

IMPLANT TRIBUNE

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AO heads to Tampa

Group's scientific program emphasizes quality, advantage of interdisciplinary team approach

The emphasis in the scientific program for the Academy of Osseointegration's 28th Annual Meeting in Tampa, Fla., from March 7-9, will be on achieving quality and leveraging the advantage conferred by the interdisciplinary team approach.

The annual meeting program will focus on the future with the theme, "Moving Forward: Evidence, Experience, Excellence." The opening symposium on Thursday, March 7, features some of the biggest names in implant dentistry.

Leading off will be researcher/clinician Lyndon F. Cooper, DDS, PhD, Chapel Hill, N.C., on the topic, "Translating Evidence Into Treatment Predictability: What Evidence Do We Have? What Do We Need?"

Cooper is Stallings Distinguished Professor of the University of North Carolina Department of Prosthodontics and a member of the department of biochemistry and biophysics in the UNC School of Medicine. He is director of the Bone Biology and Implant Therapy Laboratory.

Cooper's presentation will examine the current status of dental implant therapy and attempt to interrogate the levels of treatment predictability that exist for these different therapies. His

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Tampa, Fla., will be the site of the Academy of Osseointegration's 28th annual meeting titled, 'Moving Forward: Evidence, Experience, Excellence.' Photo/www.sxc.hu

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Laser polishing accelerates surface finish of implants, researchers say

By Dental Tribune International

AACHEN, Germany — Researchers have developed a flexible and cost-effective apparatus to polish implants automatically. The project team has managed to reduce the time needed to process dental and blood-carrying implants while maintaining their high bio- and haemocompatibility.

The surface quality of an implant plays a significant role if it is to be used in the body successfully. For example, bone implants require a porous structure so that cells can grow into them well. Other

implants, however, need as smooth a surface as possible to prevent bacteria from attaching to them and the surrounding tissue from being damaged.

The MediSurf project has made these kinds of implants the object of its research. The seven partners of the project, funded by the German Federal Ministry of Economics and Technology and led by the Fraunhofer Institute for Laser Technology ILT, recently presented their research results in Aachen.

The main focus was the optimization of the surface of the titanium ventricular assist system INCOR, made by Berlin

Heart. The project aimed at reducing production time while guaranteeing high haemocompatibility. This means that the implant should leave blood corpuscles undamaged, and corpuscles should be prevented from settling on the implant as far as possible. Blot clots are prevented from forming, thus significantly reducing the risk of heart attacks and strokes.

Initially, the researchers had to establish whether laser-based polishing of the surface could obtain the same level of haemocompatibility as with conven-

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Clark M. Stanford will speak during the opening symposium at the AO annual meeting in Tampa. Photo/Provided by the University of Iowa, College of Dentistry

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current clinical interests focus on the development of cell based tissue engineering for clinical bone formation and the immediate loading of dental implants.

Other opening symposium topics and speakers are:

- “Practical and Predictable Surgical Approaches in the Esthetic Zone: Multiple Challenges,” by Daniel Buser, DDS, DMD, of Bern, Switzerland. Buser will present surgical approaches in the esthetic zone developed at the University of Bern, which offer successful outcomes with high predictability.

- “The Dental Implant: What Are the ‘Right’ Implants for Today’s Indications? Surfaces, Connections, and Flexibility,” by Clark M. Stanford, DDS, PhD, of Iowa City, Iowa. His presentation will show how the predictability of the process of

tooth replacement with dental implants is becoming enhanced through the applications of new technologies expanding on our long-established protocols for implant therapy.

- “Implant Dentistry: The Interdisciplinary Advantage,” by Richard D. Roblee, DDS, MS, orthodontist from Fayetteville, Ark; Edward P. Allen, DDS, PhD, periodontist from Dallas; and Robert R. Winter, DDS, prosthodontist from Scottsdale, Ariz. Their presentation will focus on utilizing an interdisciplinary approach to maximize comprehensive results in implant dentistry.

The program retains many very popular features, beginning with the Corporate Forums Thursday morning. This year’s participants are BioHorizons, BIOMET 3i, DENTSPLY Implants, Geistlich Biomaterials, Hiossen, Millennium Dental Technologies, MIS, Nobel Biocare, Os-

teogenics, Osteohealth, Straumann USA and Zimmer Dental.

Poster presentations will be introduced Thursday afternoon, just before the welcome reception held in the exhibit area. The popular, intimate round-table clinics and limited-attendance lectures with leading experts will be Friday morning. Oral abstract research presentations will be also be presented Friday morning, and clinical innovations presentations will be Friday afternoon, preceding the president’s reception to be held at the Florida Aquarium.

The Allied Staff Program and the Laboratory Technician Program will be held Saturday. The popular “Lunch & Learn Sessions” return Saturday at noon.

Saturday’s Closing Symposium addresses the topic, “Where Are We Today and What Does the Future Hold?” Speakers will address esthetic parameters of tooth replacement, the role of team in implant dentistry, peri-implant tissue management and the evolving role of radiology in improving predictability.

More speakers and topics include:

- Urs C. Belser, DMD, of the University of Geneva, Geneva, Switzerland, “Contemporary Implant-Assisted Options for Patients with High Esthetic Demands: Where Are We Today and Where Will We Be Tomorrow?” Belser will discuss the rationale for an early placement/early loading concept for replacement of extracted teeth.

- David A. Garber, DMD, Henry Salama, DMD, and Maurice A. Salama, DMD, of Atlanta, on “What Was, What Is and What Will Be: The Evolving Role of Team in Implant Dentistry.” Their discussion will focus on a defined algorithm for the interdisciplinary team and will cover the diagnosis of deficiencies and the varied treatment options in detail.

- Joseph Y.K. Kan, DDS, MS, of Loma Linda, Calif., on “Peri-Implant Tissues in the Esthetic Zone: What Do We Really Know and What Can We Realistically Achieve?” Focusing on current implant treatment philosophies and methodologies, Kan will cover diagnosis and treatment planning, surgical, prosthetic management of soft and hard tissue for optimal anterior implant esthetics.

- William C. Scarfe, DDS, BDS, MS, of Louisville, Ky., on “The Evolving Role of Radiology in Improving Treatment Predictability in Implant Therapy.” Scarfe’s presentation will provide a closer look at how CBCT imaging will provide the 3-D framework for implant therapy totally within the digital domain, thereby improving treatment predictability.

