Greetings from the Program Chair

On behalf of the Annual Meeting Program Committee, I would like to invite you to the 35th Annual Meeting of the Academy of Osseointegration, March 18-21, 2020, at the Washington State Convention Center in Seattle, Washington.

The theme of the meeting is “Evolving Technologies in Implant Dentistry,” taking a near-future perspective of technology that clinicians can incorporate into their practices. We have invited world-renowned experts to share different methodologies to improve outcomes and streamline dental implant therapy for patients, while discussing technology that is current, cutting-edge and available to clinicians.

The meeting will commence on Wednesday with Pre-conference Courses designed to navigate surgical and prosthetic pitfalls. First, Dr. Kenneth Reed will provide a comprehensive review of sedation and medical interactions. In the afternoon, Dr. Antoanela Garbacea will present on full-arch fixed implant restorations. These courses are designed to fulfill some of the requirements for the AO Certificate in Implant Dentistry.

Our meeting will begin on Thursday 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 presentations in the Exhibit Hall during lunch.

The afternoon’s Opening Symposium, chaired by our past President, Dr. Michael Block, will kick off with our keynote speaker: Dr. Catherine Mohr, President of the Intuitive Foundation, manufacturer of the da Vinci Surgical Robot, who will discuss how new technology will impact future medicine. Dr. Robert Guldberg will update us on the future of tissue engineering for implant dentistry, while Dr. Christian Coachman will present on digital planning for esthetics. The digital workflow for the implant team will be covered by Dr. Marcus Abboud and the afternoon will conclude with Dr. Frank Spear answering the question, “When Is a Dentition Terminal?”

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

Friday will begin bright and early with eight Morning Workshops on the Masters sessions to provide the opportunity to interact in an smaller setting with world-renowned experts including Drs. Istvan Urban, Bach Le, Rodrigo Neiva, David Guichet, Bill Marais, Mark Montana, Howard Gluckman and Wael Att.

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 offered Friday afternoon.

On Friday, two tracks are planned which integrate surgical and restorative topics while addressing clinical problems. The morning Surgical Track will cover “Virtual Planning and Guided Surgery” with Drs. German Gallucci, Hugo De Bruyn, Michael Pikos, Michael Block, Jeffrey Ganeles, Michael Scherer and Arndt Happe. The morning Prosthetic Track is an “Update on New Restorative Materials and Technology” with Drs. Bryan Limmer, Markus Blatz, Marta Revilla León, Nitzan Bichacho, Benjamin Wu, Lee Culp and Wael Att.

The afternoon Surgical Track discusses the use of “Technology for Bone Augmentation” with Drs. Federico Hernández-Alfaro, Marc Nevins, Dong-Seok Sohn, Alan Herford, Darnell Kaigler and Bilal Al-Nawas. The afternoon Prosthetic Track is on “Digital Prosthetic Dentistry” with Drs. Mark Ludlow, Lyndon Cooper, Curtis Jansen, Peter Wöhrle, Ueli Grunder and Alessandro Pozzi.

This year, we are incorporating the Hands-on Workshops throughout the program. Friday morning will feature a Hands-on Workshop on "Immediate Implant Temporization" with Dr. Stephen Chu and Dr. Tiziano Testori Friday afternoon on "Maxillary Sinus Augmentation Techniques.”

Friday evening, Dr. and Mrs. Jay Malmquist 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 Seattle Museum of Flight.

Saturday will offer the full-day TEAM Program and Dental Laboratory Technician Program that promises to bring the very latest information to their audiences. The Hands-on Workshops on Saturday morning will be presented by Dr. Howard Gluckman on "Socket Shield Technique in the Esthetic Zone" and Dr. Alessandro Pozzi will present Saturday afternoon on "Digitally and Biologically Driven for Full-arch Reconstruction.”

The main podium on Saturday morning will be on the important topic of treatment planning decisions in implant dentistry. Dr. Costa Nicolaoupolous will discuss the “Pretreatment of Failed Implant Cases.” The important question on whether “To Save or Remove an Ailing Implant” will be covered by Dr. Paul Rosen. Dr. Anton Sculean will review “Treatment of Soft Tissue Defects Around Dental Implants.” Peri-implantitis and
Greetings from the Program Chair

methods for implant surface decontamination will be covered by Dr. Hom-Lay Wang. Dr. Sonia Lezzi will present on “Gingival Augmentation Options for Esthetic Zone Implants.” The morning session will end with the Australian team of Drs. Brent Allan and Glen Liddelow on “Using Technology for Full-arch Immediate Loading.”

During lunch, please join us and experience close interaction with six wonderful clinicians, Drs. Todd Schoenbaum, Georgios Romanos, Michael Scherer, Tara Aghaloo, Marco Brindis and Bradley McAllister at the Lunch With the Masters sessions. This is the perfect chance to get up close and personal, discussing selected topics with leaders in implant dentistry. Saturday afternoon’s Closing Symposium promises to end the meeting with a bang, debating “Minimally Invasive Versus Reconstructive Techniques” to manage four common clinical problems. The renowned authority, Dr. Dennis Tarnow, will moderate this exciting session. Drs. Tiziano Testori and Homayoun Zadeh will discuss “Regenerative Versus Non-regenerative Solutions for the Atrophic Posterior Maxilla.” The question of saving teeth or extracting for implant replacement will be debated by Saj Jivraj and Pamela McClain. Drs. Edmond Bedrossian and Gerry Raghoebart will help us determine if we should be using bone grafting or zygoma implants for the severely ztrophic maxilla. The “Esthetic Zone Defect: Prosthetic Gingiva Versus Reconstruction” will be addressed by Drs. Stephen Chu and Joseph Kan.

As you can see, the Academy’s 2020 Annual Meeting promises to be an outstanding opportunity to become updated on the latest technology in implant dentistry and learn from the top experts from around the world. 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 see the Space Needle, tour Pike Place Market, take a harbor cruise and visit the Museum of Pop Culture. We invite you to register for the meeting today and look forward to seeing you in the beautiful Emerald City – Seattle.
LOCATION
The meeting will be held at the Washington State Convention Center, located at 705 Pike Street in downtown Seattle, WA.

REGISTRATION
Register before January 13, 2020 to take advantage of the early 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
• Complimentary Lunches

The Meeting Registration Desk will be located in the Atrium Lobby (4th Floor) of the Washington State Convention Center beginning at 7:00 am, Wednesday, March 18th.

*Non-Members: Become a member of the AO and take advantage of all of the benefits of membership including a 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.” To become a member, visit us online at www.osseo.org/become-a-member/.

PREMIER MEMBER REGISTRATION PACKAGE (NEW)
The Premier Member Registration package (a nearly $900 value) is available to AO members until January 13th (or the first 100 registrants) and includes the following items to help maximize your experience at the meeting:
• General Registration
• Preferred seating at the Plenary Sessions
• One (1) Morning With the Masters Session on Friday (a $125 value)
• Three-year online subscription to the 2020 Annual Meeting Conference Recordings (a $225 value)
• Voucher for free AO hat or polo shirt – while supplies last
• Priority badge pick-up to avoid any lines
• Guaranteed housing at the meeting headquarters hotel (through January 13).

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 Atrium Lobby (4th Floor) of the Washington State Convention Center beginning on Saturday, March 21st. The TEAM and Laboratory Technician registration fee includes lunch and access to the Exhibit Hall on Saturday.

ACTIVE DUTY MILITARY REGISTRATION DISCOUNT
Actively serving military personnel from any country may receive the early registration rate, but are encouraged to pre-register early. After the early registration deadline of February 24th, please contact the AO Registration Department 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 qualify for the early rate on site.

HOUSING INFORMATION
The convention hotels include the Sheraton Grand Seattle and Grand Hyatt Seattle hotels. Both of these hotels are walking distance to the Washington State Convention Center.

Hotel reservations must be made through onPeak, the official AO Housing Bureau, either online or by phone. A credit card guarantee is required. The hotels will not accept reservations directly.

Hotel Rates:
Sheraton Grand Seattle Hotel
$259 Single / Double
(+15.6% tax + $2 per room / per night tourism fee)
(Headquarters Hotel – 1/2 block from Convention Center)

Grand Hyatt Seattle Hotel
$199 King Bed / $214 Two Beds
(+15.6% tax + $2 per room / per night tourism fee)
(1/2 block from Convention Center)

For best availability, make your reservation online at:
Internet: https://compass.onpeak.com/e/012606022/
Phone: 855-904-2787 (US & Canada)
312-527-7300 (International)
Monday – Friday, 9:00 am – 6:00 pm ET

You can also contact AO housing via our support center by emailing AOhotels@onpeak.com.

The deadline for hotel reservations is Monday, February 17, 2020.

Hotel reservations/rate availability are not guaranteed after the room block is full or after February 17, 2020. 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.

WARNING! onPeak is the only official hotel provider associated with the AO Annual Meeting. We have received reports that other companies are posing as official travel vendors for the Annual Meeting and may contact you offering hotels for your trip. They are not endorsed by or affiliated with the show and entering into financial agreements with such companies is not advised.

TRANSPORTATION
The Seattle – Tacoma International Airport (SEA) is located 14 miles from the Washington State Convention Center. The estimated taxi fare is $45 (one way).
Link Light Rail
Sound Transit’s Link Light rail makes trips from Angle Lake Station to the University of Washington through downtown Seattle. Trains arrive every 6 to 15 minutes, depending on the time of day, and take about 40 minutes to travel between Sea-Tac International Airport and Westlake Station in downtown Seattle.

Schedule:
Monday – Saturday, 5:00 am – 1:00 am
(last train from the airport departs at 12:04 am)
Sunday, 6:00 am – midnight
(last train from the airport departs at 11:19 pm)

Adult Fare: $2.25–$3.25 (ORCA cards)
For additional information, please visit:
https://www.soundtransit.org/ride-with-us/how-to-pay/fares/
link-light-rail-fares.

Special Discount from Lyft
Lyft is offering an exclusive discount to all attendees. Get 20% off to and from the airport and 20% off up to two inner city rides. Check the meeting website before leaving to receive the promotional discount code.

OFFICIAL TRAVEL AGENCY
To book your airline reservation, call AO’s official travel agency, Uniglobe Travel Partners, at 1-800-235-9386 and after the prompt dial “0” (Monday – Friday, 8:30 am – 7:00 pm CST).
Attendees outside the U.S. please call 1-925-838-4445.

TEMPERATURE
The average March temperature in Seattle, WA is a high of 57°F (14°C) to a low of 39°F (4°C).

