The place to be

For dental professionals of every stripe, 102nd Hinman meeting offers a world of opportunity

By Fred Michmershuizen, today Staff

It’s the 102nd Thomas P. Hinman Dental Meeting, and the Georgia World Congress Center and Omni Hotel at CNN Center are alive with opportunity for dental professionals. The theme of this year’s event is “Aiming for Excellence.”

“Hinman offers the highest caliber of continuing education and world-class exhibits to help everyone in attendance achieve excellence in their careers and practices,” said Dr. Brian Carpenter, general chairman of the 2014 Hinman Dental Meeting.

“We have assembled an impressive roster of speakers and special courses designed to elevate learning for our

An opportunity to learn

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Organizers of the 102nd Thomas P. Hinman Dental Meeting have brought in more than 65 leading dental authorities to Atlanta this week to present more than 230 courses, including all-day educational tracks for dentists, dental hygienists, assistants and office staff.

Course topics range from Botox and dermal fillers to myofascial pain treatment and interactive CEREC instruction. This year, unique course pairings that combine speakers who address both diagnosis and therapeutic for select topics are being offered.

Four new educational tracks are being offered: “Hygiene, Health & Happiness,” “Achieving Excellence in Assisting,” “Business Office Bullseye” and “Health and Wellness.”

Check the show guide or Hinman 2014 app for times and locations.
Evolve.

GIOMER TECHNOLOGY
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Key Features of Giomer Materials
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■ Recharges fluoride when treated with fluoridated products
■ Decreases acid production of cariogenic bacteria
■ Neutralizes acid on contact
■ Demonstrates an anti-plaque effect
more than 22,000 dentists and dental professionals who attend our annual meeting."

On the exhibit hall floor, nearly 400 companies are on hand to demonstrate the latest in dentistry. Exhibitors are showcasing new technology, equipment, products and services for the entire dental staff.

Convergent Dental (booth No. 239), developer of Solea, is exhibiting for the first time at the Hinman meeting this year.

According to the company, Solea is the first computer-aided preparation (CAP) laser system in dentistry and the first dental laser using the unique wavelength of 9.3 µm, which allows Solea to operate on any tissue and with more precision and speed than any other hard tissue laser available on the market.

"Solea’s laser enables dentists to start and nearly finish without touch - ing the drill for a majority of dental procedures," the company said. "Dentists have been reporting that 95 percent of patients don’t feel any pain. Of that group, 50 percent feel nothing; 45 percent feel cold or some pressure; and 5 percent say they feel some pain."

Ellman International (booth No. 1515) is demonstrating its Surgitron line of advanced radiofrequency (RF) generators.

Operating at a frequency of 4.0 MHz, the Surgitron is designed to provide surgical precision and controlled hemostasis for a variety of general dentistry procedures, including gingivectomies, frenectomies, crown and bridge preparations, pulpotomies, incision and drainage, and coagulation, according to the company.

Meeting attendees who step outside the Georgia World Congress Center and Omni Hotel at CNN Center are greeted by pleasant weather Thursday morning.
Scenes from Thursday

- Ellen Wallace, left, and Dr. Lawrence Wallace of The Larell One Step Denture at the Patterson Dental booth (No. 1707). Lawrence is scheduled to conduct a presentation, ‘Quality Dentures in One Hour — A Breakthrough Technique,’ tomorrow from 1 to 4 p.m. in Room A411.

- Alex Membrillo, left, and Jason Corrigan of Cardinal Web Solutions (booth No. 2237). These guys have the know how to make sure new patients can find you via web searches.

- Welcome to the 102nd Thomas P. Hinman Dental Meeting.

- Katherine White, left, and Monica Diaz of Glidewell Laboratories (booth No. 1825).

- The Crest Oral B presentation draws a crowd at booth No. 1419.

- Kimberlee Winterton of Aribex (booth No. 901) holds a NOMAD Pro 2.