Friday morning’s program features the highly successful parallel surgical and restorative tracks, annual meeting organizers said. Speakers will include Drs. Craig Misch, Sarasota, Fla.; Robert Marx, Miami; Paul Fugazzotto, Milton, Mass.; Eduardo Lorenzana, San Antonio, Texas; Dennis Shanelec, Santa Barbara, Calif.; Hideaki Katsuyama, Yokohama, Japan; Thomas Wilson, Dallas; Brody Hildebrand, Dallas; Ronald Jung, Zurich, Switzerland; Hans-Peter Weber, Boston; Stephen Parel, Dallas; German Gallucci, Boston; Mario Rocuzzo, Torino, Italy; and J. Robert Kelly, Farmington, Conn.

The program was created by the 2013 Annual Meeting Committee, chaired by Dr. Dean Morton, Louisville, Ky.

(Source: Academy of Osseointegration)

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AO's Allied Staff Education Program: The patient experience

By Anita H. Daniels, RDH

From the moment a new patient walks into the practice, members of the dental office staff play an indispensable role in learning about the past dental histories of patients and what kind of smile that person would like to have. They have an opportunity to educate patients about options for treating missing or hopeless teeth and/or replacing ill-fitting removable prostheses.

The patient experience starts with the

receptionist (the face of the practice at this point), who can make patients comfortable with the knowledge that they are in the right place and will be taken care of. Receptionists must have the skill sets to graciously pass the patients off to the assistants and/or implant treatment coordinator. This transfer must be done professionally and with great care, such that patients continue to feel that they are in the right place.

Assistants generally walk the patient through the exam process and should

educate the patients as to what they can expect: medical and dental histories, digital radiographs, complete physical examination, assessment, diagnosis and treatment plan options.

Treatment coordinators, depending on the particular practice, will then be called upon to explain the diagnoses and describe the benefits and limitations of the treatment plan options. Dental hygienists, who develop trust and rapport with their patients over time, can further support this process by educating them

about the options that are now available.

An extraordinary opportunity for staff members to enhance their skills will unfold Saturday, March 9, at the dedicated Allied Staff Education Program that is a part of this year's 28th AO Annual Meeting in Tampa, Fla. The program is intended for implant treatment coordinators, dental hygienists, assistants and business office staff/receptionists.

The day will start with Dr. Carl Drago's overview of comprehensive care needs of "dentally exhausted" patients. Although many dental practitioners have spent their careers "saving" debilitated teeth, when ongoing expensive and time-consuming dental care continues to yield less than optimal results, patients may fare better by having their compromised teeth extracted, followed by immediate placement of implants and full-arch restorations. This approach represents a significant paradigm shift from "traditional" dentistry. Drago, of Waukesha, Wis., will discuss how office and clinical staff can interact with and support patients in their decisions regarding full-arch implant-supported restorations.

A significant number of patients do not warrant full-arch treatment and have one or two problem teeth or areas. Accelerated treatment protocols have been well researched and clinically proven. However, not every patient is a candidate for immediate implant placement and provisional restoration in the esthetic zone.

Dr. Joseph R. Carpentieri of White Plains, N.Y., will discuss the delicate balance that must be struck between using accelerated implant-placement protocols and achieving predictable esthetic outcomes. In particular, he will focus on criteria for distinguishing which patients are good candidates for implant placement and provisional restoration immediately after extraction of anterior maxillary teeth.

After an audience-participatory discussion and a break for lunch, Dr. Robert N. Eskow of Livingston, N.J., will continue the focus on the role played by staff members in identifying potential candidates for elective implant therapy. He also will explain some of the pre-treatment therapeutic measures that can be administered to enhance the likelihood of achieving optimal results.

Before, during and after implant treatment, effective preventive care is essential to sustaining esthetic restorations, teeth and implants over time. Registered Dental Hygienist Valerie Sternberg-Smith of Summit, N.J., will be discussing the causes of peri-implantitis and how to recognize the early signs. She also will explain how to determine the best plaque-control aids for various esthetic restorative/prosthetic designs.

About the author

Anita H. Daniels of Jupiter, Fla., chairs the AO's Allied Professional Staff Education Subcommittee. She is a registered dental hygienist.

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AACD lineup revealed



AACD 2013 will take place in Seattle. Photo/www.sxc.hu

Garber, Salama among the list of speakers at upcoming meeting

Courses and educators for AACD 2013 have now been revealed, including Drs. David Garber, Maurice Salama and many others among the lineup.

AACD 2013, the American Academy of Cosmetic Dentistry's (AACD) annual scientific session, is slated for April 24–27 in Seattle. Attendees who register before April 5 will receive \$150 off their tuition. To register, visit www.aacdconference.com.

What sets the AACD's meeting apart from other dental meetings is the live

learning experience, AACD President Ron Goodlin said.

"Our courses are geared toward all members of the dental team — from dentists to lab techs, hygienists, team members, office staff and more," Goodlin said. "AACD 2013 is a place where dentists and teams can evolve together. They'll return to their practices the following Monday with a new set of skills, new techniques and new energy."

To see who's on this year's lineup, check out the AACD's digital version of the preliminary conference guide, available at bluetoad.com/publication/?i=85943.

The digital conference guide lists courses, speaker bios, exhibitor lists, schedules of events and information about social events, including receptions and fund-

To register

For more information or to register, visit www.aacdconference.com.

raising activities for the AACD Charitable Foundation.

The conference kicks off at 2:30 p.m. April 24 with a "power session" featuring Drs. Garber and Salama. Following the power session is the AACD's welcome reception, which will be held at the Experience Music Project, located at the base of Seattle's famous Space Needle.

Attendees are encouraged to register for the conference as soon as possible and to view the courses in the preliminary guide prior to course selection opening. For more information or to register, visit www.aacdconference.com.



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Representatives from every company will be ready to engage attendees in discussions on creating practice solutions.

After the conference, you can take a day to relax and revitalize by exploring some of the great tourist attractions in Vancouver. The ocean is steps from the Vancouver Convention Centre, and pristine snow-capped mountains offer choice spring-like skiing conditions.

To register

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tional manual polishing.