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

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 30.5 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 5/1/2018 - 6/30/2022.

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
• Access to the 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, indicating how that presentation corresponds to the CE Requirements for the Certificate. Each required subject area has been assigned a number.

Listed below are the required CE categories and its corresponding number 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:*

**Sedation: The Good, the Bad and the Ugly**

This presentation would qualify to meet the hours for the Local Anesthetic or the Pharmacology category.

**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

*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](https://osseo.org/ao-certificate).
**WEDNESDAY, MARCH 18**

7:00 am – 6:00 pm  
Registration  

8:00 am – noon  
Pre-conference Session: Sedation: The Good, the Bad and the Ugly  
1:00 – 5:00 pm  
Pre-conference Session: Complete Arch Fixed Implant Rehabilitation: A Restorative Perspective  

**THURSDAY, MARCH 19**

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  
Noon – 7:00 pm  
Exhibit Hours  
12:10 – 1:00 pm  
e-Poster Presentations in the Exhibit Hall  
1:00 – 5:20 pm  
Welcome Remarks and Opening Symposium  
5:30 – 7:00 pm  
Welcome Reception and e-Poster Presentations in the Exhibit Hall  
7:00 – 9:00 pm  
Young Clinicians’ Reception at Pike Brewing Company  

**FRIDAY, MARCH 20**

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 – noon  
Hands-on Workshop  
8:00 am – 5:00 pm  
Surgical Track  
8:00 am – 5:00 pm  
Prosthetic Track  
9:30 am – 4:00 pm  
Exhibit Hours  
noon – 1:30 pm  
Complimentary Lunch and e-Poster Presentations in Exhibit Hall  
noon – 1:30 pm  
Young Clinicians’ Luncheon  
1:00 – 5:00 pm  
Hands-on Workshop  
1:30 – 5:10 pm  
Oral Scientific Research Abstract Presentations  
1:30 – 5:10 pm  
Clinical Innovations  
7:00 – 10:00 pm  
President’s Reception at the Museum of Flight  

**SATURDAY, MARCH 21**

7:00 am – 3:00 pm  
Registration  

8:00 am – noon  
Treatment Planning Decisions  
8:00 – noon  
Hands-on Workshop  
8:00 am – 3:30 pm  
Laboratory Technician Program  
8:00 am – 3:30 pm  
TEAM Program  
9:30 am – 2:00 pm  
Exhibit Hours  
noon – 1:30 pm  
Complimentary Lunch in Exhibit Hall  
noon – 1:30 pm  
Lunch With the Masters  
1:00 – 5:00 pm  
Hands-on Workshop  
1:30 – 2:00 pm  
Annual Business Meeting  
2:00 – 5:00 pm  
Closing Symposium  

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
One half-day session: Members: $250 – Non-Members: $300 – Student Members: $50 – Student Non-Members: $100
Both sessions: Members: $400 – Non-Members: $500 – Student Members: $100 – Student Non-Members: $200
Admission by ticket only • Attendance is limited • Pre-registration is required. On-site registration will not be permitted.

Participants must be registered for the Annual Meeting to enroll in the Pre-conference Sessions

The Academy is offering two educational courses to assist 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
Sedation: The Good, the Bad and the Ugly
Kenneth Reed, DMD

All forms of sedation will be reviewed, nitrous oxide, oral sedation and IV sedation. Discussions of which technique is preferable for which patient types and procedures will be outlined. Training requirements will be highlighted for each of the levels of sedation. Adverse outcomes will be reviewed with strategies for prevention of these events. Finally, news reports and the influence of the media surrounding these events will be discussed.

Upon completion of this presentation, participants should be able to: 1) distinguish the four levels of sedation and anesthesia; 2) describe the training required for each level of sedation; and 3) discuss strategies for prevention of adverse occurrences.

1:00 – 5:00 pm
Complete Arch Fixed Implant Rehabilitation: A Restorative Perspective
Antoanela Garbacea, DDS, MSD

Prosthetic reconstruction of the edentulous maxilla is recognized to be challenging and requires detailed data collection and planning. Understanding the esthetic and structural risk factors based on lip dynamics and prosthetic space availability will improve favorable outcome predictability in complex situations. This presentation will identify the optimal prosthetic design and will provide a patient-specific assessment guide regarding treatment planning of the edentulous maxilla for fixed or removable implant-supported prostheses. The interdisciplinary team will be provided specific guidelines to identify the patient condition and the potential solutions.

Upon completion of this presentation, participants should be able to: 1) explain the significance of the preoperative evaluation of the patient’s existing condition prior to planning comprehensive treatment; 2) choose conservative treatment options based on the patient’s specific anatomical characteristics, bone resorption pattern, optimal prosthetic emergence profile, and the significance of the prosthesis for facial and dental esthetics; and 3) recognize the esthetic, biological and structural limitation that can lead to irreversible failure.

Wednesday, March 18
Pre-conference Sessions

10:00 – 10:30 am
Refreshment Break

3:00 – 3:30 pm
Refreshment Break

Eligible for AO Certificate in Implant Dentistry CE Hours
NEW THIS YEAR! All Hands-on Workshops will be presented during Annual Meeting.

Members: $500 per session – Non-Members: $600 per session

Participants do not need to register for the Annual Meeting to enroll in the Hands-on Workshops.

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

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

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-1
8:00 am – noon
Maxillary Sinus Augmentation: Lateral Approach
Tiziano Testori, MD, DDS

Maxillary sinus elevation has become an indispensable part of implant surgery and procedures have evolved during the last 25 years to a point where sinus grafting surgery is considered one of the most predictable augmentation methods performed today. The survival rate of implants placed in these grafts is proving to be as successful as implants placed in the non-grafted posterior maxilla. Sinus elevation surgical procedures are still evolving and the Simplified Antrostomy Design (S.A.D.) is one of the steps marking the evolution of surgical techniques.

The S.A.D. technique decreases intra-op complications like perforations, speeds up all the procedures and makes sinus membrane elevation easier.

During the workshop, anatomic models will be utilized to give participants a hands-on introduction to the lateral approach. Didactic models have been manufactured starting from real patient DICOM images combining in the same model, two different clinical scenarios: an easy sinus, and a difficult one.

A planning session with dedicated software of the scanned models will allow the participants to evaluate the difficulty of the case utilizing “The Maxillary Sinus Elevation Difficulty Score (MSEDscore)”. The workshop will include only the piezosurgical approach. The traditional technique with rotary instruments will be only shown on videos.

Upon completion of this presentation, participants should be able to: 1) explain how knowledge of surgical anatomy can prevent complications and achieve optimal results; 2) discuss the rationale for correct pre-operative planning and utilize “The Maxillary Sinus Elevation Difficulty Score” (MSEDscore); and 3) conduct step-by-step surgical techniques for the lateral approach.

HOW-2
1:00 – 5:00 pm
Immediate Provisional Restoration of Post-extraction Socket Implants
Stephen Chu, DMD, MSD, CDT

This presentation will focus on the immediate temporization of extraction socket implants with either custom healing abutments or full provisional crowns. Temporary restorations will be made both free hand or with pre-formed gingival former devices to capture the shape of the peri-implant tissues. A step-by-step technique will be shown in the fabrication of these restorations as well as the importance of doing so in preservation of tissues post-extraction.

Upon completion of this presentation, participants should be able to: 1) discuss the importance of immediate temporization; 2) describe how to make a custom healing abutment; and 3) explain how to make a full provisional restoration.

3:00 – 3:30 pm
Refreshment Break

10:00 – 10:30 am
Refreshment Break
NEW THIS YEAR! All Hands-on Workshops will be presented during the Annual Meeting.

Members: $500 per session – Non-Members: $600 per session

Participants do not need to register for the Annual Meeting to enroll in the Hands-on Workshops.

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

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

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-3
8:00 am – noon
Socket Shield Technique in the Esthetic Zone
Howard Gluckman, BDS, MChD, PhD

The loss of teeth will lead to resorption of the buccal plate with its resultant need for extensive augmentative procedures (both bone and soft tissue) as well as the risk of poor long-term aesthetic stability. Socket shield techniques allow us to maintain the buccal bone plate and hence prevent the collapse of the alveolar bone, creating a platform for ideal soft tissue and bone which is stable long-term. This is a greater problem in the aesthetic areas. This hands-on will take you through the different options with regards to immediate implant placement as well as the most cutting-edge socket shield technique in a step-by-step fashion.

Upon completion of this presentation, participants should be able to: 1) utilize step-by-step procedures for the socket shield technique; 2) discuss prosthetic design relating to socket shield; and 3) explain utilizing the rotated palatal flap for coverage of root submergence technique and the pontic shield.

HOW-4
1:00 – 5:00 pm
Digitally and Biologically Driven for Full-arch Reconstruction
Alessandro Pozzi, DDS, PhD

Digital workflow can enhance the treatment of complex cases in which the anatomic deficiencies must be addressed as well as the demands of a minimally invasive approach and high esthetic outcome. Advanced optical scanning technology, blended with the CBCT assessment conducted with the “Smiling Scan Technique” provide the team with a comprehensive virtual scenario that will drive decision-making toward a personalized treatment plan. New surgical and prosthetic protocols based on the dynamic navigation technology will be widely described to allow the attendees to deliver a precise position of the implants as well as of the complete arch x-guided prosthesis. The new digital assisted soft sculpturing (DASS) technique to sculpture the bone and soft tissue and the use of xenogeneic collagen matrix to achieve a scalloped interface for highly esthetic pink free restoration will be presented on real patient models. The interplay between IOS scanning, navigation systems and modern biomaterials for soft-tissue healing enhancement and development drives the participants to the next level in terms of accuracy, predictability and low morbidity.

Upon completion of this presentation, participants should be able to: 1) analyze the benefits and disadvantages of using digitally guided surgery and prosthetic techniques; 2) explain the different clinical indications of CAD/CAM template guided implant surgery and x-guide navigation implant surgery; 3) determine when immediate loading is feasible; and 4) describe the soft-tissue interface for pink-free full-arch restorations.
Corporate Forums

Thursday, March 19

8:00 am – noon

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: CE Credit is not provided for the Corporate Forum presentations.