- Sgt. Florey, left, and Richard Hood of Army Dental Recruiting (booth No. 525).

- This furry fella can be seen hanging out at the DentalPost booth (No. 556).
Meeting attendees take a hands-on class on CEREC technology Thursday morning.

The demonstrations at Isolite (booth No. 35) always draw a crowd.

Mike Gergen of Six Month Smiles (booth No. 1049).

Nikki Ruck, left, and Liliana Galvan of NuSmile Pediatric Crowns (booth No. 1253).

Lance Wise, left, and Paul Martell of Implant Direct (booth No. 1257).

Robert Mitchell, left, and Steve Moorhead of MIS Dental Implants (booth No. 606).

Photographs by Fred Michmershuizen, today Staff

From left: John Weller, Vito Verrura, Cliff Dodson and Dan Voges of DentalVibe (booth No. 2008).

From left: Justin Williams, Roni Rodman and Molly McGovern of Convergent Dental (booth No. 239).

The Planmeca booth (No. 819).
From left: Dr. Jeffrey Sherman, Samantha Martens and Paul Kurtis of Ellman International (booth No. 1515).

Melody Blair of HealthFirst (booth No. 737).

A student discusses her table clinic presentation with meeting attendees.

Dr. Fred Weinstein of Vancouver, British Colombia, holds court at the Dental Tribune America booth (No. 850).

Christopher Sanchez of Ossotanium Corp. (booth No. 325).

Greg Sconce of InfoStar (booth No. 47).

Meeting attendees sit down for the presentation at the Colgate booth (No. 909).

Emily Farina, left, and Megan Gûker of The Scheduling Institute (booth No. 956).

Jack Solomon, left, and Pat Solomon of USO.

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Welcome to the Thomas P. Hinman Dental Meeting, and congratulations on actively moving your understanding and professional success forward!

It is only through excellent education that we individually grow and develop as dental health professionals and, through that, build a practice that is not just successful but delivers comprehensive and high-quality care.

As a patient, I expect the best care I can find. As a doctor, I want to deliver the best care possible. That takes us to the power of continuing education, and, as doctors, we are faced with many choices in continuing education.

As a way to introduce you to the Las Vegas Institute for Advanced Dental Studies, or LVI, I want to outline what LVI is about and what void it fills in your practice. The alumni who have completed programs at LVI were given an independent survey, and unlike the typical surveys, 99.7 percent said they love practicing dentistry, and of those surveyed, 92 percent enjoy their profession more since they started their training at LVI. That alone is reason enough to go to LVI and find out more.

While the programs at LVI cover the full breadth of dentistry, the most powerful and life-changing program is generally reported as being Core I, or “Advanced Functional Dentistry – The Power of Physiologic Based Occlusion.” This program is a three-day course that is designed for doctors and their teams to learn together about the power of getting their patients’ physiology on their side.

In this program, doctors can learn how to start the process of taking control of their practice and start to enjoy the full benefits of owning a practice and providing high-quality dentistry. Regardless of whether it is a solo practice or a group setting, every doctor can start the process of creating comprehensive care experiences for his or her patients.

We will discuss why some cases doctors are asked to do are actually dangerous ones to restore cosmetically. We will discover the developmental science behind how unattractive smiles evolve and what cases may need the help of auxiliary healthcare professionals to get the patient feeling better.

The impact of musculoskeletal signs and symptoms will be explored, and we will look at how the supporting soft tissue is the most important diagnostic tool you have – not simply the gingiva but the entire soft-tissue support of the structures, in the mouth and also in the rest of the body.

A successful restorative practice should not be built on insurance reimbursement schedules. An independent business should stand not on the whims and distractions of a fee schedule but rather on the ideal benefits of comprehensive care balanced by the patients’ needs and desires.

