic potential to be use in mono-lithic form for incisors, and are also claimed to be as translucent as the translucent forms of well accepted lithium disilicates. This new zirconia material has an altered structure and increased amount of “dopant” that increases the amount of the cubic form of crystal. This presentation will explore some of the available products of this newer translucent Zirconia. We will compare it to older versions of zirconia, compare physical properties of different zirconia’s, discuss potential long term clinical situations related to physical properties, compare translucency differences from old and new materials, compare translucency to translucent forms of Lithium Disilicates, and present an anterior monolithic and posterior molar case presentation with the newer translucent zirconia both gradient and painted versions for audience evaluation as to esthetic value. This presentation will cover some of the customization techniques the author uses with this new material.

Upon completion of this presentation, participants should be able to: 1) describe how surface treatments affect strength; 2) discuss how to customize internal colorize Cubic Zirconia; 3) explain how to custom texturize monolithic Cubic Zirconia; and 4) describe how to custom surface color monolithic Zirconia.

8:00 am – 4:00 pm

TEAM Program
View the latest technological advances in the field of implant dentistry in the Exhibit Hall. Don’t miss the latest products and services showcased by more than 100 exhibiting companies on display throughout the meeting. Be sure to visit the exhibits and see the newest products to enhance your practice and improve patient care. Following is a list of exhibitors registered as of November 10, 2017.

• 3D Diagnostix (3DDX)
• 3Shape
• A. Titan Instruments
• ACE Surgical Supply Company
• ACTEON North America
• AD Surgical
• Adin Dental Solutions USA
• Alliance Global Technology
• Alpine Pharmaceuticals
• Anatomage
• Argen Corporation
• Aseptico
• Augma Biomaterials USA, Inc.
• Benco Dental
• Bicon Dental Implants
• Bien-Air Medical Technologies
• BioHorizons
• Birdeye
• Blue Sky Bio
• Boca Dental Supply
• Boyd Industries, Inc.
• Brasseler USA
• BTI of North America
• Buckeye Medical Technologies, LLC
• Cagenix, Inc.
• Carestream Dental
• CellRight Technologies
• CeraRoot
• CinZara, LLC
• ClaroNav
• ClearChoice Dental Implant Centers
• Collagen Matrix
• Consult-PRO/DHC Marketing Inc.
• Cool Jaw By Medico International
• Dental Arts Laboratories, Inc.
• Dentatus USA, Ltd
• Dentium USA
• Dentsply Sirona
• Designs for Vision, Inc.
• DIO Implant
• Doctor.com
• DoWell Dental Products, Inc.
• Dr. B. Dental Solutions
• DSN Software, Inc.
• Esthetic Implant Solutions
• Firm Media
• Garfield Refining Company
• Geistlich Biomaterials
• Glidewell Dental
• H & H Company
• Harris Bay, LLC
• HDX Will North America
• Hi Tec Implants/ Dental Implant Technologies
• Hiossen, Inc.
• Hu-Friedy Manufacturing Company
• Hybridge
• IDEA - Interdisciplinary Dental Education Academy
• Imcosir, Inc.
• Impladent, Ltd.
• Implant Direct International
• Institute for Comprehensive Implant Therapy & Esthetics
• Intra-Lock International, Inc.
• Invisalign iTero
• ITI International Team for Implantology
• J. Morita USA, Inc.
• Karl Schumacher Dental Instruments Co, Inc.
• KAT Implants
• Keystone Dental
• KLS-Martin
• Lending Club Patient Solutions
• Lighthouse
• Live Vue Technologies, Inc.
• LoupeCam
• Maxxues Dental
• Meisinger USA
• MicroDental Laboratories
• Millennium Dental Technologies, Inc.
• MIS Implants Technologies, Inc.
• MoraVision, Inc.
• National Dentex/nSequence
• Neobiotech USA
• Neocis, Inc.
• Neodent/Instradent
• Neoss
• Nobel Biocare
• Nouvag AG
• OMSVision
• OrataPharma, Inc.
• Orascoptic
• Osada, Inc.
• Osstell, Inc.
• Osteogenics Biomedical
• Pacira Pharmaceuticals
• Panthera Dental
• PBHS, Inc.
• PhotoMed International
• Piezosurgery Incorporated
• Planmeca USA, Inc.
• Power Dental USA, Inc.
• PREAT Corporation
• Quintessence Publishing Co, Inc.
• RGP Dental
• Rocky Mountain Tissue Bank
• Rose Micro Solutions
• Ruetschi Technology AG
• Salvin Dental Specialties, Inc.
• SGS Swiss Implant Systems, USA
• Shinwon Dental Co., Ltd
• Snap On Optics
• Snosis Medical, LLC
• Southern Implants North America
• Sowingo
• Spectrum Lasers
• Straumann
• Suremark
• Surgident Co., Ltd.
• SurgiTel
• Sweden & Martina, Inc
• TePe Oral Health Care, Inc
• Thommen Medical
• TurAbutment, Inc.
• Ultralight Optics Inc.
• Unicare Biomedical, Inc.
• Vatech America
• Versah, LLC
• W&H Impex, Inc.
• Western Society of Periodontology
• X-Nav Technologies, LLC
• XEMAX Surgical Products
• XPDent Corp
• Z-Systems USA
• Zest Dental Solutions
• Zimmer Biomet
Tara Aghaloo, DDS, MD, PhD
Los Angeles, CA