Participating companies include:
Thursday, March 19
Opening Symposium

1:00 – 1:30 pm

Welcome and Introductions
Jay Malmquist, DMD, AO President; and
Craig Misch, DDS, MDS, Annual Meeting Program Chair

1:30 – 5:20 pm
Opening Symposium: Innovation and Technology
Moderator – Michael Block, DMD

KEYNOTE SPEAKER
1:30 – 2:10 pm
New Frontiers in Robotic Surgery
Catherine Mohr, MD, MS
President, Intuitive Foundation

Upon completion of this presentation, participants should be able to: 1) discuss the effect that medical technology has had on overall longevity; 2) explain the difference between infrastructure limited technology deployment and fast deploying technologies; and 3) describe the implications of emerging technologies like robotics and A.I. on the practice and training of medicine.

2:10 – 2:50 pm
The Future of Bioengineered Medical Devices and Regenerative Therapies
Robert Guldberg, PhD

Upon completion of this presentation, participants should be able to: 1) explain current capabilities in 3D printing of medical devices; 2) discuss the relative roles of implant surface topography and chemistry on osseointegration; and 3) identify the potential role for regenerative medicine strategies.

2:50 – 3:30 pm
The Modern Smile Rehabilitator – Efficiency and Differentiation Through Technology and Storytelling
Christian Coachman, DDS, CDT

Upon completion of this presentation, participants should be able to: 1) discuss the new trends of modern dentistry; 2) utilize 3D technology to improve diagnostics and treatment planning; and 3) explain the reasons why embracing digital is key for the financial survival of a dental office.

4:00 – 4:40 pm
Digital Workflow Implant Dentistry for the Team Approach
Marcus Abboud, DMD, PhD

Upon completion of this presentation, participants should be able to: 1) create digital implant workflows to include the present and the future; 2) explain how to increase predictability, effectiveness and patient satisfaction using fully digital workflows; and 3) explain how the key to a successful digital transformation is through an efficient team.

4:40 – 5:20 pm
When Is a Dentition Terminal?
Frank Spear, DDS

Upon completion of this presentation, participants should be able to: 1) recognize what criteria need to be assessed when considering saving versus removing a patient’s teeth; 2) explain what the literature says about the structural and periodontal criteria necessary for predictably in maintaining teeth; 3) describe which patients are at high risk if the teeth are removed and a full implant retained prosthesis is planned; and 4) discuss the role finances play in the decision to retain or remove a patient’s teeth.

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

7:00 – 9:00 pm
Young Clinicians’ Reception – Pike Brewing Company

3:30 – 4:00 pm
Refreshment Break in the Exhibit Hall
Morning With the Masters

Friday, March 20

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
Clinical Pearls of Vertical Augmentation of the Posterior Mandible
Istvan Urban, MD, DMD, PhD

Safety and predictability are the two most important factors of any clinical procedure. Among different regenerative procedures, vertical augmentation presents one of the greatest challenges of bone regeneration in implant dentistry. The modified lingual flap was developed on the basis of the detailed knowledge of the surgical anatomy of the floor of the mouth. The effectiveness of this flap technique was recently compared to the “classical” techniques reaching very strong clinical significance when applied in the posterior and the anterior mandible. This presentation will review surgical steps of the modified lingual flap in addition to the principles of advancing the buccal flap and at the same time preventing any damage of the mental nerve.

Upon completion of this presentation, participants should be able to: 1) identify the anatomy of the floor of the mouth; 2) identify the steps of membrane fixation; 3) list the steps of modified lingual flap; and 4) explain how to protect the mental nerve.

M-2
Bone Augmentation – Failures and Complications
Bach Le, DDS, MD

Complications associated with failed bone augmentation can have a devastating effect on the outcome of treatment. This clinical presentation will focus on how to identify and avoid potential complications before they arise and how to manage many of the common complications that can occur with bone augmentation procedures. Emphasis will be given to risk assessment, classifications of complications, and treatment of challenging failures.

Upon completion of this presentation, participants should be able to: 1) identify patient-related risk factors associated with bone augmentation procedures; 2) describe anatomical-related risk factors associated with bone augmentation procedures; and 3) explain the management of complications related to bone augmentation surgery.

M-3
Graftless and Graft-less Options for the Posterior Maxilla and Mandible
Rodrigo Neiva, DDS

New treatment, bone instrumentation options, and materials have been introduced to implant dentistry in recent years to reduce or eliminate the need for ridge augmentation. The aim of this presentation is to discuss possible advantages and realistic short- and long-term expectations of these new techniques and material.

Upon completion of this presentation, participants should be able to: 1) provide rationale for osseodensification, including new materials and techniques; 2) recognize enhanced implant designs; and 3) select materials based on properties and features.

M-4
Ceramic Implants: The New Kid on the Block
Wael Att, DDS, DMD, PhD

For more than 40 years, commercially pure titanium or titanium alloy has been the gold standard material for the fabrication of dental implants. Studies investigating clinical outcomes of titanium implants have shown excellent survival rates, however, concerns have been raised about the biocompatibility of titanium. While the current evidence for hypersensitivity or allergy remains very weak, ceramics have been utilized as an alternative implant material, primarily due to the favorable biocompatibility as well as mechanical properties. This presentation will provide an overview of zirconia implants, their advantages and their limitations. In addition, the clinical performance of the zirconia implant-restoration complex will be discussed with the goal to provide clinicians with guidelines regarding the use of such implants in daily practice.

Upon completion of this presentation, participants should be able to: 1) discuss the nature and composition of ceramic implants; 2) describe advantages and limitations of ceramic implants; and 3) record information about current knowledge on the clinical performance of ceramic implants.
Morning With the Masters

Friday, March 20

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-5
A Critical Look at Digital Treatment Protocols and Performance of CAD/CAM
David Guichet, DDS

Traditional methods of designing and creating 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 including digital treatment planning using multiple datasets, linked digital workflows, guided implant surgery, prototypes, and minimally veneered zirconia restorations in the prosthodontic rehabilitation.

Results of recent studies on CAD/CAM abutment/restorative accuracy and aesthetic 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) explain the uses and current limitations of digital restorative design and CAD/CAM production; 3) recognize digital workflows that enhance abutment/restorative fidelity; and 4) explain the difference between open and closed systems and “best in breed.”

M-6
Polymer Alternatives to Metal Implant Frameworks
Bill Marais, RDT, DTG

For the first time in my technician’s career, there is a truly new material available for use in creating dental restorations and prostheses: High Performance Polymers (HPP). Because of its biocompatibility and its ability to mimic nature so well, HPP has been developed for dental use from the polyether ketone material used successfully for decades already inside the human body. I will present my use of, and fabrication of, bio-compatible HPP in the oral cavity in place of previously used materials (custom abutments, Maryland Bridge, full-arch screw-retained bridges/hybrids, long-term temporary bridges, over dentures, dentures, crown and bridge) and I will also share crucial bonding protocols for use with the innovative new dental material.

Upon completion of this presentation, participants should be able to: 1) discuss the use of bio-compatible HPP in the oral cavity in place of previously used materials; 2) explain the use of HPP on screw-retained cases; and 3) apply bonding protocols for use with HPP.
M-7
Refining Outcomes With Screw-retained Restorations 📜
Mark Montana, DDS

This program will focus on patient-specific abutments and the simplicity and reliability they bring to the restorative process, while allowing for functional and esthetic results for each individual patient. Specifically, advancements in screw-retained restorations that provide enhanced efficiency to your existing workflow will be discussed. By optimizing access hole location, improvements in health, esthetics, occlusion and material strength are realized. Retrievability allows the clinician to meet the challenges of physiologic change in patients and eventual repair and replacement of functional and esthetic surfaces of the crown. In short, it’s never been easier to make better implant restorations. This lecture presents my private practice perspective and will compare the traditional analog approach of impressing and restoring implants, to the exciting introduction of digital scanning and direct data transfer to the dental laboratory or abutment manufacturer.

Upon completion of this presentation, participants should be able to: 1) compare the advantages and limitations of both cement and screw-retained options; 2) determine dental implant abutment selection and design, including angulated screw access; and 3) explain the comparative approaches for both analog and digital procedures for implant restoration technology.

M-8
Partial Extraction Therapy in the Esthetic Zone 📜
Howard Gluckman, BDS, MChD, PhD

The loss of teeth will lead to resorption of the buccal plate with its resultant need for extensive augmentative procedures (both bone and soft tissue) as well as the risk of poor long-term aesthetic stability. Partial Extraction Therapies (PET) are techniques that allow us to maintain the buccal bone plate and hence prevent the collapse of the alveolar bone creating a platform for ideal soft tissue and bone which is stable in the long-term. This is a greater problem in the aesthetic areas. This lecture will take you through the different options with regards to immediate implant placement as well as the most cutting-edge PET in a step-by-step fashion.

Upon completion of this presentation, participants should be able to: 1) describe the socket shield/root membrane technique; 2) explain the root submergence technique; and 3) discuss the pontic shield technique.

9:30 am – 4:00 pm
Exhibit Hours

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.
Surgical Track – Virtual Planning and Guided Surgery

Friday, March 20

8:00 am – noon
Moderator – Scott Ganz, DMD

8:00 – 8:30 am
The Virtual Patient

German Gallucci, DMD, PhD

Upon completion of this presentation, participants should be able to: 1) integrate digital interfaces into the patient treatment; 2) explain how digital technology can be applied to implant prosthodontics; and 3) describe how to incorporate digital workflow into practice.

8:30 – 9:00 am
Guided and Navigation Flapless Implant Surgery: Benefits and Risks

Hugo De Bruyn, DDS, MSc, PhD

Upon completion of this presentation, participants should be able to: 1) recognize the indications and limitations for flapless surgery; 2) describe the treatment workflow related to flapless surgery; and 3) recognize the risks of flapless surgery.

9:00 – 9:30 am
Fully-guided Full-arch Immediate Implant Reconstruction: 2020

Michael Pikos, DDS

Upon completion of this presentation, participants should be able to: 1) discuss the indications and protocol for fully-guided full-arch and full-mouth immediate placement with a prefabricated monolithic acrylic bar-supported provisional; 2) compare the advantages of this protocol over the conventional conversion denture protocol for full-arch and full-mouth implant reconstruction; and 3) examine the limitations of this fully-guided surgical and prosthetic protocol for full-arch immediate implant reconstruction.

9:30 – 10:00 am
Navigational Surgery

Michael Block, DMD

Upon completion of this presentation, participants should be able to: 1) discuss the benefits for using navigation in implant placement; 2) recognize the importance of accuracy and precision when placing an implant with simultaneous sinus elevation; and 3) recognize how navigation aids in esthetic implant positioning.

