By AO Staff

First-hand learning that will help you gain your professional edge. Practice with the latest technologies in dental implant technology. A one-on-one environment with the people who have the answers, experience, and expertise to help you upgrade your surgical and restorative skills.

All of this is waiting for you as part of your annual meeting experience with the Academy of Osseointegration’s (AO) hands-on workshops to be held in Los Angeles on Feb. 28.

AO offers myriad hands-on workshops to fit the multi-disciplinary nature of its annual meeting and the background of its attendees.

Please note, once you find the hands-on workshop(s) that best fit your educational goals and professional background, you will not want to hesitate to register, as these limited-attendance and very popular sessions tend to fill up quickly.

The list of 2018 workshop topics and presenters will include:

**HOW-1**
Please note this full-day hands-on workshop session will be conducted at Nobel Biocare headquarters in Yorba Linda, Calif. Transportation to and from the AO meeting hotels and the Nobel Biocare facility, as well as refreshment breaks and lunch, will be provided.
- “The All-on-4 Treatment Concept for the Resorbed Maxilla—Highlight on Implant Design Evolution,” 9 a.m.-noon, Paulo Malo, DMD

**HOW-2**
- “Edentulous Treatment Strategies: One Size Fits None,” 9 a.m.-noon, Bryan Limmer, DMD, MS (Supported by a grant from Dentsply Sirona)

**HOW-3**
- “Management of Anterior Alveolar Defects: The Challenging Cases in the Esthetic Zone,” 9 a.m.-noon, Isabella Rocchietta, DDS (Supported by a grant from Geistlich)

**HOW-4**
- “Screw-Retained, Site Specific Immediate Implants for Mid-Facial Tissue Preservation,” 9 a.m.-noon, Harold Baumgarten, DMD, and Stephen Chu, DMD, MSD, CDFA (Supported by a grant from Southern Implants)

**HOW-5**
- “Digital Workflow: Options

The remainder of the hands-on workshops will be conducted in half-day sessions and located in the West Building of the Los Angeles Convention Center.

**See HANDS-ON, page B2**

Achieve professional excellence with AO’s hands-on workshops

Six clinicians were recently recognized for their work to develop years of high-quality dental implant educational sessions for the American Association of Oral and Maxillofacial Surgeons (AAOMS).

The association’s board of trustees presented a special citation award to the AAOMS subcommittee on dental implant education during the 25th annual Dental Implant Conference, held in Chicago during December.

The subcommittee planned 2017 session topics ranging from replacing congenital missing teeth to applying digital technology in practices. The conference featured a renowned faculty of more than 30 experts presenting to more than 1,000 OMSs, staff, and restorative dentists in didactic sessions and workshops.

The subcommittee also plans dental implant sessions for the AAOMS Annual Meeting, Scientific Sessions and Exhibition — one of the largest and most comprehensive educational conferences in the world developed exclusively for oral and maxillofacial surgeons and staff.

The subcommittee members include:
- Michael S. Block, DMD, of Metairie, La.
- Bach T. Le, DDS, MD, of Whittier, Calif.
- Jay P. Malmquist, DMD, of Portland, Ore.
- Richard J. Martin, DDS, of Dallas
- Craig M. Misch, DDS, MDS, of Sarasota, Fla.
- Peter K. Moy, DMD, of Los Angeles

“AAOMS is honored to have such a dedicated group leading our dental implant education,” said AAOMS Immediate Past President Douglas W. Fain, DDS, MD, FACS. “Their diligent work sets standards of excellence in education and training for OMSs and their restorative teams.”

(Source: AAOMS)
Plan your annual meeting schedule today to include hands-on workshops as part of your registration for AO’s 2018 Annual Meeting. Advance registration discounts end Feb. 5; these will save you $150. At the same time, be sure to also make your hotel reservations to receive AO’s special convention hotel rates and best availability.

Please note the AO hands-on workshops are available for an additional registration cost. Workshops will be held in the West Building of the Los Angeles Convention Center, with the exception of the workshop facilitated by Nobel Biocare. Please see the meeting website for all the details at http://meetings.osseo.org/2018/schedule/hands-on-workshops/.

You’ll leave the AO’s Hands-on Workshops with new skills and techniques.
A retrospective, single-center clinical evaluation using PEEK frameworks for full-arch implant-supported prosthetics

Commentary author: Marcus Jarman-Smith, PhD, Invibio Biomaterial Solutions
Original presenter: Dr. Bernd Siewert, Clinica Somosaguas, Madrid, Spain
Keynote speech: B. Siewert (2017), PEEK in Dental Prosthetics (PEEK in der zahnärztlichen Prothetik Warum? Wann? Wie?), SSO Dental Meeting, Lugano, Switzerland, Feb 11, 2017
Level of evidence: Level 3 Retrospective Cohort Study

Summary
There is increased interest in the long-term clinical outcomes and quality of life of patients treated with a high-performance polymer for the framework material for full-arch implant-supported dental prosthetics, rather than the traditionally used metal or ceramic materials.

Dr. Siewert reported on his retrospective, single-center clinical study using JUVORA frameworks for full-arch implant-supported prosthetics, made from Invibio’s PEEK-based polymer. Siewert conducted clinical and radiological assessments to measure the survival rates of the dental implants and prosthetics, rate of bone loss and the incidence of any biological complications. In addition, scores were collated to measure the oral health and patient quality of life and the satisfaction of patients fitted with a PEEK-based prosthetic.

The retrospective data review investigated 21 patients, which corresponded to a total of 96 dental implant fixtures. Patients were treated with full-arch implant-supported prosthetics manufactured with an internal substructure made from Invibio’s PEEK-based polymer.

The average follow-up post-prosthetic placement was 56 months (four years, eight months), ranging from the shortest time of one year and two months to the longest time of eight years and nine months.

Key findings
Dental implant fixture survival rate was reported as high as 99 percent, and PEEK-based prosthetic survival rate was 100 percent versus 89-95 percent1,2 and 92 percent3,4 for titanium5 respectively.

An average bone loss of 0.2 mm (+ 1.0) on the mesial aspect and 0.3 mm (+ 0.8) on the distal aspect was observed versus 1-1.5 mm6,7 for titanium. Patient peri-implantitis incidence was low at 1 percent versus 10 percent1,8 for titanium.

The mean total oral health and patient quality of life score was 3.1 points (+ 3.3), with patient satisfaction deemed “extremely satisfactory.”

For titanium, the score averaged at 15.9,10 overall. When compared with the literature values of titanium, JUVORA frameworks for full-arch implant-supported dental prosthetics showed:

- Up to 10 percent better implant survival rate
- Up to five times less bone loss
- Up to 10 times less incidence of peri-implantitis
- Up to 8 percent better prosthetic survival rate
- Nearly three times better mean total score for oral health and patient quality of life

Commentary
These results from a retrospective, single-center study are limited, but do provide some initial clinical insight into the long-term outcomes and potential benefits of using a more shock absorbing high-performance polymer substructure for full-arch implant borne prosthetics.

References available upon request from the publisher.

About Dr. Siewert
Dr. Bernd Siewert has been in private practice for more than 20 years. Since 2007, he’s been an instructor at Germany’s International Training Center for Dental Implantology (IFZI) and authored and spoken internationally about his specialty, implantology.

About the author
Dr. Marcus Jarman-Smith, PhD, is a strategic marketing manager with Invibio Biomaterial Solutions. He has worked specifically on medical applications for the high-performance polymer PEEK (polyetheretherketone) for dental applications for more than a decade. In 2001, he received a PhD in chemical engineering, tissue engineering and biomaterials from the University of Bath, in the United Kingdom.
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