Dentistry can be a challenging and thankless business, but it doesn’t have to be. Through complete and comprehensive diagnosis, there is an amazing world of thank yous and hugs and tears that our patients bring to us when we change their lives. The Core I program at LVI is the first step on that journey. That’s why when you call, we answer the phone: “LVI, where lives are changing daily!”

For more information on the Las Vegas Institute for Advanced Dental Studies, visit www.lviglobal.com.
Esthetic Resin Cements Creating Remarkable Restorations

- **FUSION-Zr™** Cements are self-adhesive, available in light cure or dual cure. For permanent cementation of all-ceramic restorations, Zirconia, CAD/CAM materials, veneers, crown & bridge, inlays/onlays, PFM, posts/fiber posts.

- **Speed-Set** - Light sensitive, cures completely and fast.

- **Ultra-Grip Placement** - Stay-Put viscosity holds the veneer in place. Fast and easy clean-up.

- **Self Adhesive** - Bonding agents can be used. Bonding agents not required.

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**FUSION-Zr™** Resin Cements / Veneer Styx

**Veneer Procedure by Ross Nash, DDS - The Nash Institute**

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Lecture hall with thirty-plus hands on work stations and ample space for larger groups in lecture format.

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1. Direct Composite Resin Dentistry
   May 16 (Fri) - 17 (Sat)
2. Indirect Esthetic Dentistry
   June 27 (Fri) - 28 (Sat)
3. Full Mouth Esthetic Reconstruction
   July 25 (Fri) - 26 (Sat)

Each is a course in itself, but together they form a complete study in esthetic and cosmetic dental treatment. By combining good business practices as taught by Debra Engelhardt Nash in the Business School for Esthetic Dentistry with the expertise gained by taking the clinical courses, improved practice success is virtually guaranteed.

Tuition: Individual clinical courses are $1195 and the full Continuum is $2995.

Seats are limited.

Call: 704-895-7660
Email: rdnash@aol.com
The new giomer bulk-fill restoratives you can trust

Shofu offers BEAUTIFIL Bulk Flowable and BEAUTIFIL Bulk Restorative

By Shofu Staff

Bulk fill resin-based composites are continuing to evolve and improve in terms of quality and esthetics, but despite their growing recognition, many dentists continue to be wary of embracing these newly emerging products. Recent research shows their performance has proven to be comparable to traditional multi-increment resin-based composites.

So why not switch? Obvious advantages are available with bulk filling, including faster technique and fewer incremental steps, which allows easier placement, and potentially less voids because of mass placement. However, on the opposite side of the spectrum, there could be more voids present because of lack of control when the material is placed at one time.

Adequate contact, shrinkage stress and polymerization in the deepest portions of the restoration are additional challenges that have made many dentists concerned.

Such complications can result in serious consequences, including debonding of restorations, marginal gaps, discoloration, recurrent caries and patient discomfort due to postoperative sensitivity.

Thanks to advances in technology, professionals are now being offered two alternatives, BEAUTIFIL® Bulk Flowable and BEAUTIFIL Bulk Restorative. These bulk fill materials offer a filler technology that addresses these legitimate concerns.

Preventative properties

Shofu’s new BEAUTIFIL Bulk Flowable and BEAUTIFIL Bulk Restorative incorporate giomer technology, surface pre-reacted glass filler particles (S-PRG), known to provide continual fluoride release and high recharge when fluoride concentrations are present in the mouth.

In addition to fluoride, S-PRG filler also releases five other ions: sodium, strontium, aluminum, silicate and borate, all with known bioactive properties. When exposed to concentrations of lactic acid, these ions contribute to an acid neutralization effect, helping to reduce the occurrence of secondary caries and extend the life of the restoration.

Depth of cure

The giomer (S-PRG) filler particles in BEAUTIFIL Bulk Flowable and BEAUTIFIL Bulk Restorative provide an ideal balance of light diffusion and transmission that allows the material to be completely light cured up to 4 mm of depth without being too translucent, a known shortcoming of other bulk fill composite material. These unique optical characteristics are derived from the tri-laminar structure of the S-PRG filler.