10:00 – 10:30 am
Refreshment Break in the Exhibit Hall

10:30 – 11:00 am
Robotic-assisted Implant Surgery

Jeffrey Ganeles, DMD

Upon completion of this presentation, participants should be able to: 1) differentiate the current methods of guided implant surgery; 2) define how haptic feedback in robotic surgery improves usability; and 3) present case reports illustrating benefits of robotics.

11:00 – 11:30 am
Updates in Digital Dentistry – Intraoral Scanning, and 3D Printing: What Works and What Doesn’t?

Michael Scherer, DMD, MS

Upon completion of this presentation, participants should be able to: 1) discuss principles, theory, and procedures of intraoral optical scanning technology; 2) demonstrate utilizing optical images to join restorative images on cone-beam CT scans; and 3) describe utilizing digital software to manipulate optical images, prosthetic design, and additive manufacturing technology.

11:30 am – noon
Limitations and Pitfalls of Guided Surgery

Arndt Happe, DDS, PhD

Upon completion of this presentation, participants should be able to: 1) recognize potential errors in guided surgery; 2) discuss how to avoid inaccuracies in guided surgery; and 3) explain how to avoid biologic and esthetic complications.

8:00 am – noon
Hands-on Workshop

Maxillary Sinus Augmentation: Lateral Approach
Tiziano Testori, MD, DDS
See page 9 for additional information.

Noon – 1:30 pm
Complimentary Lunch and e-Poster Presentations in the Exhibit Hall
8:00 – 8:30 am
The Use of PMMA in Implant Prosthetics
Bryan Limmer, DMD, MS

Upon completion of this presentation, participants should be able to: 1) describe the diversity of PMMA-based materials; 2) review common scenarios and current techniques for implant provisionalization; and 3) discuss provisional restorations as a communication tool between clinician and laboratory professionals.

8:30 – 9:00 am
Novel Materials for Implant Prostheses
Markus Blatz, DMD, PhD

Upon completion of this presentation, participants should be able to: 1) differentiate properties of current materials in implant prosthodontics; 2) describe CAD/CAM materials and technologies; and 3) discuss guidelines for long-lasting implant-supported rehabilitation.

9:00 – 9:30 am
3D Metal Printing in Implant Prosthetics
Marta Revilla León, DDS, MSD

Upon completion of this presentation, participants should be able to: 1) distinguish the different metal additive manufacturing (AM) technologies; 2) describe the advantages of metal AM procedures compared with conventional procedures; and 3) discern the current applications of metal AM technologies in implant prosthetic dentistry.

9:30 – 10:00 am
Biologically-oriented Esthetic Implant Restorations
Nitzan Bichacho, DMD

Upon completion of this presentation, participants should be able to: 1) explain the role of deep and superficial contours in implant-supported crowns; 2) ensure minimal 3mm thickness of combined buccal tissues and crestal mucosa; and 3) discuss using a non-compressive engaging implant head design for more crestal bone.

10:00 – 10:30 am
Refreshment Break in the Exhibit Hall

10:30 – 11:00 am
Screw-less/Cement-less Prosthetic Retention Options
Benjamin Wu, DDS, PhD

Upon completion of this presentation, participants should be able to: 1) describe the basic mechanism of screw-less and cement-less retention systems; 2) list the retrieval instruments that are required for each system; and 3) explain the clinical rationale for selecting screw, cement and alternative implant retention mechanisms.

11:00 – 11:30 am
Laboratory Challenges of the Digital Workflow
Lee Culp, CDT

Upon completion of this presentation, participants should be able to: 1) describe the process for the creation of a virtual patient; 2) explore digital communication between dentist, surgeon and laboratory; and 3) list the uses of new restorative materials.

11:30 am – noon
Clinical Advantages and Disadvantages of the Digital Workflow
Wael Att, DDS, DMD, PhD

Upon completion of this presentation, participants should be able to: 1) provide an overview about the digital workflow in contemporary implant dentistry; 2) compare the accuracy and efficacy of different digital tools; and 3) demonstrate limitations of current digital workflow.

Noon – 1:30 pm
Complimentary Lunch and e-Poster Presentations in the Exhibit Hall
Admission by ticket only • Attendance is limited • Complimentary for Annual Meeting registrants

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

Noon – 1:30 pm
Moderator – Jose Antonio Garcia Montemayor, DDS

Noon – 12:30 pm
Paired Approach to Soft and Hard Tissue Complex for Anterior Immediate Implant Placement

Michitsuna Katafuchi, DDS, MSD, PhD

Immediate implant placement after tooth extraction is an established method. Flapless implant placement has successfully been documented, especially in the esthetic zone. The question rises if the buccal plate lasts when it is thin and a buccal bone concavity is present. This presentation will propose a technique, paired approach, that increases peri-implant tissue thickness for the crestal area of the immediate implant without opening a full thickness flap and accesses the bone concavity to augment the bone. This approach may contribute to maintaining esthetics, promoting peri-implant health and reducing the risks for peri-implantitis.

Upon completion of this presentation, participants should be able to: 1) identify the clinical scenario to perform the paired approach technique for anterior immediate implant placement; 2) explain the step-by-step surgical procedure for the proposed paired approach; and 3) discuss complications related to paired approach.

12:30 – 1:00 pm
Multidisciplinary Treatment of Full-arch Rehabilitation for Class III Malocclusion Patients

Jessie Ye Shi, DDS

Patient’s dental classification and skeletal classifications may not always coincide and treatments will vary depending on the appropriate diagnosis. To treat severe Class III malocclusion, orthognathic surgery in conjunction with orthodontic therapy will be needed. Orthodontic therapy can only be utilized to camouflage mild to moderate Class III malocclusions. However, as teeth are extracted and the dentoalveolar resorption process begins, it becomes more challenging to restore the function and esthetics for the patient to that of their initial dental classification. Comprehensive and multidisciplinary treatment is imperative to have a favorable outcome for these mutilated Class III malocclusion patients. Patients that present with edentulous spaces can greatly benefit from dental implants and prostheses as tooth replacement is required.

This lecture will discuss treatment modalities to deal with the mutilated Class III malocclusion patients for full-arch rehabilitation. It will address clinical guidelines to help clinicians to correctly diagnose these patients so that an appropriate treatment for Class III patients can be selected. Understanding the differences between skeletal, dental and mutilated dentition is imperative to successfully treat malocclusion patients and to reduce the risks of adverse treatments.

Upon completion of this presentation, participants should be able to: 1) provide a brief overview on the etiology and diagnoses of skeletal and dental classifications, and mutilated dentitions of varying severities; 2) identify possible solutions to treating the mutilated Class III patients; and 3) list the indications and contraindications for such treatments.
1:00 – 1:30 pm
Social Media: The New Standard in Dental Education?

Wes Mullins, DDS and Jon Rogers, DMD of “The Dental Guys” Podcast

Social media has taken the world by storm and has changed the way people acquire and consume information. We have seen a tremendous impact on dental education through the availability of photos, videos, and opinions on how to best treat patients. Now, a clinician can easily be inundated with information from these outlets or individuals, some of whom claim that they are experts in various aspects of clinical treatment. We will discuss the effects of this phenomenon on dental education and explore the pros and cons of this new way to “learn.” Is social media pushing our profession away from evidence-based decision making or is there a potential for this to help our profession and improve outcomes for our patients?

Upon completion of this presentation, participants should be able to: 1) identify the current state of social media in implant dentistry and its impact on education; 2) describe the risk and benefits of social media as an educational platform; 3) explain ways we can leverage social media to improve standards in implant dentistry; and 4) discuss how social media could impact the future of implant dentistry.
Surgical Track – Technology for Bone Augmentation

Friday, March 20

1:30 – 5:00 pm
Moderator – Tara Aghaloo, DDS, MD, PhD

1:30 – 2:00 pm
Evolution of Regenerative Techniques
Federico Hernández-Alfaro, MD, DDS, PhD

Upon completion of this presentation, participants should be able to: 1) describe the different atrophic scenarios; 2) identify the best possible solution for each problem; 3) explain the technical details and possible complications associated with each specific technique; and 4) recognize the limitations of reconstructive techniques.

2:00 – 2:30 pm
Advances for Esthetic Dental Implants: Minimally Invasive Techniques With Biologics
Marc Nevins, DMD, MMSc

Upon completion of this presentation, participants should be able to: 1) apply tissue engineering to clinical decision-making to achieve optimal biologic and esthetic results for challenging dental implant cases; 2) describe techniques utilizing rhPDGF-BB for combined hard and soft tissue grafting; and 3) explain how the use of technology can ease the treatment process for patients and improve the predictability for biologic and esthetic longevity.

2:30 – 3:00 pm
Simplified Surgical Management using Sticky Bone for Advanced Ridge Augmentation
Dong-Seok Sohn, DDS, PhD

Upon completion of this presentation, participants should be able to: 1) explain simplified ridge augmentation using sticky bone; 2) discuss surgical options for advanced ridge augmentation; and 3) describe the utilization of autologous concentrated growth factors in implant dentistry.

3:00 – 3:30 pm
Refreshment Break in the Exhibit Hall

3:30 – 4:00 pm
rhBMP-2 for Ridge Augmentation
Alan Herford, DDS, MD

Upon completion of this presentation, participants should be able to: 1) recognize which defects would benefit from rhBMP-2 grafting; 2) describe the disadvantages and advantages of incorporating a growth factor; and 3) explain the technique for ridge augmentation with rhBMP-2.

4:00 – 4:30 pm
Stem Cell Therapies for Bone Regeneration
Darnell Kaigler, DDS, PhD

Upon completion of this presentation, participants should be able to: 1) identify clinical applications for tissue engineering approaches for regeneration of periodontal, peri-implant, and alveolar bone tissues; 2) discuss the key tissue engineering parameters for successful clinical outcomes; and 3) explain how stem cell therapies have the potential to be implemented into day-to-day clinical practice.

4:30 – 5:00 pm
Custom 3D Ti Mesh for Bone Augmentation: Indications and Limits
Bilal Al-Nawas, MD, DDS

Upon completion of this presentation, participants should be able to: 1) describe indications for 3D custom meshes; 2) explain surgical details to prevent complications; and 3) discuss options how to solve complications.

1:00 – 5:00 pm
Hands-on Workshop
Immediate Provisional Restoration of Post-extraction Socket Implants
Stephen Chu, DMD, MSD, CDT
See page 9 for additional information.
1:30 – 2:00 pm  
**Implants and the Intra-oral Scanner**
Mark Ludlow, DMD, MS

Upon completion of this presentation, participants should be able to: 1) list the different scanners which are currently on the market and be able to assess which one may be the best fit for your practice; 2) describe the workflows that exist for diagnostics, simple implant restorative, and full-arch applications, along with their pitfalls and limitations; and 3) attain solutions to help integrate and master the intraoral scanner in your implant practice.