Tomas Albrektsson, MD, PhD
Goteborg, Sweden

Harold Baumgarten, DMD
Philadelphia, PA

Edmond Bedrossian, DDS
San Francisco, PA

Michael Bergler, CDT, MDT
Philadelphia, PA

Markus Blatz, DMD, PhD
Philadelphia, PA

Anabell Bologna, DDS
Caracas, Venezuela

Brent Boyse, DDS
Mesa, AZ

John Brunski, PhD
Scottsdale, AZ

Winston Chee, DDS
Glendale, CA

Stephen Chen, BDS, MDSc, PhD
Melbourne, Australia

Matteo Chiapasco, DDS, MD
Milan, Italy

James Chow, MBBS, MDS
Hong Kong, China

Stephen Chu, DMD, MSD, CDT
New York, NY

Christian Coachman, DDS, CDT
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David Cochran, DDS, MS, PhD, MMSc
San Antonio, TX

Lee Culp, CDT
Sarasota, FL

Diane Daubert, RDH, MS, PhD
Seattle, WA

Marco Degidi, DDS, MD
Bologna, Italy

Robert del Castillo, DMD
Miami Lakes, FL

Carl Driscoll, DMD
Baltimore, MD

Mehrdad Favagehi, DDS, MS
Falls Church, VA

David Felton, DDS, MS
Jackson, MS

Stuart Froum, DDS
New York, NY

Paul Fugazzotto, DDS
Milton, MA

Eiji Funakoshi, DDS, MSD
Fukuoka, Japan

German Gallucci, DMD, PhD
Boston, MA

Charles Goodacre, DDS, MSD
Redlands, CA

David Guichet, DDS
Orange, CA

Adam Hamilton, BDSc, DCD, FRACDS
Boston, MA

Alan Herford, DDS, MD
Loma Linda, CA

Frank Higginbottom, DDS
Dallas, TX

Rich Hirschinger, DDS, MBA
Beverly Hills, CA

Markus Hürzeler, DMD, PhD
Munchen, Germany

Stephen Jacobs, BDS, FDS RCPS Glas, MJDF
Glasgow, Scotland

Ole Jensen, DDS, MS
Greenwood Village, CO

Sascha Jovanovic, DDS, MS
Los Angeles, CA

Fouad Khoury, DMD, PhD
Olsberg, Germany

Syngcuk Kim, DDS, PhD
Philadelphia, PA

Bach Le, DDS, MD
Whittier, CA

Aldo Leopardi, BDS, DDS, MS
Greenwood Village, CO

Barry Levin, DMD
Jenkintown, PA

Bryan Limmer, DMD, MS
Wheat Ridge, CO

Paul Pao-Ying Lin, DMD
Taipei, Taiwan

Jamie Lozada, DMD
Loma Linda, CA

Paulo Malo, DMD
Lisboa, Portugal

George Mandelaris, DDS, MS
Oakbrook Terrace, IL

Lisa Maruhashi, RDH
Osaka, Japan

Charles Mastrovich, BSc, DDS, CAGS
Escondido, CA

Pamela McClain, DDS
Aurora, CO

Edward McLaren, DDS, MDC
Birmingham, AL

Alan Meltzer, DMD, MScD
Voorhees, NJ

Craig Misch, DDS, MDS
Sarasota, FL

Ricardo Mitrani, DDS, MSD
Mexico City, Mexico

Gary Morris, DDS
Buffalo Grove, IL

Michael Moscovitch, DDS
Montreal, Canada

Stephen Parel, DDS