Incoming light goes through the glass core but scatters on the surface, allowing an outstanding depth of cure and an aesthetic, natural look when placed in the patient’s mouth.

Polymerization shrinkage and shrinkage stress

The varied particle size of giomer filler allows a dense distribution within the resin matrix. Thus, a high filler load can be achieved with BEAUTIFIL Bulk Flowable (72.5 wt percent) and BEAUTIFIL Bulk Restorative (87 wt percent), which helps to reduce polymerization shrinkage and shrinkage stress.

Test results reveal that BEAUTIFIL Bulk Flowable and BEAUTIFIL Bulk Restorative have the lowest shrinkage stress among some competitors. Lower shrinkage stress can help to prevent post-operative sensitivity, marginal leakage and secondary caries.

Mechanical properties

BEAUTIFIL Bulk Flowable and BEAUTIFIL Bulk Restorative were cut and tested at 1 mm up to 4 mm depths to measure the Vickers Hardness number. The results presented more than 90 percent hardness at the top surface of each point—at performing competitive products—and showed excellent curing properties to ensure complete polymerization when filled in 4 mm increments.

The materials also exhibit impressive flexural and compressive strength and high radiopacity to enable accurate diagnosis.

An excellent choice

BEAUTIFIL Bulk Flowable and BEAUTIFIL Bulk Restorative address dental professionals’ concerns and overcome the challenges associated with the bulk fill materials that were first introduced into the marketplace.

Combining bioactive benefits of giomer, low-shrinkage stress, high depth of cure and a fast and easy placement technique, BEAUTIFIL Bulk Flowable and BEAUTIFIL Bulk Restorative are the new giomer bulk fill restoratives you can trust.

SUGRITIP-ENDO ASPIRATOR TIP FOR ROOT CANALS

The Surgitip-Endo has been specifically developed for drying root canals, and its flexible front section allows comfortable insertion in hard-to-reach root canals without having to bend the tip of the aspirator. According to Coltene/Whaledent, this was achieved by developing a special multi-part, fully rotating ball joint.

Advantages of the Surgitip-endo aspirator tips are as follows:

- It has an innovative ball design, which ensures optimal aspiration and good canal access.
- It is ideally suited for work under the operating microscope.
- Thorough drying of the canals optimizes adhesion of the filling materials to the root canal walls.
- The time required for final drying of the canal with paper points is reduced.
- The aspirator tips are packaged individually and hygienically and are ready for immediate use.

Buy three syringes of BEAUTIFIL Bulk Flowable or Beautifil Bulk Restorative and get one Beautifil Bulk syringe free. (Photo/Provided by Shofu Dental)

For a demonstration of the BEAUTIFIL Bulk Flowable and BEAUTIFIL Bulk Restorative, stop by the Shofu booth No. 730. Scan the QR code below to view a live demonstration of giomer filler neutralizing lactic acid on contact.

Here at Hinman

For more information, stop by the Coltene/Whaledent booth, No. 1237, here at the Hinman Dental Meeting.
Showcasing CariVu: A new approach to caries detection

By DEXIS Staff

The new CariVu™, a compact, portable caries detection device, is creating quite a buzz here at the Hinman Dental Meeting. If you have yet to stop by the DEXIS booth, No. 1001, to see this new product, then you owe it to yourself to take a look today.

DEXIS CariVu uses unique, patented transillumination technology to provide the ability to easily detect a range of carious lesions (occlusal, interproximal, recurrent) and cracks. This new system employs near-infrared light, which, in images, turns the natural tooth transparent and the caries dark, similar to radiographs, thus making it a view that is familiar to clinicians.

Not only are CariVu images easy to read and understand, they are captured and stored with the patient’s other images in the DEXIS software. Because all intra-oral X-rays, camera and CariVu images for the select tooth appear side-by-side, the clinician can quickly compare them to make a diagnosis and decide on a course of treatment. These images can also be shared with patients so they may better understand the need for preventive or restorative care.