2:00 – 2:30 pm  
**Enhancing Prosthetic Outcomes With Digital Technology**
Lyndon Cooper, DDS, PhD

Upon completion of this presentation, participants should be able to: 1) describe fundamental principles that influence implant prosthesis longevity; 2) identify digital tools to enhance treatment planning of robust and esthetic prosthesis; and 3) discuss what digital technologies are available to enhance the robust and esthetic qualities of implant prostheses to promote prosthesis longevity.

2:30 – 3:00 pm  
**IOS and In-office CAD/CAM and 3D Printing of Implant Restorations**
Curtis Jansen, DDS

Upon completion of this presentation, participants should be able to: 1) provide a systematic approach on when to consider CAD/CAM implant abutments and restorations in you practice; 2) explain how CAD/CAM restorations can be designed, outsourced, or milled in the office; and 3) determine when to consider printing and/or CAD/CAM in-office.

3:00 – 3:30 pm  
**Managing Complex Cases With Digital Dentistry**
Peter Wöhrle, DMD, MMSc

Upon completion of this presentation, participants should be able to: 1) discuss how digital data acquisition and planning can help establish the potential outcome as well as limits of any proposed treatment; 2) recognize the various entry and exit points of the digital workflow based on preference and availability of digital equipment; and 3) explain how diverse digital technologies can be combined for the treatment of complex cases.

3:30 – 4:00 pm  
**Analog Versus Digital Implant Restorations**
Ueli Grunder, DMD

Upon completion of this presentation, participants should be able to: 1) explain why you don't have to be ashamed if you haven't fully digitally incorporated your practice; 2) describe why the purely digital workflow reaches its limits in the aesthetic zone; and 3) discuss why the financial advantage is not necessarily on the digital side.

4:00 – 4:30 pm  
**Orchestration of Static-guided Surgery, Dynamic Navigation and Guided Prosthesis. A Novel Minimally Invasive Treatment for Edentulous and Terminal Dentition Patients**
Alessandro Pozzi, DDS, PhD

Upon completion of this presentation, participants should be able to: 1) describe the benefits and drawbacks of guided surgery and guided prosthetics for immediate function; 2) recognize the different clinical indications of static template-guided implant surgery and dynamic navigation; 3) differentiate digital versus conventional; and 4) manage the soft tissue interface for pink-free full-arch restoration.
All Annual Meeting registrants are invited to attend the President’s Reception at the Seattle Museum of Flight
7:00 – 10:00 pm, Friday

The President’s Reception is an exciting and fun-filled evening complementary to all registrants. See old friends and connect with new members at this time-honored event.

Exclusively for attendees and guests

The Museum of Flight will open its doors exclusively for our attendees and their registered guests. Join us and experience exhibits that lead you from the beginnings of animal flight to the history of human flight, as well as exhibits that demonstrate our planet’s weather and its effects on modern-day flight technology. As you enjoy the many galleries of the museum, you will enjoy food stations displayed in various locations around the facility as well as live entertainment.

This Smithsonian Affiliate Museum is one of the largest air and space museums in the world, attracting more than 500,000 visitors annually with its expansive glass complex that suspends more than 20 full-size aircraft, and the Red Barn®, the original manufacturing facility of The Boeing Company.

The original papers of the Wright brothers and the one-of-a-kind NASA Space Shuttle Trainer, used to train every space shuttle astronaut since the inception of the program, is a must to see.

Many of the museum’s large aircraft and commercial airliners will be showcased in its Aviation Pavilion, a 9-story, outdoor roofed gallery of 19 rare and unique commercial and military aircraft.

Among those on display will be the only Concorde Supersonic Airliner located on the west coast. Also known as the Alpha Golf, this aircraft set a speed record during its retirement flight to the museum in 2003, including flying supersonic for more than 90 minutes over northern Canada.

The Boeing 787 Dreamliner on display at the museum is the third one ever built. While on exhibit, the Dreamliner’s interior will be partially configured as an airliner and flight test aircraft, with other displays and artifacts.

AO guests will also be able to see the first presidential jet, a specially built Boeing 707-120. This high-speed “flying Oval Office,” which was known by the call sign "Air Force One" when the President was aboard, has carried Presidents Eisenhower, Kennedy, Johnson, and Nixon as well as VIPs such as Nikita Khrushchev and Henry Kissinger.

The museum’s Aviation Pavilion will also include the world’s only presentation of the first Boeing 737 and 747 jets, the extremely rare Douglas DC-2 airliner from the 1930s, three big bombers from World War II, and jet fighters spanning the wars from Korea to the Persian Gulf.

This is an event that you will not want to miss!
**Treatment Planning Decisions**

Saturday, March 21

**8:00 am – noon**

*Moderator – Peter Moy, DMD*

8:00 – 8:30 am  
**Retreatment of Failed Implant Cases**

Costa Nicolopoulos, BDS, FFD (SA) MFOS

Upon completion of this presentation, participants should be able to: 1) identify failed implants requiring removal and replacement; 2) discuss the concept of immediate replacement of failed implants in the same or adjacent site; and 3) describe the protocol of immediate loading of replaced implants.

8:30 – 9:00 am  
**To Save or Remove an Ailing Implant?**

Paul Rosen, DMD, MS

Upon completion of this presentation, participants should be able to: 1) list what factors would support trying to retain implants with severe peri-implantitis; 2) describe what factors should be considered when selecting to remove the implant with severe peri-implantitis; and 3) discuss what options for treatment may be used to save dental implants with severe peri-implantitis.

9:00 – 9:30 am  
**Treatment of Soft Tissue Defects Around Dental Implants**

Anton Sculean, DMD, MS, PhD

Upon completion of this presentation, participants should be able to: 1) discuss the potential causes for facial peri-implant mucosal defects; 2) provide the rationale for treating facial peri-implant mucosal defects along with the indications and contraindications; 3) explain how soft tissue defects/mucosa recession at dental implant can be treated.

9:30 – 10:00 am  
**Using Dental Lasers for Implant Surface Detoxification to Promote Treatment of Peri-implantitis**

Hom-Lay Wang, DDS, MSD, PhD

Upon completion of this presentation, participants should be able to: 1) discuss the most updated recent evidence related to dental lasers; 2) list the protocol of how to use lasers for peri-implant mucositis and peri-implantitis treatment; and 3) determine when and when not to use dental lasers for the management of peri-implant related diseases.

10:00 – 10:30 am  
**Refreshment Break in the Exhibit Hall**

10:30 – 11:00 am  
**Gingival Augmentation Options for Esthetic Zone Implants**

Sonia Leziy, DDS

Upon completion of this presentation, participants should be able to: 1) identify the role of digitally planned treatment by ‘previewing’ soft tissue outcomes; 2) describe the role of new grafting procedures and material alternatives and where they apply... and importantly, where they don’t; and 3) recognize when autogenous tissues must be considered, and how they should be procured for long-term stability.

11:00 am – noon  
**Using Technology for Full-arch Immediate Loading**

Brent Allan, BDS, MDSc  
Glen Liddelow, BDSc, MScD

Upon completion of this presentation, participants should be able to: 1) implement pre-operative 3D photography and dense correspondence planning of facial form and support for predictable esthetics; 2) describe the use of 3D imaging and digital planning for full-arch rehabilitation; 3) explain the use of guided and navigated surgery for full-arch implant placement; and 4) discuss provisional and definitive bridge framework concepts and construction.

**Hands-on Workshop**

**Socket Shield Technique in the Esthetic Zone**

Howard Gluckman, BDS, MChD, PhD

See page 10 for additional information.

**Exhibit Hours**

8:00 am – noon  
**8:30 am – 2:00 pm**
Lunch With the Masters
Saturday, March 21
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
Immediate Provisional Implant Crowns
Todd Schoenbaum, DDS
Immediate implant placement combined with immediate provisional restorations is well-documented to improve the aesthetic outcome of treatment. This presentation will describe the creation of screw-retained immediate implant provisionals in a 3-stage approach for use in the aesthetic zone. Understanding that the provisional restoration has different functions and requirements throughout different stages in the post-surgical timeframe allows for greater success and predictability in treatment. Special attention will be given to emergence profiles, minimizing connections to the implant, gingival contouring and definitive impressions.

Upon completion of this presentation, participants should be able to: 1) explain the rationale for the use of immediate implant provisionals; 2) perform the chairside fabrication of implant provisionals for partially edentulous patients; and 3) describe how to use the provisional to shape the peri-implant tissues and test the four key criteria of aesthetic zone implant prostheses.

LM-2
Lasers for Treating Peri-implantitis
Georgios Romanos, DDS, DMD, PhD
Laser-associated treatment of peri-implantitis will be demonstrated based on multiple in-vitro and clinical studies to verify the correct laser wavelength and setting parameters. This presentation will focus on the variety of laser systems and provide information about the protocol for long-term success.

Upon completion of this presentation, participants should be able to: 1) demonstrate the laser-implant interactions; 2) illustrate clinical cases with long-term success; and 3) provide safety protocols for treatment.

LM-3
Updates in Digital Dentistry – Intraoral Scanning and 3D Printing: What Works and What Doesn’t?
Michael Scherer, DMD, MS
Are you confused about digital dentistry and what to do first? Have you gotten a scanner and are unsure of how to figure out all of the features? This comprehensive clinical-based program will provide a systematic approach aimed at helping clinicians to review current and future trends in digital dentistry. How we utilize digital technology, and what we do to maximize the effectiveness of the latest digital technologies will also be discussed. This presentation will be focused upon clinical workflows and where digital dentistry works, when it falls short, and how we work around challenges.

Upon completion of this presentation, participants should be able to: 1) explain principles, theory, and procedures of intraoral optical scanning technology; 2) utilize optical images to join restorative images on cone-beam CT scans; and 3) examine utilizing digital software to manipulate optical images, prosthetic design and additive manufacturing technology.
Lunch With the Masters

Saturday, March 21

LM-4
Update on Growth Factors for Bone Regeneration
Tara Aghaloo, DDS, MD, PhD

Bone augmentation is an extremely common procedure in implant dentistry, where a large number of implant procedures require some form of grafting. With the advent and FDA approval of multiple sources of growth factors, clinicians and patients are requesting and utilizing growth factors in daily practice. Although singular recombinant (rhBMP-2 or rhPDGF-BB) or combined (platelet concentrates) growth factor products are available, do they predictably enhance quality and quantity of bone and soft tissue? Current literature has identified limitations for use of growth factors including cost, consistent and predictable techniques and preparation, long-term studies, and on-label versus off-label use. This lecture will focus on the state-of-the art and science regarding growth factors for implant dentistry.