In order to answer this, the team at the Fraunhofer ILT developed a process to polish blood-carrying implants with lasers. "We are able to reduce the micro-roughness to such an extent that the implant exhibits the best possible haemocompatibility. However, we began with very little information on exactly what quality the surface had to have for this purpose," explained project leader and engineer Christian Nüsser from the

Fraunhofer ILT. "For this reason, we had to test various parameters to reach the desired result."

The haemocompatibility of the implants was tested at the Münster University Hospital. The result: laser-polished implants exhibit the same haemocompatibility as those polished manually, but laser polishing is 30 to 40 times faster than manual polishing. With large lot sizes, this means an enormous reduction in production costs. In addition, laser polishing has a higher reproducibility. It guarantees a homogeneous smoothness

over the entire surface of a free-form geometrical component, even on corners and edges, which are difficult to reach when polished manually.

Unlike in conventional processes, the edges are not rounded off when polished with lasers, thus guaranteeing high geometrical accuracy of the component. Another advantage of laser polishing lies in its far cleaner and more environmentally friendly process. In contrast to manual polishing, no polishing or abrasive materials are used, leaving no chemical residue on the implant.

Alongside this polishing process, a prototype apparatus has been developed at the Fraunhofer ILT for automated laser polishing of implants. For the first time, scientists have developed a glove box with a six-axis articulated robot, which can grasp the implants and process a complete series of them on its own. This automated machine engineering makes the entire process less expensive, more flexible and appropriate for industrial series production.



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Managing your debt

By David Keator, Keator Group

Many investors track their assets closely — checking the Dow, following certain companies and consulting with a financial advisor. But what about the often overlooked liabilities side of the balance sheet?

There are lots of pieces to the “balance sheet” puzzle. Amazing value can be brought by addressing the debt side of an individual’s personal balance sheet. It’s just as important as the investment side.

Affluent investors, in particular, have access to a wide variety of creative lending options — the home equity line of credit and collateralized securities are considered to be chief among them. What one often finds is that clients don’t necessarily have too much debt; it’s just organized poorly. People are not taking advantage of more appropriate borrowing options. There’s debt — and then there’s debt.

Consumption vs. conservation

The difference between debt types is generally a matter of consumption versus conservation.

“Borrowing for consumption is usually not a good idea,” says Mary Sexton, former director of lending services of Wachovia Securities.

“You’re using a home equity line of credit to buy shoes? You’re accessing leverage to maintain a lifestyle you can’t currently afford? That’s borrowing for consumption. We want people to learn you should not borrow for consumptive purposes.”

Debt can be used most wisely for conservation purposes.

“These are larger expenses you just can’t fund from current cash flow, such as a big tuition bill,” Sexton says.

“It’s critical when thinking of incurring debt to consider how it will impact your investment decisions.”

With that college tuition bill, for example, it wouldn’t make sense to disrupt your long-term investment plan for a short-term need. Instead, Sexton advises, you could consider a home equity line of credit, or you may elect to borrow against your securities.

Smart debt management

To work with debt strategically, first, clearly identify your overall goals and establish priorities. Then look at all your assets and liabilities and figure out your cash needs going forward.

It’s also important to determine your suitability for borrowing and, just as with investing, set your risk tolerance level.

When you acquire debt using an adjustable interest rate, you must think about interest-rate risk. If you are borrowing in a rising-interest-rate environment using adjustable rates and the prime goes up 500 basis points (5 percent), would you have the ability to pay off the loan to reduce your risk? You need to consider the implications of borrowing. At the end of



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the day, you need to be able to sleep at night.

Of course, basic principles of money management hold true when dealing with interest rates, whether you are working with good debt or bad debt — you want to earn more money than you pay out.

The key is to borrow at the lowest available rate while maximizing your investment returns. You wouldn’t want to borrow on a credit card charging a double-digit interest rate while investing in a money-market fund paying below 5 percent, for example.

Selecting a borrowing method is key to smart debt management. Consider these possibilities:

- *Credit cards are OK, but only if you pay off the balance.* There are highly sophisticated, affluent investors who are carrying \$40,000 credit-card balances and don’t have a home equity line of credit. That may not be the best thing to do, depending on your situation.

- *A home equity line of credit works well for investors who need immediate liquidity — and even those who don’t.* A home equity line is flexible; you only draw on it as you need it during the draw period. It can offer relatively low risk, may be priced at a currently low prime rate or

prime plus or minus a margin¹ and may be tax-deductible².

It could be one of the best borrowing options available if you take into consideration your short-term, long-term and interim cash flow needs.

And you never know when you’re going to need liquidity — you want the ability to access it in life-altering events. There could be a medical emergency, a divorce, widowhood. You want that line in place beforehand.

Borrowing against securities is another option³. This strategy provides low-rate financing, prime or prime plus or minus a margin, by using the client’s stocks, bonds and even savings accounts and certificates of deposit as collateral. Investors can continue to trade their securities and earn on their investments while they are collateralized.

The bottom line: Consult a qualified financial advisor to help you make sure you’re considering all the borrowing options available to you. It could make a dramatic difference in your future financial life.

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1. Most home equity lines of credit are variable-rate forms of credit, meaning that the APR may increase or decrease after consummation based on changes to the index (in this example, the prime rate as published in The Wall Street Journal, Eastern Edition, was 3.25 percent on March 3, 2011) and in accordance with the terms of the Home Equity Line of Credit Agreement. The borrower may have to pay closing costs. Adequate homeowner’s insurance is usually required, and flood hazard insurance may be required. If the borrower chooses an interest-only repayment option in a state where that option is available, a balloon repayment will result.
2. Please consult your tax advisor regarding tax deductibility.
3. Margin borrowing adds risk to your investments and is not suitable for all investors. If the market value of the eligible securities in your margin account declines, you may be required to deposit more money or eligible securities in order to maintain your line of credit, or we may be forced to sell securities held in your account.

About the author



David Keator is a partner with Keator Group in Lenox, Mass. For more information, please call The Keator Group at (877) 532-8671.

Glidewell Laboratories announces the open platform Inclusive Tooth Replacement Solution

Glidewell Laboratories, an industry-leading provider of digital dental laboratory products and services, announced recently the expansion of the Inclusive® Tooth Replacement Solution to accommodate a number of popular implant systems including DENTSPLY Implants, BIOMET 3i, Nobel Biocare, Straumann and Zimmer.