The technology behind CariVu offers an advantage in diagnosis of caries over systems that rely on fluorescence reactions, which are typically denoted by colors or numeric values. In laboratory testing, this new transillumination device showed the view of the lesions on the images correlated well with their actual physical conditions. With CariVu, the dentist therefore gains a more accurate view of the actual carious lesion’s shape and size, not just an indication of the presence of decay.

Be sure to get your hands on CariVu in the DEXIS booth, No. 1001.

Here at Hinman

To see the CariVu for yourself, stop by the DEXIS booth, No. 1001.

- Dede Targowski demonstrates the CariVu at DEXIS Digital X-ray (booth No. 1001). (Photo/Fred Michmershuizen, Today Staff)

As a General Dentist, do your patients want straight teeth?

booth 1049

Six Month Smiles®
George Taub, a third-generation family member who started working for the company in 2004 after six years as an art director and freelance designer, decided it was necessary to re-create the company brand with a sleek and highly recognizable mark. “I love my grandfather, but George Taub Products and Fusion Co. Inc. was just too long a name,” Taub said. “TAUB needed a look that stood out from the crowd. As an established company, I wanted to create a mark that was unique, new and fresh yet easy to remember and captured aspects of previous logos, so as to be familiar for customers.”

The launch of FUSION-Zr Esthetic Resin Cements
As the official launch at the 2014 Chicago Dental Society approached, TAUB Products was busy developing creative and cutting-edge design elements for its new state-of-the-art self-adhesive resin cements. FUSION-Zr Cements, available in light cure or dual cure, are for the permanent cementation of all-ceramic restorations, zirconia, CAD/CAM materials, veneers, crown and bridge, inlays/onlays, PFM, posts/fiber posts and natural tooth structure.

TAUB named the cements FUSION-Zr to give tribute to “Fusion” in the company name and the first of its kind blockbuster product, Fusion – Silane Primer. TAUB added “Zr” to the name because the cements adhere very nicely to zirconia.

“We felt that using the FUSION-Zr name was a great way to reuse and add a new product line to a prestigious mark in the dental industry,” Taub said.

“We designed the logo icon in the form of a star that represented the definition of FUSION and paired the whole logo with an incredible red glowing image of the ic1396b Elephant Nebula, photographed by astrophysicist Dr. Nick Wright for IPHAS.org. Since nebulas of this nature are where ‘fusion’ stars are born, using all these graphic elements together was a natural choice for this product.”

Below is the new FUSION-Zr. The logo is visible on the box. (Photo/Provided by TAUB Products)
0% VANADIUM

0% ALUMINUM

100% STRONGER THAN CP Ti

66% STRONGER THAN ELI Ti

20% FASTER CELL ADHESION

100% AMERICAN MADE

100% BETTER THAN YOUR CURRENT IMPLANT SYSTEM

BIOTANIUM™
A SAFER, SUPERIOR IMPLANT FROM THE NANO LEVEL

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COME BY AND RECEIVE FIRST IMPLANT WITH DRIVER AND ABUTMENT FOR $125.00

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SharperPractice: The Bat Cave of dentistry

By SharperPractice Staff

SharperPractice specializes in distributing innovative products from around the globe that are “Best in Class.” For more than 20 years, the company has been in the business of providing the most advanced intraoral camera solutions in the industry – as well as innovations that increase efficiency for the dental office.

Some dentists who have visited the SharperPractice booth in a dental meeting exhibit hall refer to it as the “Bat Cave” because they are amazed at the quality and innovation in the products presented.

The company’s flagship product, the DocPort i.o. intraoral camera, features a fog-free, focus-free design for ease of use and crystal-clear imaging. Image acquisition is hassle-free via the easy-touch capture button located on the camera wand or with the optional USB footswitch. Direct connection to USB ports using a standard, inexpensive USB cable eliminates potentially costly cable repairs, and the camera is supplied with a remote automatic on/off handpiece holder.