Upon completion of this presentation, participants should be able to: 1) explain the indications and contraindications of growth factor use in implant dentistry; 2) identify current literature regarding growth factors to enhance both hard- and soft-tissue healing; and 3) describe the limitations of growth factors for alveolar ridge reconstruction.

LM-5
Implant-supported Telescopic Hybrid Prosthesis: Indications, Contraindications and Challenges
Marco Brindis, DDS

The screw-retained hybrid prosthesis is one of the most popular and successful solutions for the treatment of the edentulous maxilla. Some of the limitations of this type of prosthesis are poor hygiene and expensive maintenance. A more recent alternative is the implant-supported telescopic hybrid prosthesis. This prosthesis provides the benefits of the screw-retained prosthesis yet allowing for better hygiene and less expensive maintenance, however, there are new challenges. This presentation will go over the rationale, indications, and contraindications of this prosthetic option. It will also cover the possible complications with their respective solutions.

Upon completion of this presentation, participants should be able to: 1) recognize the limitations of the screw-retained hybrid prosthesis; 2) discuss the benefits of having a “stable in function” prosthesis that can be removed for better hygiene; and 3) explain the limitations of the telescopic implant prosthesis.
Lunch With the Masters

Saturday, March 21

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-6
Surgical Methods for Managing Peri-implantitis

Bradley McAllister, DDS, PhD

This presentation will describe surgical approaches to implant repair from peri-implantitis destruction. The latest advances for implant detoxification and bone grafting will be reviewed. The etiology and outcomes will be detailed along with the current literature to support the approaches utilized.

Upon completion of this presentation, participants should be able to: 1) discuss the methods available for implant detoxification during implant repair surgery; 2) identify bone and soft tissue grafting choices and the rationale for the different materials; 3) compare what can be accomplished with implant repair; and to identify indications for implant removal, rather than repair; and 4) explain the primary and secondary etiologies of peri-implantitis.

1:00 – 5:00 pm
Hands-on Workshop
Digitally and Biologically Driven for Full-arch Reconstruction
Alessandro Pozzi, DDS, PhD
See page 10 for additional information.

Noon – 1:30 pm
Complimentary Lunch in the Exhibit Hall

1:30 – 2:00 pm
Annual Business Meeting
2:00 – 5:00 pm

Minimally Invasive Versus Reconstruction

Moderator – Dennis Tarnow, DDS

2:00 – 2:45 pm
Regenerative Versus Non-regenerative Solutions for the Atrophic Posterior Maxilla

Tiziano Testori, MD, DDS
Homayoun Zadeh, DDS, PhD

Upon completion of this presentation, participants should be able to: 1) recognize regenerative options (maxillary sinus augmentation; alveolar ridge augmentation) and their indications; 2) list non-regenerative solutions (short implants, tilted implants) and their indications; and 3) utilize risk assessment and patient parameters to formulate a decision tree and select an appropriate treatment solution and required material.

2:45 – 3:30 pm
The Terminal Dentition: Save Versus Extract

Saj Jivraj, BDS, MSEd
Pamela McClain, DDS

Upon completion of this presentation, participants should be able to: 1) list the criteria needed to determine whether a tooth/teeth should be removed or preserved; 2) identify the periodontal defects that may be managed with regenerative techniques; 3) recognize the diagnostic factors important in rehabilitation; and 4) evaluate when bone reduction is necessary for full-arch implant supported treatment.

3:30 – 4:15 pm
The Challenging Atrophic Maxilla: Bone Grafting Versus Zygoma Implants

Edmond Bedrossian, DDS
Gerry Raghoebar, DDS, MD, PhD

Upon completion of this presentation, participants should be able to: 1) recognize the evaluation criteria for treatment of the severely resorbed maxilla; 2) describe the biomechanical principles of the zygoma implant; 3) choose the proper technique for creating a sufficient bone volume for reliable implant placement; and 4) choose the most suitable donor site for bone harvesting with referral to the pre-implant surgery needed.

4:15 – 5:00 pm
The Esthetic Zone Defect: Prosthetic Gingiva Versus Reconstruction

Stephen Chu, DMD, MSD, CDT
Joseph Kan, DDS, MS

Upon completion of the presentation, participants should be able to: 1) identify height and location of the interdental papillae; 2) explain how mini-pink prosthetics can be used hygienically and cosmetically to replace lost gingiva; and 3) identify viability and limitations of orthodontics and surgery to reconstruct missing vertical hard and soft tissue.

5:00 pm
Meeting Adjourns
Saturday, March 21
TEAM Program

8:00 am – 3:30 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.

Moderator – Ricardo Mitrani, DDS, MSD

8:00 – 9:00 am
Referral Relationships: How to Become “The Specialist” in Your Area
Martin Mendelson, DDS, CPD, ELI-MP

Referral relationships are not what they used to be. There are those that you have a deep and loyal relationship with and then there are those that seem to want the world, refer poorly, and their loyalty seems to change with the passing wind. There are even those that send you their loved ones yet somehow do not refer to you their regular patients. There are many competing pressures today. Corporate entities that keep everything in house, the debt of the GP and other economic pressures that influence the GP to place their own implants, as well as itinerant specialists. How do you compete in this environment and thrive? There are answers as there are hundreds of surgical specialists that are growing despite market pressures by approaching their referral relationships differently.

Upon completion of the presentation, participants should be able to: 1) describe how to embrace your referral base so that a focus on their growth leads to yours; 2) explain the difference between marketing and practice growth strategies; 3) define holistic engagement and describe why it is important; and 4) discuss how focusing on the few versus the many makes practical sense.

9:00 – 10:00 am
Aligning the Team to Overcome Obstacles to Treating Complex Cases
Adam McWethy

Over the last decade, dentistry has seen a dramatic decline in insurance reimbursement rates. For a clinician to be successful, it is essential to be able to successfully execute larger complex cases. The challenge is that not only does the doctor need to be able to execute clinically, but the whole office must help patients value treatment which is becoming increasingly more challenging in today’s consumer driven environment. While the concept is simple, executing it can be one of the most overwhelming challenges a clinician faces. Adam provides a clear research-based strategy for your office to communicate with patients that will help increase both patient satisfaction and case acceptance.

Upon completion of the presentation, participants should be able to: 1) discuss the science behind effective communication and how it applies to the dental office; 2) describe each team member’s role in effective communication; and 3) explain strategies to gain team alignment, helping improve office cohesion.

10:00 – 10:30 am
Refreshment Break in the Exhibit Hall

8:00 am – 3:30 pm
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Moderator – Ricardo Mitrani, DDS, MSD
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Moderator – Ricardo Mitrani, DDS, MSD

10:30 – 11:15 am
Influence of Disruptive Innovation in the Dental Marketplace
Ricardo Mitrani, DDS, MSD
One of the few constants that holds true over the years is change. Perhaps now more than ever, the interdisciplinary team needs to spend some time thinking about how changes in the marketplace continuously affect the way we practice and may affect the way we will practice. The term disruptive innovation describes a process whereby a business model with fewer resources is able to successfully challenge established models, delivering more suitable functionality and frequently, at a lower price. This presentation will review the key disruptors and will pose some questions that should be deciphered by the interdisciplinary team.

Upon completion of the presentation, participants should be able to: 1) describe how behavior and consumption affects demographics within a practice; 2) discuss the influence of corporate dentistry in contemporary private practices; and 3) improve communication strategies among staff, interdisciplinary team and patients alike.

11:15 am – noon
The Dark Side of Dentistry
Kyle Stanley, DDS
In the United States, a dentist has the second ranked best job but also comes with one of the top suicide rates of any profession. Dr. Stanley will discuss this taboo topic in relation to stress from highly demanding patients, excessive dental school debt, and many other factors making for a stressful life for dental professionals. By examining this topic, we can help many of our colleagues struggling with mental health issues related to this profession that we love.

Upon completion of the presentation, participants should be able to: 1) discuss this taboo topic; 2) identify stress in most dentists' lives; and 3) describe ways to eliminate stress and enjoy our working lives much more.

Noon – 1:30 pm
Complimentary Lunch in the Exhibit Hall

8:00 am – 3:30 pm
The TEAM Program is for all members of the dental team, including Dentists, Implant Treatment Coordinators, Hygienists and Assistants.

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Moderator – Ricardo Mitrani, DDS, MSD

1:30 – 2:30 pm

Clinical Partnership at Its Finest

Ashley Hoders DMD, MSD
Jill Kinzer, DDS

Patients with congenitally missing teeth routinely present to our office seeking help with tooth replacement. The vast majority of these patients require a team approach to achieve a predictable outcome that will restore esthetics, function, structure, and biology. This presentation will highlight how the team can best support the patient as they navigate through a treatment plan that can sometimes take years to complete.

Upon completion of the presentation, participants should be able to: 1) discuss important treatment planning considerations for congenitally missing teeth; 2) discuss the secret to successfully sequencing and coordinating treatment; and 3) describe the benefits of an interdisciplinary versus multidisciplinary approach.

2:30 – 3:30 pm

Concrete Measures to Prevent and Treat Peri-implantitis

Philippe Khayat, DDS, MSD

Dr. Khayat will address the controversy regarding the role of implant surface characteristics in the development and progression of peri-implantitis. A critical analysis of the current literature will be presented along with significant clinical cases. The use of hybrid implants as a possible preventive measure will be discussed. When peri-implantitis is present, making the most efficient treatment choice is not simple. Implantoplasty, defined as the mechanical modification of the exposed implant surface (removal of all macro and micro-structures), has been proposed. He will describe the technique, instrumentation and present surprising clinical results.

Upon completion of the presentation, participants should be able to: 1) explain the role of implant surface characteristics in the development and progression of peri-implantitis; 2) describe how to perform implantoplasty; and 3) discuss how amazing clinical results can be obtained along with the limitations of this technique.
Saturday, March 21
Laboratory Technician Program

8:00 am – 3:30 pm

Registration for Laboratory Technician 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.