“Clinicians who want to take advantage of this restorative-driven solution featuring custom tissue management but who prefer to place their existing implant system can now prescribe the open platform Inclusive Tooth Replacement Solution,” said Glidewell Laboratories Chief Operations Officer Greg Minzenmayer.

The expanded solution includes all of the same components as the original Inclusive Tooth Replacement Solution with the exception of the surgical drills required for placing the implant of choice (supplied by the prescribing dentist).

Glidewell Laboratories will provide the prosthetic guide, custom temporary components, custom impression coping and final CAD/CAM restoration, all designed around the clinician’s chosen implant platform.

Additionally, an Inclusive Tapered Im-



Glidewell Laboratories has expanded its Inclusive Tooth Replacement Solution to accommodate a variety of popular implant systems. Photo/Provided by Glidewell

plant (with corresponding final surgical drill) is included, as a replacement for the clinician’s implant if needed.

Temporization sets the tone for the final esthetic outcome, with parameters unique to each patient. Only the Inclusive Tooth Replacement Solution promotes patient-specific temporization

and contoured healing through the use of custom temporary components rather than generic components, according to Glidewell.

Clinicians can provisionalize a case with the custom temporary abutment and accompanying BioTemps® provisional crown or place the custom healing abutment for a more conservative approach. Either option affords the opportunity to begin sculpting the soft-tissue architecture around the implant and developing the future emergence profile — in a fraction of the time that would be required to create custom healing components chairside.

When healing is complete, the gingival anatomy is maintained and captured during the impression procedure with the matching custom impression coping, enabling the laboratory technician to design the natural emergence profile required for a predictable, esthetic result. In the same amount of time it would take to place generic stock components, patient-specific temporization and soft-tissue management is provided with this feature of the open platform Inclusive Tooth Replacement Solution.

The open platform Tooth Replacement

Solution is specifically designed as a convenient, all-in-one treatment option that begins with the final restoration in mind, incorporating all of the clinical components and laboratory services required to ensure a successful outcome.

Backed by more than 40 years of experience and a strong commitment to excellence, Glidewell Laboratories has the product portfolio, infrastructure and competency to provide the full spectrum of affordable custom implant solutions to dentists, according to the company. Advanced CAD/CAM processing capabilities ensure precise, esthetic restorations that require fewer adjustments and re-makes, reducing chairtime and leading to greater overall patient satisfaction.

Now, with Inclusive Scanning Abutments for clinical use, dentists who have made an investment in digital dentistry can enjoy the convenience of using their preferred intraoral impression system to take digital impressions for digital custom implant solutions that exhibit the level of precision they have come to expect from Glidewell Laboratories.

For more information, visit www.inclusivedental.com or call (888) 303-3975.

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Implant Direct's New Las Vegas Training Center

Implant Direct offers an extensive list of educational opportunities at its Las Vegas Training Center with computers at each desk for Image Guided Surgical Training, models/mannequins for hands-on training and a four chair dental office for live surgical demonstrations.

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Our price	\$85	\$100	\$100	\$120	\$120	\$120	\$40	\$112	\$100	\$120	\$100	\$120

Price comparisons based upon US list prices as of February 2011. All trademarks are property of their respective companies. Satisfied among Current and Former Users, by Company QS-Q214 of Millstream Research Group & Decodon Research, Inc. Company US list price for Tapered Screw-Vent with tissue guides, landing cylinder & straight abutment. US list price for StActive Tapered Effect Implant, custom screw, loading abutment, solid abutment, transfer and transfer cap. US list price for NobelActive with cover screw, impression coping & abutment. *Fees and conditions apply. †Casting only. ‡See surgical demonstrations not available at all rooms.

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BIOMET 3i welcomes new vice president of global marketing

BIOMET 3i is pleased to announce that Francois Michelin has joined the company as vice president of global marketing.

Michelon holds a bachelor's in economics from the University of Chicago, an MBA in marketing from Carnegie Mellon University and has more than 15 years of experience in marketing, general management and operations within the medical device industry.

He spent the last seven years with

Smith & Nephew as group director, visualization and global services, leading the commercialization of three new capital products, several new class II products, and creating supporting innovative value-added services. Prior to Smith & Nephew, Michelon spent more than seven years with GE Healthcare in several positions of expanding responsibility throughout the organization. Michelon has demonstrated success in leading cross-functional initiatives and a strong belief in marketing/sales alignment, bringing added value to this position within the company.

"I am thrilled to join the BIOMET 3i Team," Michelon said. "I look forward to supporting continuous product innovation, world-class education services, new market expansion and the long-standing relationships the company has with its customers, global dental schools and societies."

Juliet Johansson, senior vice president of global commercialization agrees: "We are very excited about Francois joining BIOMET 3i. I am confident that his keen knowledge of marketing and experience with product commercialization will be instrumental in helping us accomplish our goals."

About BIOMET 3i

BIOMET 3i is a leading manufacturer of dental implants, abutments and related products. Since its inception in 1987, BIOMET 3i has been on the forefront in developing, manufacturing and distributing oral reconstructive products, including dental implant components and bone and tissue regenerative materials. The company also provides educational programs and seminars for dental professionals around the world. BIOMET 3i is based in Palm Beach Gardens, Fla., with operations throughout North America, Latin America, Europe and Asia-Pacific. For more information about BIOMET 3i, visit www.biomet3i.com or contact the company at (800) 342-5454; outside the U.S. dial (561) 776-6700.

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Artzi reports "What is important is the implant success rate over time, as reported by the Sinus Consensus Conference, a 98% cumulative success rate over 5 years has been found with pure alloplast OsteoGen®." Artzi further noted that "OsteoGen® is physicochemically and crystallographically equivalent to human bone making it a pure alloplast. The spaces between the crystal clusters facilitate cellular and tissue proliferation within the grafted material, thus enhancing faster osseointegration."*

* Artzi Z, Nemanicki CJ, Dayan D. Nonceramic hydroxyapatite bone derivative in sinus augmentation procedures. Clinical and histomorphometric observations in 10 consecutive cases. Int J Periodontics Restorative Dent 2003; 23:311-319. Page 314, Volume 1, in J Oral Maxillofacial Implants 1998; 13:115-58

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Holes are made through the cortex. Defect concavities are grafted with OsteoGen®. Modeling is attained by securing OsteoTape® strips dry over graft with 1.5 mm Self-Drilling screws.