Dallas, TX

Christopher Ramsey, DMD
Jupiter, FL

Franck Renouard, DDS
Paris, France

Stefan Renvert, DDS
Kristianstad, Sweden

Robert Ritter, DMD
Jupiter, FL

Isabella Rocchietta, DDS
London, United Kingdom

Ron Roche
Montreal, Canada

Phillip Roe, DDS, MS
Edmonds, WA

Harold Slavkin, DDS
Los Angeles, CA

Clark Stanford, DDS, PhD
Chicago, IL

Masana Suzuki, DDS
Katsushika-ku, Tokyo

Marko Tadros, DMD
Augusta, GA

Dennis Tarnow, DDS
New York, NY

Thomas Taylor, DDS, MSD
West Hartford, CT

István Urban, MD, DMD, PhD
Budapest, Hungary

Charlie Vincent
Andover, MA

Robert Vogel, DDS
Palm Beach Gardens, FL

Jonathan Wiens, DDS, MSD
West Bloomfield, MI

Peter Wöhrle, DMD, MMSc
Newport Beach, CA

Homayoun Zadeh, DDS, PhD
Woodland Hills, CA

Giovanni Zucchelli, DDS, PhD
Bologna, Italy

Otto Zuhr, DDS
Freising, Germany
Hotel Registration Information

**Academy of Osseointegration Annual Meeting**
February 28 – March 3, 2018 • Los Angeles, CA

**Internet:** For best availability, make your reservation online at www.osseo.org.

**Phone:** If making reservation by phone, call the AO official housing provider, onPeak at (855) 904-2787. Attendees outside the U.S. call (312) 527-7300.

Hotel reservations / rate availability are not guaranteed after the room block is full or after January 29, 2018.

**DEADLINE FOR HOTEL RESERVATIONS IS MONDAY, JANUARY 29, 2018.**

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**JW Marriott Los Angeles L.A. LIVE**
900 W. Olympic Blvd
Los Angeles, CA 90015
$315 Single – Standard King
$325 Double – Standard King
$325 Single / Double – Double / Double

**InterContinental Los Angeles Downtown**
900 Wilshire Blvd
Los Angeles, CA
$299 Single / Double

**Courtyard by Marriott Los Angeles L.A. LIVE**
901 W. Olympic Blvd
Los Angeles, CA 90015
$280 Single – Deluxe King
$300 Double – Deluxe King
$300 Single / Double – Queen / Queen

**Residence Inn by Marriott Los Angeles L.A. LIVE**
901 W. Olympic Blvd
Los Angeles, CA 90015
$303 Single – Studio King
$313 Double – Studio King
$323 Single / Double – Queen / Queen

**Luxe City Center**
1020 S. Figueroa St
Los Angeles, CA 90015
$280 Single / Double
Academy of Osseointegration Annual Meeting
February 28 – March 3, 2018 • Los Angeles, CA