Moderator – Keith Phillips, DMD, MSD, CDT

8:00 – 9:00 am
Digital Workflow Versus Analog Technique for Implant-supported Restoration

Domenico Cascione, CDT

Treatment planning for full-mouth implant restoration is the key to the success of communication between the dental technician and dentist. CAD/CAM technology in implant dentistry has grown exponentially in recent years. With an inexhaustible supply of frameworks, designs, and materials, there are no real guidelines as to the appropriate selection and design of the framework foundation and supported tooth forms. This presentation will provide a decision tree and a new classification system for CAD/CAM framework selection according to case-specific indications. In addition, recommendations for different machinable materials suitable for the framework and the restorative needs will be discussed and described. The ultimate goal is to deliver a long-term and clinically successful prosthesis with regards to esthetics, form, and function. Using simplified, yet perceived as “complex” processes, for the development of traditional metal ceramic technique and monolithic zirconia with a stain/build technique.

Upon completion of the presentation, participants should be able to: 1) present a systematic approach based on the technician's expertise of principles and technique, in order to obtain predictable results on the challenging implant cases; 2) create a decision tree for CAD/CAM framework selection according to case-specific indications with recommendations for different machinable materials; and 3) describe the importance of proper porcelain build-up technique for a natural esthetic outcome comparing to new stain build-up technique for a monolithic zirconia using a PRODIGIO colors.

9:00 – 10:00 am
Management of Restorative Material for Fully Edentulous Implant Cases

Yoshi Goto, DDS, MSD

Since digital technology has changed how we view implant treatment, we get an opportunity to deal many more restorative materials. This presentation will review current restorative material features and how they behave clinically as well as provide the criteria for selecting the successful combination of materials based on past experience.

Upon completion of the presentation, participants should be able to: 1) discuss the pros and cons of different materials; 2) prevent clinical complications of the full edentulous prosthesis; and 3) describe the best combination of prostheses maxilla and mandible.

10:00 – 10:30 am
Refreshment Break in the Exhibit Hall

Registration for Laboratory Technician Program Only: Members: $125 – Non-Members: $150
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Moderator – Keith Phillips, DMD, MSD, CDT
Technology is evolving faster than at any other time in history, but when every lab is a "digital lab" the small things are actually the most crucial. "Digital IQ" is the measure of a lab's ability to navigate the most current CAD/CAM landscape and to be a resource for clinicians and staff, providing comprehensive case support, education and training on new materials, digital technology application/utilization, and personalized customer support experiences.

This course discusses operating and growing a dental lab in today’s fast changing marketplace. CAD/CAM production processes, the digital workflow, customer support and education, strategies for successfully guiding dentists making the transition to digital impressions, and more will be covered.

Upon completion of the presentation, participants should be able to: 1) explain the differentiating characteristic of the second phase of the digital evolution of our industry; 2) describe why a dental lab’s Digital Strategy is vital for establishing a dental client’s perception of Digital IQ; and 3) discuss two of the most important factors for dentists to consider when selecting an intra oral scanner (IOS).

In a number of clinical scenarios, implant restorations may have to be retreated due to the cosmetic deficiencies, open interproximal contacts, changes in occlusion and biological or mechanical complications. Implant retreatment poses unique challenges such as finding relevant records, identifying older implant systems, and removing existing restorations. The goal of this presentation is to highlight some of these challenges and present possible solutions in the retreatment process.

Upon completion of the presentation, participants should be able to: 1) discuss the limitations of implant treatment and why retreatment will be necessary in the course of the implant restoration lifespan; 2) explain the risks of implant retreatment; and 3) describe the restorative techniques and clinical tips in implant retreatment.
Saturday, March 21
Laboratory Technician Program

8:00 am – 3:30 pm
Registration for Laboratory Technician Program Only: Members: $125 – Non-Members: $150
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Moderator – Keith Phillips, DMD, MSD, CDT

1:30 – 2:30 pm
Telescopic Renaissance in Implant Dentistry ★
Arian Deutsch, CDT, DTG

Telescopic implant solutions are gaining popularity in dentistry, so we need to understand why from the perspective of the clinician, the dental technician, and the patient. Some of the issues pertaining to screw-retained acrylic hybrid and zirconia cases will be discussed. This program covers the basics of telescopic and conical connection implant prostheses and explains the components and clinical steps necessary to create these types of implant/tissue borne prostheses with success. Insight into newer material selections when it comes to these types of removable, yet stable and retentive implant prosthetic solutions will also be reviewed.

Upon completion of the presentation, participants should be able to: 1) explain why telescopic implant solutions are an ideal alternative to screw-retained solutions; 2) list the three components of telescopic implant solutions and clinical implications; and 3) describe material selection and clinical steps for telescopic and conical implant restorations.

2:30 – 3:30 pm
Understanding Materials in a Digital World: Advantages, Limitations, Options ★
Tal Morr, DMD, MSD

Prosthetic dentistry has changed dramatically since the advent of digital dentistry and CAD/CAM technology. Not only has there been an improvement in the materials, but the design process has become easier and more superior, and in turn, has improved the outcomes in most phases of restorative dentistry such as provisionalization, removable prosthodontics, and fixed prosthodontics. Although this technological change is increasing at an exponential rate, it is still not a perfect system. There are still some limitations to the technology that need to be improved and these limitations need to be considered and anticipated when planning and executing certain prosthetic procedures. Understanding the advantages and limitations of this technology and materials will enable the dentist and technician to be more predictable and have improved outcomes.

Upon completion of the presentation, participants should be able to: 1) compare analog versus digital; 2) discuss the advantages of digital dentistry; 3) describe how to manage the limitations of digital dentistry; and 4) explain material options and selection.
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 October 24, 2019.

- 3D Diagnostix (3DDX)
- 3Shape
- A. Titan Instruments
- Absolute Dental Services
- ACE Surgical Supply Company
- ACTEON North America
- AD Surgical
- Alphaeon Credit
- Alpine Pharmaceuticals
- American Board of Oral Implantology
- Anatotemp
- Aseptico
- Benco Dental
- BioHorizons
- Blue Sky Bio
- Boyd Industries, Inc.
- Carestream Dental
- ClaroNav
- CleanImplant Foundation CIF GmbH
- ClearChoice Management Services
- Collagen Matrix
- Cool Jaw By Medico International
- Dental Arts Laboratories, Inc.
- Dental USA Inc
- Dentium USA
- Dentsply Sirona
- Designs for Vision, Inc.
- Digital Dental Laboratory
- DoWell Dental Products, Inc.
- DSD USA LC
- DSN Software, Inc.
- Fotona, LLC
- Garfield Refining Company
- Geistlich Biomaterials
- Glustitch, Inc
- H & H Company
- HansBiomed USA, Inc.
- Hi Tec Implants / Dental Implant Technologies
- Hiossen Inc
- Hu-Friedy Manufacturing Company
- Hybridge
- Implant, Ltd.
- International Congress of Ceramic Implantology
- ITI International Team for Implantology
- J. MORITA USA, INC.
- JK Dental Group
- Karl Schumacher Dental, LLC
- KAT Implants
- Keystone Dental
- KLS-Martin
- Laschal
- Lighthouse 360, a Henry Schein One Company
- LumaDent, Inc.
- LYNCH BIOLOGICS LLC
- Maxxeus Dental
- Medtronic
- Meisinger USA
- Millennium Dental Technologies, Inc.
- Moravision, Inc.
- NeoBiotech Implant
- Neocis, Inc.
- Neoss
- Nobel Biocare
- Orapharma, Inc.
- Osada, Inc.
- Osstell Inc
- Osteogenics Biomedical
- PBHS, Inc.
- Piezosurgery Incorporated
- Planmeca
- PREAT Corporation
- Q-Optics & Quality Aspirators Inc.
- Quintessence Publishing Co, Inc.
- RGP Dental
- Ritter Implants
- Rocky Mountain Tissue Bank
- ROE Dental Laboratory
- Ruetschi Technology AG
- S.I.N. Implant System
- Salvin Dental Specialties, Inc.
- Smilez Simon S.L. (Dentalplay)
- Snap On Optics
- Snoasis Medical, LLC
- Southern Implants North America
- Straumann
- SurgiTel
- TePe Oral Health Care, Inc
- Thommen Medical
- TruAbutment, Inc.
- Ultralight Optics Inc.
- Unicare Biomedical, Inc.
- Versah, LLC
- Weave
- Western Society of Periodontology
- XEMAX Surgical Products
- X-Nav Technologies, LLC
- Xpdent Corp
- Zest Dental Solutions
- Zimmer Biomet Dental
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<tr>
<td>Marcus Abboud, DMD, PhD</td>
<td>University of Kentucky, Lexington, KY</td>
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<tr>
<td>Tara Aghaloo, DDS, MD, PhD</td>
<td>UCLA, Los Angeles, CA</td>
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<tr>
<td>Brent Allan, BDS, MDSc</td>
<td>Private Practice, Perth, Australia</td>
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<td>Bilal Al-Nawas, MD, DDS</td>
<td>University Medical Center, Mainz, Rhineland-Palatinate, Germany</td>
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<td>Wael Att, DDS, DMD, PhD</td>
<td>Tufs University, Boston, MA</td>
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<td>Edmond Bedrossian, DDS</td>
<td>Private Practice and University of the Pacific, San Francisco, CA</td>
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<td>Nitzan Bichacho, DMD</td>
<td>Private Practice, Hebrew University and Hadassah, Tel Aviv, Isreal</td>
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<td>Markus Blatz, DMD, PhD</td>
<td>University of Pennsylvania, Philadelphia, PA</td>
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<td>Michael Block, DMD</td>
<td>Private Practice, Metairie, LA</td>
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<td>Marco Brindis, DDS</td>
<td>Louisiana State University, New Orleans, LA</td>
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<td>Domenico Cascione, CDT</td>
<td>Private Practice, Santa Monica, CA</td>
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<td>Stephen Chu, DMD, MSD, CDT</td>
<td>Private Practice and New York University, New York, NY</td>
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<tr>
<td>Christian Coachman, DDS, CDT</td>
<td>Private Practice, Sao Paulo, SP, Brazil</td>
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<tr>
<td>Lyndon Cooper, DDS, PhD</td>
<td>University of Illinois at Chicago, Chicago, IL</td>
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<tr>
<td>Lee Culp, CDT</td>
<td>Private Practice, Cary, NC</td>
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<tr>
<td>Hugo De Bruyn, DDS, MSc, PhD</td>
<td>Radboud University, Nijmegen, The Netherlands and Ghent University, Ghent, Belgium</td>
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<td>Arian Deutsch, CDT, DTG</td>
<td>Private Practice, Sun City West, AZ</td>
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<td>Jeffrey Ganeles, DMD</td>
<td>Private Practice, Boca Raton, FL, Nova Southeastern University, Davie, FL, and Boston University, Boston, MA</td>
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<td>German Gallucci, DMD, PhD</td>
<td>Harvard University, Boston, MA</td>
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<td>Antoanela Garbacea, DDS, MSD</td>
<td>Private Practice, Laguna Hills, CA and Loma Linda University, Loma Linda, CA</td>
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<tr>
<td>Howard Gluckman, BDS, MChD, PhD</td>
<td>Private Practice and Implant and Aesthetic Dentistry Academy, Cape Town, South Africa</td>
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<tr>
<td>Yoshi Goto, DDS, MSD</td>
<td>Private Practice, University of Southern California, Los Angeles, CA</td>
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<tr>
<td>Ueli Grunder, DMD</td>
<td>Private Practice, Zollikon, Switzerland</td>
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<td>David Guichet, DDS</td>
<td>Private Practice, Orange, CA</td>
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<td>Robert Guldberg, PhD</td>
<td>University of Oregon, Portland, OR</td>
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<td>Arndt Happe, DDS, PhD</td>
<td>Private Practice, Muenster, Germany</td>
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<td>Alan Herford, DDS, MD</td>
<td>Loma Linda University, Loma Linda, CA</td>
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<td>Federico Hernández-Alfaro, MD, DDS, PhD</td>
<td>Private Practice, and Universitat Internacional de Catalunya, Barcelona, Spain</td>
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<tr>
<td>Ashley Hoders, DMD, MSD</td>
<td>Private Practice, Tacoma, WA</td>
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<td>Curtis Jansen, DDS</td>
<td>Private Practice, Monterey, CA</td>
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<td>Saj Jivraj, BDS, MSEd</td>
<td>Private Practice and University of Southern California, Oxnard, CA</td>
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<td>Darnell Kaigler, DDS, PhD</td>
<td>University of Michigan, Ann Arbor, MI</td>
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<tr>
<td>Joseph Kan, DDS, MS</td>
<td>Private Practice and Loma Linda University, Loma Linda, CA</td>
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<tr>
<td>Michitsuna Katafuchi, DDS, MSD, PhD</td>
<td>Private Practice, Tacoma, WA</td>
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<tr>
<td>Philippe Khayat, DDS, MSD</td>
<td>Private Practice, Paris, France</td>
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<tr>
<td>Jill Kinzer, DDS</td>
<td>Private Practice, Gig Harbor, WA</td>
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<tr>
<td>Bach Le, DDS, MD</td>
<td>Private Practice and University of Southern California, Whittier, CA</td>
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<tr>
<td>Marta Revilla León, DDS, MSD</td>
<td>Texas A&amp;M University, Dallas, TX</td>
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<tr>
<td>Sonia Lezly, DDS</td>
<td>Private Practice, North Vancouver, BC, Canada</td>
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<tr>
<td>Glen Liddelow, BDSc, MScD</td>
<td>Private Practice and University of Western Australia, Perth, Australia</td>
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<tr>
<td>Bryan Limmer, DMD, MS</td>
<td>Private Practice, Wheat Ridge, CO</td>
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<tr>
<td>Mark Ludlow, DMD, MS</td>
<td>University of South Carolina, Charleston, SC</td>
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<tr>
<td>Bill Marais, RDT, DTG</td>
<td>Private Practice, Portland, OR</td>
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<tr>
<td>Bradley McAllister, DDS, PhD</td>
<td>Private Practice and Oregon Health Sciences University, Portland, Oregon</td>
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<tr>
<td>Pamela McClain, DDS</td>
<td>Private Practice, Aurora, CO</td>
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<tr>
<td>Adam McMethylene</td>
<td>Private Practice, Phoenix, AZ</td>
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<tr>
<td>Martin Mendelson, DDS, CPD, ELI-MP</td>
<td>Private Practice, Phoenix, AZ</td>
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<tr>
<td>Ricardo Mitrani, DDS, MSD</td>
<td>Private Practice, Mexico City, Mexico</td>
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Speaker Index