After cortex perforation, buccal implant concavity is filled with OsteoGen® to slightly above level of cortex. OsteoTape® is secured over the graft with 1.5 mm Self-Drilling screws.



Ridge height and width modeling requires 1.5 mm to 2.0 mm cortical perforations to maintain vascularity over a longer period of time. On x-rays at 4 to 5 months, defect site will show radiopaque.

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Debridement and unsection of buccal region was followed by perforating the cortex to marrow using 2 mm round bur. Bleeding was controlled, and the defect concavities were grafted with OsteoGen®.

OsteoGen® and OsteoGenis™ were mixed with 4 mL blood. Titanium mesh cage was secured lingually with 2 screws. Bone graft mixture placed on ridge and mesh. Cage was secured buccally with 2 screws.

3-6 Months Post-Op. Screws were removed and the cage reflected revealing regeneration of 10 mm vertical bone height by 7 mm thickness. Two 4 mm diameter implants were placed in the restored site.

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ZEST Anchors introduces a new narrow-diameter implant system featuring overdenture attachment

Until now, choosing a narrow-diameter implant could often mean a sacrifice in attachment performance and, ultimately, patient satisfaction.

ZEST Anchors responds to that need by introducing the LOCATOR® Overdenture Implant System (LODI), featuring a new narrow-diameter implant combined with the world-leading LOCATOR Attachment, providing clinicians with solutions to the attachment limitations often found with O-ball mini implants.

The ZEST Anchors LOCATOR Overdenture Implant System features critical elements that optimize patient satisfaction, the company says. The LOCATOR Attachment is seated after the implant is placed, making case planning, implant surgery and restoration easier. In addition, its unique two-piece design allows for attachment replacement should wear occur throughout time.

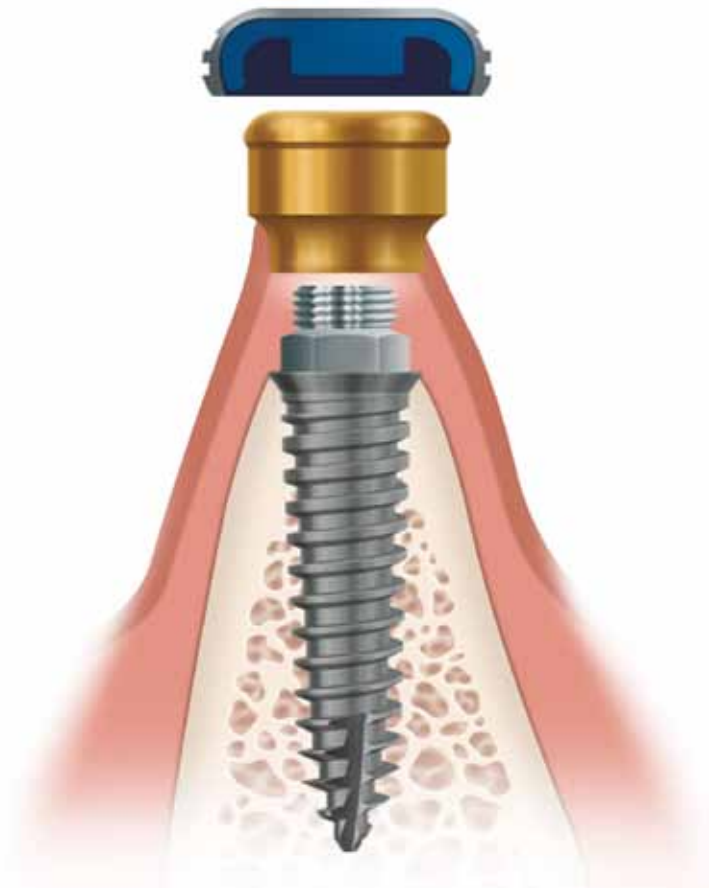
LODI is available in narrow diameters of 2.4 and 2.9 mm and is ideal for those patients with very narrow ridges who refuse the additional appointments and the cost often associated with grafting procedures. Made from the strongest titanium available, LODI features a proven RBM surface and is designed to provide

primary stability when immediate loading is indicated, the company says.

LODI is packaged with the LOCATOR Attachment so it incorporates all of LOCATOR's sought-after features including its patented pivoting technology and customizable levels of retention, all while maintaining a dramatically reduced vertical height as compared to O-ball mini implant designs.

"The LOCATOR Overdenture Implant System is the result of a collection of inputs from market demands and clinicians expressing their needs," said Steve Schiess, CEO of ZEST Anchors. "To the many clinicians who asked us why a trusted leader in overdenture attachments that has a proven, 40-year track record of continuous innovation doesn't make a narrow diameter implant for overdentures, I can finally say here is LODI."

For more information about the Locator Overdenture Implant System from ZEST Anchors, call (855) 868-LODI (5634) or visit the new website at www.zestanchors.com.



Photo/Provided by ZEST Anchors

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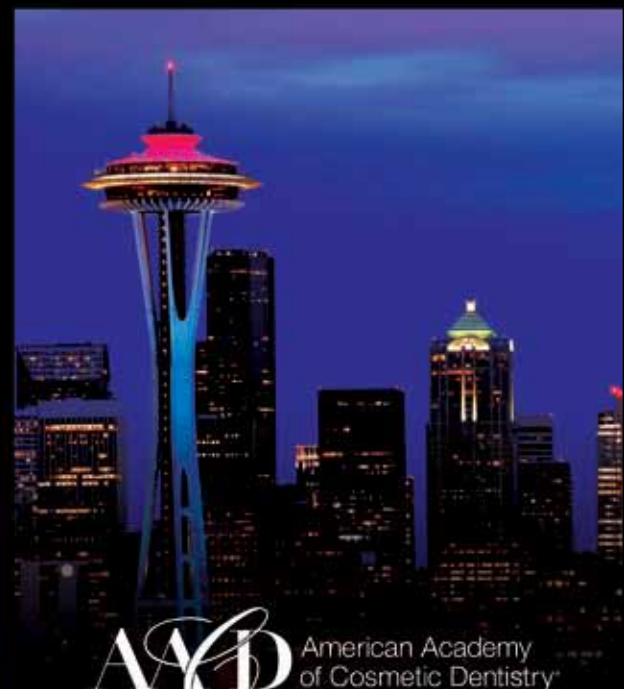
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D4D Technologies introduces E4D version 4.5 featuring E4D Sky

With the recent release of E4D DentaLogic™ software version 4.5 featuring E4D Sky, D4D Technologies announces the creation of a truly open network of chairside restorative solutions for patient treatment.