Please type or print your name exactly as you wish it to appear on the badge:

<table>
<thead>
<tr>
<th>First name</th>
<th>Family name</th>
<th>Degree</th>
<th>NPI # (U.S. Only)</th>
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<th>Office Address</th>
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I am a(n):
- □ AO Member
- □ Non-Member
- □ AO Student Member
- □ Student Non-Member (letter from Chief of Service required)
- □ Other (please specify)

Please indicate primary specialty:
- □ Oral & Maxillofacial Surgeon
- □ Periodontist
- □ Prosthodontist
- □ General Dentist
- □ Auxiliary Staff (Dental Technician, Nurse, Office Staff, Scientist, Technical Representative)
- □ Endodontics
- □ Oral & Maxillofacial Pathology
- □ Oral & Maxillofacial Radiology
- □ Orthodontics
- □ Pediatric Dentistry
- □ Other (please specify)

Registration Fees
(see the Registration Packet for optional programs and lectures)

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<tr>
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<th>AO MEMBER</th>
<th>Non-Member</th>
<th>AO Student Member</th>
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<tr>
<td>Doctor (DDS, DMD)</td>
<td>Through Jan. 8</td>
<td>Jan. 9 – Feb. 5</td>
<td>After Feb. 5</td>
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<td>$499</td>
<td>$599</td>
<td>$749</td>
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<tr>
<td>Associate/Allied Staff (CDT, MDT, RDH, ROT, Office Staff)</td>
<td>$215</td>
<td>$265</td>
<td>$415</td>
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Note: Each registrant must be their own member, not just staff of a member.
- □ Student
  - Through Jan. 8: $125
  - Jan. 9 – Feb. 5: $150
  - After Feb. 5: $175

NON-MEMBER*
- □ Doctor (DDS, DMD)
  - Through Jan. 8: $1,100
  - Jan. 9 – Feb. 5: $1,200
  - After Feb. 5: $1,345
- □ Allied Staff (CDT, MDT, RDH, ROT, Office Staff)
  - Through Jan. 8: $295
  - Jan. 9 – Feb. 5: $345
  - After Feb. 5: $495
- □ Student (letter from Chief of Service required)
  - Through Jan. 8: $350
  - Jan. 9 – Feb. 5: $400
  - After Feb. 5: $550
- □ Non-Doctor (CEO, PharmD, PhD, Scientist, Other)
  - Through Jan. 8: $290
  - Jan. 9 – Feb. 5: $340
  - After Feb. 5: $490
- □ Spouse/Guest (limit two guests per registrant)
  - Through Jan. 8: $100 ea.
  - Jan. 9 – Feb. 5: $125 ea.
  - After Feb. 5: $150 ea.

*AO membership applications MUST be received in AO office at least two weeks prior to registration deadlines to be eligible for member discount. Apply online at www.osseo.org.

ANNUAL MEETING CONFERENCE RECORDING
- □ Online Access
  - Member: $200
  - Non-Member: $250
  - Shipping*: $0
- □ Flash Drive
  - Member: $200
  - Non-Member: $250
  - Shipping*: $15

*Outside U.S. only

Total of this page $ ________________

Deadline for Advance Registration: February 5, 2018 • Register online at osseo.org
Pre-Conference Sessions (Wednesday, February 28)
Participants must be registered for the Annual Meeting in order to register for the Pre-Conference Sessions

Comprehensive Anatomy Review Related to Dental Implant Surgery (8:00 am – Noon)
  AO Members – $250  Non-Members – $300  AO Student Member – $25  Student Non-Member – $100 $ ________________

Implant-related Complications: Causes, Prevention, and Management (1:00 – 5:00 pm)
  AO Members – $250  Non-Members – $300  AO Student Member – $25  Student Non-Member – $100 $ ________________

Discount if taking both morning and afternoon sessions (excludes students): AO Members – $400; Non-Members – $500 $ ________________