Catherine Mohr, MD, MS
Intuitive Surgical, Mountain View, CA

Mark Montana, DDS
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Private Practice, Athens, Greece

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Private Practice, Trinity, FL

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Kyle Stanley, DDS
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Benjamin Wu, DDS, PhD
UCLA, Los Angeles, CA

Homayoun Zadeh, DDS, PhD
Private Practice, Woodland Hills, CA
# Annual Meeting Registration

**Academy of Osseointegration Annual Meeting**  
**March 18 – 21, 2020 • Seattle, WA**

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

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<thead>
<tr>
<th>First name</th>
<th>Family name</th>
<th>Degree</th>
<th>NPI # (U.S. Only)</th>
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<tr>
<th>Office Address</th>
<th>City</th>
<th>State</th>
<th>Zip</th>
<th>Country</th>
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<tr>
<th>E-mail Address</th>
<th>Office Phone No.</th>
<th>Office Fax No.</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)
- ☐ Dental Public Health
- ☐ Other (please specify)

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

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<tr>
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<tbody>
<tr>
<td><strong>AO MEMBER</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Doctor (DDS, DMD)</td>
<td>$499</td>
<td>$599</td>
<td>$749</td>
</tr>
<tr>
<td>Premier Member Doctor</td>
<td></td>
<td></td>
<td>closed</td>
</tr>
<tr>
<td>Note: Early registration only – no registrations after January 13. <em>(see page 4 for details)</em></td>
<td>$695</td>
<td>closed</td>
<td>closed</td>
</tr>
<tr>
<td>Affiliate/Allied Staff</td>
<td>$215</td>
<td>$265</td>
<td>$415</td>
</tr>
<tr>
<td>(CDT, MDT, RDH, ROT, Office Staff)</td>
<td>Note: Each registrant must be their own member, not staff of an AO member.</td>
<td></td>
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</tr>
<tr>
<td>Student</td>
<td>$125</td>
<td>$150</td>
<td>$175</td>
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<tr>
<td><strong>NON-MEMBER</strong></td>
<td></td>
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<tr>
<td>Doctor (DDS, DMD)</td>
<td>$1,100</td>
<td>$1,200</td>
<td>$1,345</td>
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<tr>
<td>Allied Staff (CDT, MDT, RDH, ROT, Office Staff)</td>
<td>$295</td>
<td>$345</td>
<td>$495</td>
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<td>Student (letter from Chief of Service required)</td>
<td>$350</td>
<td>$400</td>
<td>$550</td>
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<tr>
<td>Non-Doctor (CEO, PharmD, PhD, Scientist, Other)</td>
<td>$290</td>
<td>$340</td>
<td>$490</td>
</tr>
<tr>
<td>Spouse/Guest (limit two guests per registrant)</td>
<td>$100 ea.</td>
<td>$125 ea.</td>
<td>$150 ea.</td>
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**Guest Name** _______________________  **Guest Name** _______________________

*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/become-a-member/.*

**ANNUAL MEETING CONFERENCE RECORDING**

- ☐ Three year online subscription  
  **Member** $225  **Non-Member** $275

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**Deadline for Advance Registration: February 24, 2020 • Register online at osseo.org**
Annual Meeting Registration

Pre-conference Sessions (Wednesday, March 18)

Participants must be registered for the Annual Meeting in order to register for the Pre-conference Sessions

Sedation: The Good, The Bad & The Ugly (8:00 am – noon)
Members $250; Non-Members $300; Student Members $50; Student Non-Members $100 $ ________________

Complete Arch Fixed Implant Rehabilitation – A Restorative Perspective (1:00 – 5:00 pm)
Members $250; Non-Members $300; Student Members $50; Student Non-Members $100 $ ________________

Discount if taking both morning and afternoon sessions:
Members $400; Non-Members $500; Student Members $100; Student Non-Members $200 $ ________________

Hands-on Workshops (Members $500 Non-Members $600)

Friday, March 20

HOW-1: Maxillary Sinus Augmentation: Lateral Approach (8:00 am – noon) $ ________________

HOW-2: Immediate Provisional Restoration of Post-extraction Socket Implants (1:00 – 5:00 pm) $ ________________

Saturday, March 21

HOW-3: Socket Shield Technique in the Esthetic Zone (8:00 am – noon) $ ________________

HOW-4: Digitally and Biologically Driven for Full-arch Reconstruction (1:00 – 5:00 pm) $ ________________

TEAM Program (Saturday, March 21, 8:00 am – 3:30 pm)

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 21, 8:00 am – 3:30 pm)

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 20, 7:00 – 8:00 am)
Members $125 Non-Members $150 Please rank in order of preference:
1st choice ___________________ 2nd choice ___________________ 3rd choice ___________________ $ ________________

Young Clinicians’ Luncheon (Friday, March 20, Noon – 1:30 pm) □ Yes $0

Lunch With the Masters (Saturday, March 21, Noon – 1:30 pm)
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 24, 2020
Register online at osseo.org

Total from this page $ ________________
Total from previous page $ ________________

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

CC Number Exp Date Security Code

Name on card Signature

*Make checks payable to AO in U.S. funds only.
• Non-U.S. registrations: payable by credit card only.
• All refund requests must be made in writing by February 24, 2020.
• Cancel before February 24, 2020 to qualify for a refund (less $75 fee).
• No refunds on cancellations after February 24, 2020.

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.

By registering for this meeting, I hereby acknowledge and authorize (opt-in) to receive future correspondence from the AO and its authorized agents related to the meeting.
Hotel Registration Information

Academy of Osseointegration Annual Meeting
March 18 – 21, 2020 • Seattle, WA

For best availability, make your reservation online at:

Internet:  https://compass.onpeak.com/e/012606022/
Phone:  855-904-2787 (US & Canada)
        312-527-7300 (International)
        Monday – Friday, 9:00 am– 6:00 pm ET

You can also contact AO housing via our support center by emailing AOhotels@onpeak.com

**Hotel reservations / rate availability are not guaranteed after the room block is full or after February 17, 2020.**

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.

**WARNING!** onPeak is the only official hotel provider associated with the AO Annual Meeting. We have received reports that other companies are posing as official travel vendors for the Annual Meeting and may contact you offering hotels for your trip. They are not endorsed by or affiliated with the show and entering into financial agreements with such companies is not advised.

DEADLINE FOR HOTEL RESERVATIONS IS MONDAY, FEBRUARY 17, 2020.
You place it.
We keep it in place. **Exactly.**

VISIT US AT
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501 & 507
TO LEARN MORE!

EXACTLY
like no other.

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