The E4D Sky communication network enables E4D system operators to exchange case data via the Internet with internal and external service providers, greatly extending the range of treatments they can provide their patients.

"With E4D v 4.5 and E4D Sky, a den-



Dr. Gary Severance says the E4D Sky by D4D offers more flexibility and options.

tal office has total flexibility and a full range of options for assistance with more complex cases, for some extra help

at busy times, or for additional material options to those that are typically milled in office, like zirconia," said Gary Severance, DDS, for D4D Technologies.

E4D Sky is supported by Henry Schein's DDX (Digital Dental Exchange) and connects E4D systems running version 4.5 software with a variety of outsourcing options for restoration design and fabrication:

- E4D Digital Services experts design, mill, or complete restorations, as well as make models or bridges

- E4D Certified Laboratories offer a variety of services

- Any third-party provider can be sent an .stl open platform file

"E4D Sky takes the E4D system to the next level while supporting the launch of our E4D Solo scan-only options. Operators will also be able to exploit the flexibility of the .stl open platform file export to access numerous other services with their scanned data," said Glen Freeman for D4D Technologies. "We are pleased to announce that the expanded capabilities of E4D DentaLogic software version 4.5 with E4D Sky are now available to all new and current customers." For more information, visit www.e4d.com.

About D4D Technologies

D4D Technologies is taking the dental profession to a higher level of productivity, patient comfort and convenience with its E4D restorative solutions. DentaLogic software in the E4D Design Center enables the operator to customize a virtual restoration before it is sent to the robust E4D Mill for fabrication. With the introduction of version 4.5 and E4D Sky, each of these system components is now also available for custom configurations and interfaces to meet the needs of any dental office or laboratory. E4D Sky communicates with E4D Digital Services, certified E4D dental laboratories, and any third-party provider accepting open format files (.stl) for a full range of production and delivery options. E4D Compass™ integrates E4D restorative designs with cone-beam data to plan and communicate restoratively driven implant therapies.

E4D Compare™, the latest addition to the E4D suite of products, employs adaptive learning technology to dental education. Headquartered in Richardson, Texas, a suburb of Dallas, D4D Technologies has partnerships with major corporations in the dental profession: Henry Schein Dental is responsible for global sales and distribution; 3M ESPE and Ivoclar Vivadent provide restorative materials. E4D Dentist, E4D Sky, E4D DentaLogic, E4D Compass, and E4D Compare are trademarks of D4D Technologies LLC.

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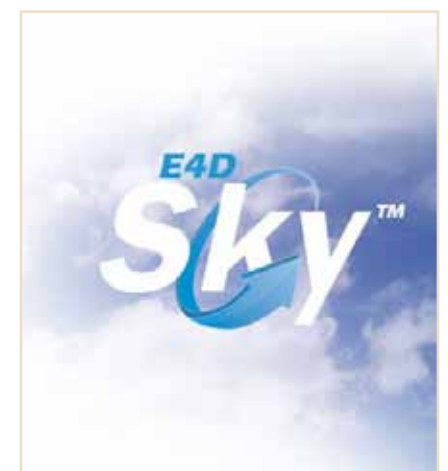
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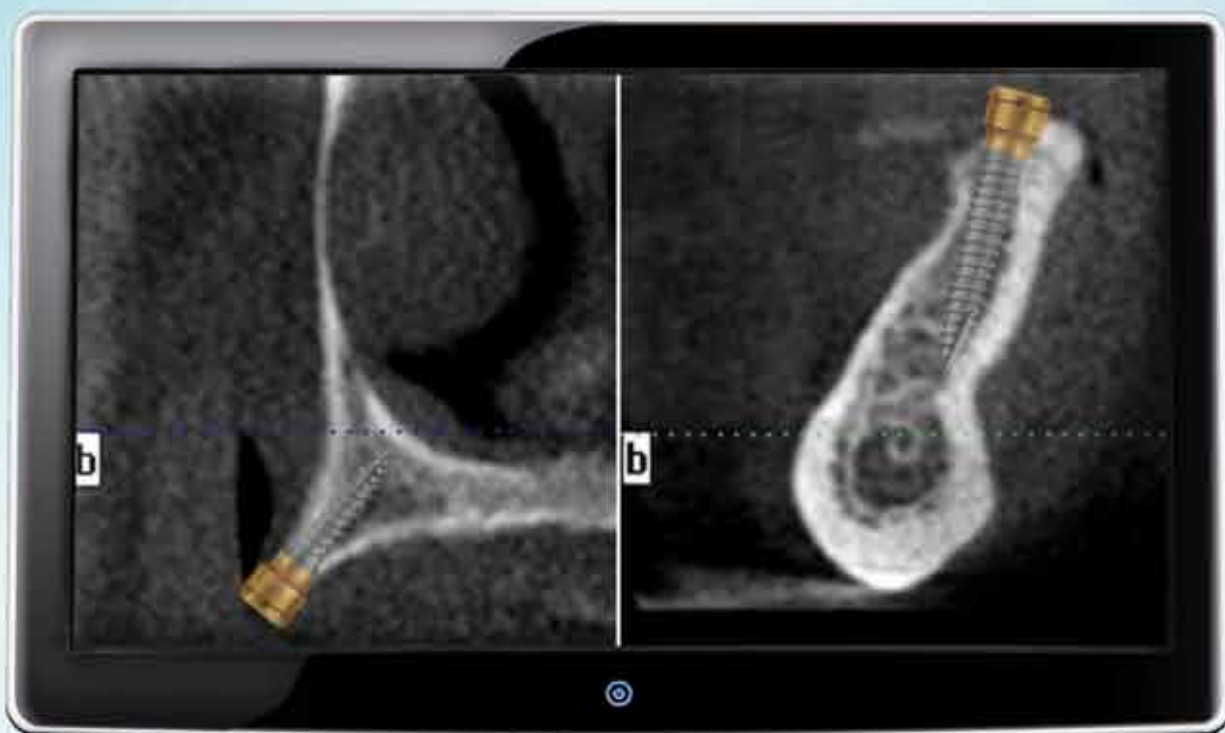
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Introducing the new LOCATOR® Overdenture Implant System (LODI), featuring narrow diameter implants from the makers of the trusted LOCATOR Attachment. LODI is an ideal treatment alternative for the many patients with severe resorption, resulting in very narrow ridges for implant placement. These edentulous patients who are faced with the choice of bone grafting may decline treatment due to additional surgeries or financial reasons. LOCATOR Overdenture Implants may be placed using a minimally invasive, flapless procedure with intuitive instrumentation. The implants are made from strong Titanium Alloy and are designed to provide primary stability when immediate loading is indicated.