Hands-On Workshop Sessions (Wednesday, February 28)
Participants must be registered for the Annual Meeting in order to register for the Hands-On Workshops

Full-day (9:00 am – 4:00 pm)
AO Members – $500  Non-Members – $600  _____ HOW-01 $ ________________

Half-day (9:00 am – noon)
AO Members – $250  Non-Members – $300  Please rank in order of preference:
  _____ HOW-02  _____ HOW-03  _____ HOW-04  _____ HOW-05  _____ HOW-06  _____ HOW-07 $ ________________

Half-day (1:00 – 4:00 pm)
AO Members – $250  Non-Members – $300  Please rank in order of preference:
  _____ HOW-08  _____ HOW-09  _____ HOW-10  _____ HOW-11  _____ HOW-12  _____ HOW-13 $ ________________

TEAM Program (Saturday, March 3)
Complimentary to all Annual Meeting Registrants (not including Spouse/Guests)
(Program only – does not include Annual Meeting attendance) Members – $125  Non-Members – $150 $ ________________

I am registering to attend the Annual Meeting and choose to attend this program at no additional charge.

☐Yes $0

Laboratory Technician Program (Saturday, March 3)
Complimentary to all Annual Meeting Registrants (not including Spouse/Guests)
(Program only – does not include Annual Meeting attendance) Members – $125  Non-Members – $150 $ ________________

I am registering to attend the Annual Meeting and choose to attend this program at no additional charge.

☐Yes $0

Optional Lectures

Morning With the Masters (Friday, March 2, 7:00 – 8:00 am)
  AO Members – $125  Non-Members – $150  Please rank in order of preference:
  1st choice ______________________  2nd choice ______________________  3rd choice ______________________ $ ________________

Young Clinicians’ Luncheon (Friday, March 2, 11:45 am – 1:15 pm)  ☐Yes $0

Lunch With the Masters (Saturday, March 3, Noon – 1:30 pm)
  AO Members – $150  Non-Members – $175  Please rank in order of preference:
  1st choice __________  2nd choice __________  3rd choice __________  4th choice __________  5th choice __________ $ ________________

Deadline for Advance Registration: February 5, 2018
Register online at osseo.org

Method of payment:  ☐Check*  ☐Visa  ☐MasterCard  ☐American Express

Total Remittance $ ________________

Name on card  Signature

*Make checks payable to AO in U.S. funds only.
- Non-U.S. registrations: payable by credit card.
- All refund requests must be made in writing by February 5, 2018.
- Cancel before February 5, 2018 to qualify for a refund (less $75 fee).
- No refunds on cancellations after February 5, 2018.
- Please note, registrations are not transferrable.

By registering for this meeting, I hereby acknowledge and agree that AO or its agents may take photographs of me during events and may freely use those photographs in any media for AO’s purposes, including but not limited to news and promotional purposes, without further compensation to me.
Atlantis® CustomBase solution

Get a better angle

Now available with angulated screw access for Astra Tech Implant System EV, there is nothing “stock” about Atlantis CustomBase solution. With up to 30 degrees of angulation, achieving patient-specific function and esthetics is now even easier.

- Patient-specific design of core and height for optimized retention
- Customized emergence profile for enhanced soft-tissue management
- Allows for reduced inventory management

Try-in of a stock titanium-base component presents inadequate results. Atlantis CustomBase solution provides a solid foundation for your single-tooth, screw-retained restorations.

Digital implant workflow
Connect to the future
What sets SmartFix apart is how it all comes together for full-arch therapy on four implants.

Dentsply Sirona Implants’ SmartFix concept for the Astra Tech Implant System EV is designed with attention to the smallest details—creating innovations that make a big difference in helping you avoid workarounds, while achieving optimal outcomes for your fully edentulous patients.

All delivered with the reliability of the Astra Tech Implant System BioManagement Complex™: well-documented for long-term marginal bone maintenance.

Visit booth #301 to learn more and experience the difference for yourself.