Incorporating all of LOCATOR's proven features, including its patented pivoting technology, LODI has remarkable resiliency and exceptional durability, while allowing for replacement of the attachment should wear occur throughout time. The LOCATOR Overdenture Implant System now allows you to treat edentulous patients with the minimum standard of care of an implant overdenture,* at a reduced cost and with greater satisfaction.



Stop turning away overdenture patients with narrow ridges just because they decline bone grafting!
 Take a look at the LOCATOR Overdenture Implant System and call 1.855.868.LODI (5634)
 or visit our new website at www.zestanchors.com/loDI/it.

* The McGill Consensus Statement on Overdentures. Montreal, Quebec, Canada. May 24-25 2002.
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POLAR _ EYES

polar_eyes is a cross-polarization filter that makes it easy to eliminate unwanted reflections on teeth that are caused by a flash. These specular highlights can obscure details in the teeth and cause problems when communicating with the lab.

The sample photos show the typical reflections from a flash (without polar_eyes) and the reflection-free result when using polar_eyes. The filter attaches to your macro flash by small magnets.

This allows the filter to be quickly attached or removed for patient photos. The polar_eyes filter is available to fit the following macro flashes: Canon MR-14EX, Metz MS-1 and Sigma EM-14oDG.

A filter for the Nikon R1 macro system will be available shortly.

For more information, contact PhotoMed at (800) 998-7765 or visit www.photomed.net.



Without polar_eyes. With polar_eyes.



polar_eyes is a cross-polarization filter that eliminates unwanted reflections. Photos/Provided by PhotoMed

BIOLASE now a U.S. reseller for TRIOS

3Shape, a global leader in 3-D scanners and CAD/CAM software for dental applications, announced recently that it has signed a non-exclusive five year agreement with BIOLASE to sell the 3Shape TRIOS[®], a next-generation digital impression solution, to dentists, dental specialists and dental schools. Through the TRIOS' unique lab communication features and technology, dentists will be able to focus more on treating patients and providing best quality restorations.

"The dental office is becoming more digital by the day and the TRIOS will be an integral part of these advances," says Henrik Vestermark, vice president of operations in North America. "We believe the shift to digital scanning creates a paradigm change in dental care with the benefits to dentists and patients being proven every day."

The 3Shape TRIOS is a complete digital impression solution that includes intraoral scanning, clinical scan-validation, and seamless communication with the lab. It enables dentists to rapidly capture the complete intraoral situation and send the 3-D model directly to the lab. It does not require pre-spraying of the teeth. The system clinically validates the impression and includes flexible tools allowing dentists to edit their scans.

About BIOLASE

BIOLASE, the "world's leading dental laser company," is a medical technology company that develops, manufactures and markets dental lasers and also distributes and markets dental imaging equipment; products focused on technologies that advance the practice of dentistry and medicine. The company's laser products incorporate approximately 285 patented and patent pending technologies designed to provide biologically clinically superior performance with less pain and faster recovery times. Its imaging products provide cutting-edge technology at competitive prices to deliver the best results for dentists and patients. BIOLASE has sold more than 19,600 lasers among 16,000 customers.

About 3Shape

3Shape is a Danish company specializing in the development and marketing of 3-D scanners and CAD/CAM software solutions designed for the creation, processing, analysis and management of high-quality 3-D data for application in complex manufacturing processes. 3Shape envisions the age of the "full digital dental lab," and its more than 130 developers provide superior innovation power toward reaching this goal.

For further information regarding 3Shape, see www.3shapedental.com or visit 3Shape at www.facebook.com/3shape.

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AO Meeting in Tampa, FL, March 7-9, 2013

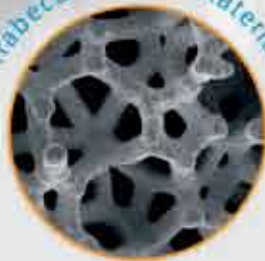
ZIMMER

THE IMPLANT FOR OSSEOINCORPORATION

BONE ONGROWTH + BONE INGROWTH



Trabecular Metal Material



Osseoincorporation



Ongrowth + Ingrowth*

Artistic Rendering

Trabecular bone



I am the Zimmer® Trabecular Metal™ Dental Implant, the first dental implant to offer a mid-section with up to 80% porosity—designed to enable bone INGROWTH as well as bone ONGROWTH. Through osseoincorporation, I harness the tried-and-true technology of *Trabecular Metal* Material, used by Zimmer for over fifteen years in orthopedics. My material adds a high volume of ingrowth designed to enhance secondary stability.... **and I am Zimmer.**

Visit TrabecularMetal.zimmerdental.com
to view a special bone ingrowth animation and
request a *Trabecular Metal* Technology demo.



zimmer | dental

www.zimmerdental.com

Zfx Dental CAD Design Software: designed by technicians, for technicians

Zimmer now offers Zfx software, which includes a wide range of restorative options.

Photo/Provided by
Zimmer Dental



Once the scan data is imported, Zimmer Dental's Zfx software guides you step-by-step through the process — beginning with the crown and working down to the coping or abutment, as needed. This design flow gives you the option to control each detail, and tailor the system to suit your needs. The complete software package includes:

- Zfx CAD Design Software for crown-and-bridge restorations
- Abutment Design Module
- Virtual Articulator
- TruSmile

With the Zfx system, there's a wide

range of restorative options at your fingertips for designing abutments, crowns and bridges. Zfx software allows you to design restorations from the crown down, resulting in an ideal restoration.

The Zfx Scan III offers precision, reliability and processing speed through a user-friendly interface. The system, designed with an open architecture, allows you to output a standard .stl file for flexibility in computer-aided manufacturing and restoration. You add the finishing touches.

For more information, visit www.zimmerdental.com or call (800) 854-7019.

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ANNUAL CONVENTION
OF THE ORDRE DES DENTISTES DU QUÉBEC

Looking to start CT- guided surgery?

*Here's how to do it
without paying for
new software*

By Anatomage Staff

At Anatomage, we recognize the value of long-term relationships — our business model revolves around clinicians who will achieve success and share their business with us.

As an experienced implant clinician/surgical guide user, you know the ropes. You know the nuances of guided surgery. You may have already paid for software that has locked you into an aging, inefficient system.

Now, at Anatomage, we give you the right to choose. You don't pay for software. You get access to our new Passage implant-planning software, world-class service and cost-effective surgical guides.

Take advantage of this opportunity now and learn about our complete solution package.



Anatomage offers new Passage implant-planning software. (Photo/ Provided by Anatomage)

An affordable implant solution to grow your referral base



\$695*
Includes everything you need to restore a missing tooth

INCLUSIVE®

TOOTH REPLACEMENT SOLUTION



Inclusive custom healing abutment at implant placement



Contoured soft tissue sulcus after healing



Buccal view of final restoration at delivery

INCLUSIVE®

It's everything you and your referring dentist need for the perfect implant case.



BioTemps® provisional crown
included



Custom healing abutment
included



Final BruxZir® or IPS e.max® crown
included



Custom temporary abutment
included



Custom impression coping
included



Final Inclusive® Custom Abutment
included



Surgical drills and Inclusive® Tapered Implant
included



Simple, Convenient, Affordable

Implant surgeons are increasingly looking for new and unique ways to be more restoratively driven and better support their referring dentists on the crown & bridge side of treatment. Glidewell's new Inclusive Tooth Replacement Solution was designed to support this paradigm shift by providing everything that a restoratively driven surgeon needs to ensure success for his referring dentists. Reward your referring doctors with all lab costs for the final abutment & crown restoration pre-paid.

NOW COMPATIBLE WITH MORE IMPLANT SYSTEMS — OPEN PLATFORM

- Astra Tech® OsseoSpeed®
- Biomet 3i® Certain®
- Nobel Biocare® Brånemark System®
- Nobel Biocare® NobelActive® & NobelReplace®
- Straumann® Bone Level®
- Zimmer® Screw-Vent®

In the event that your implant needs replacement, we include a backup Inclusive Tapered Implant and final drill for your peace of mind.

*Price does not include shipping or applicable taxes.
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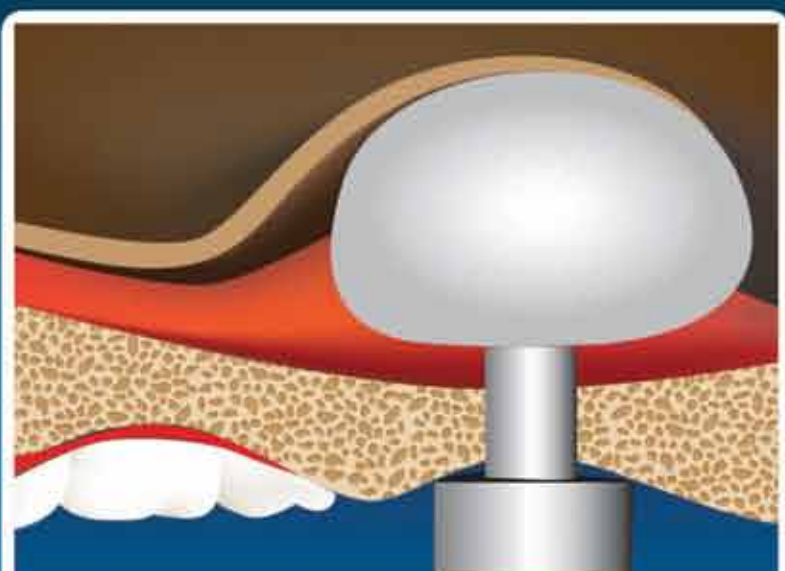
GLIDEWELL LABORATORIES

Premium Products - Outstanding Value

MIS IMPLANTS TECHNOLOGIES

Booth #526 at the AO 28th Annual Meeting
Tampa, FL | March 7th-9th, 2013

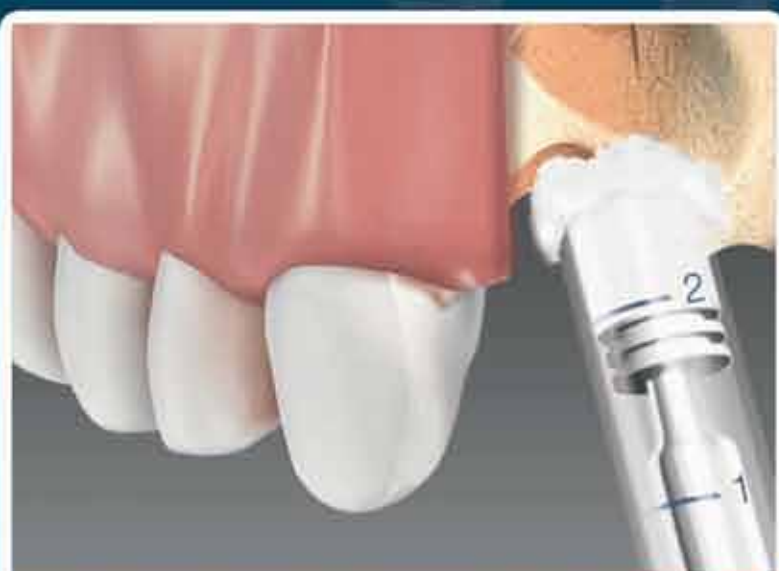
Please join us at our Corporate Forum
at the AO Annual Meeting on March 7th



March 7, 2013 | 8:00 AM | Room #20

*The Future of Dentistry Is Now -
Performing Sinus Lifts Using a
Minimally Invasive Balloon*

Speaker: Glenn S. Ludwig, DMD



March 7, 2013 | 9:00 AM | Room #20

*Treatment Strategies for the
Atrophic Maxilla*

Speaker: Robert Horowitz, DDS

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Join us for cocktails at the
New Product Showcase!
Friday, March 8th 5pm - 6:30pm

We will be presenting our latest innovative products and devices!

MIS offers a wide range of implant designs and restorative components, along with innovative kits and accessories for the varied challenges encountered in implant dentistry. To learn more about MIS visit our website: misimplants.com or call us:

866-797-1333 (toll-free)

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