Designed to integrate directly with any dental software platform in both PC and Macintosh environments, DocPort i.o. is an easy choice for quality dental imaging.

New from Carl Zeiss — and from others

As many as 75 percent of adult patients experience some degree of anxiety when visiting the dentist. Tackling patient anxiety is not always a simple solution for a dental practice. One of the most effective and natural ways of putting them at ease is through distraction, which can take the mind’s attention away from the sights and sounds of the dental office to a more calm and peaceful place.

Thanks to the Cinemizer OLED, your patients can experience high-quality 2-D or 3-D videos during almost any procedure in a comfortable, convenient and immersive environment. This will help them relax and forget where they are, decreasing anxiety and stress and improving their overall experience in your office.

SockIt! is the first and only wound dressing specifically designed for oral use. It’s as simple as performing the procedure as you normally would, then applying SockIt! chairside and sending the remainder home with the patient. You can use it after any procedure, and it does not replace anything else in your office. Stop by the SharperPractice booth to sign up for a free product evaluation.

FlashMax P3, one of the most powerful curing lights in the world, has a wide-spectrum output of more than 5,800 mw/cm² and cures 3 mm layers of most materials in only two seconds. Manufactured in Denmark, the FlashMax P3 features a unique ergonomic design with simple identical bilateral controls in a cordless form factor. Replaceable smart-charge battery technology allows the light to charge throughout the day on its 360-degree base and activates 200 cures on a single charge. It contains nearly three times the power of plasma arc lights at a fraction of the cost.

The EverClear mirror is a must for every dental office. This is the mirror you never have to wipe. Gone are the days of constantly wiping handpiece spray and debris from a dental mirror. Gone are worries about the assistant’s air spray keeping the mirror clean. No longer will dentists twist their backs and necks to get a direct view of the tooth, when a spray-covered mirror stops serving its purpose.

Only the best in class products and services become SharperPractice offerings, according to the company.

For more information, you can visit www.sharperpractice.com or stop by booth, No. 330, here at the Hinman Dental Meeting.

Cinemizer OLED virtual reality video glasses from Carl Zeiss. (Photos/Provided by SharperPractice)

Here at Hinman

To see some of SharperPractice’s offerings, stop by the booth, No. 330.

The I-DENT EverClear mirror, right, never needs to be wiped clear of handpiece spray and other debris (as opposed to a regular mirror, left), ensuring constant unobstructed view of your work zone.

The I-DENT EverClear mirror
According to a 2011 Wall Street Journal article, many Americans avoid going to the dentist until absolutely necessary because of fear of the dental drill. Solea™, the first CO2 laser cleared by the FDA to ablate hard and soft tissue, is forging a new era of a patient experience free of the drill, the pain, the noise and the fear associated with it.

Virtually eliminating the drill
Solea’s proprietary technology — its unique wavelength of 9.3 microns and its computer-aided preparation (CAP) system — enables dentists to create CAD/CAM-ready preparations. The 9.3 micron wavelength has the ability to ablate both hard and soft tissue, as well as decayed tissue.

By eliminating the drill from the patient’s experience, dentists can remove the sound, the vibration and the dread associated with it.

New patient experience
Dr. David Fantarella of North Haven, Conn., has integrated Solea into his practice and has been treating patients with the laser system since August 2013.

“I use Solea on nearly every patient, every day, because its unique wavelength offers the ability to cut hard tissue safely, effectively and with more precision than the drill,” Fantarella said.

“Many of my patients, particularly kids coming to the dentist for the first time, walk out of my office without having to experience the drill at all, and they leave anesthesia-free because the laser produces an analgesic effect.”

Current Solea users report that more than 95 percent of treatments with Solea are anesthesia-free, with approximately 95 percent of those patients reporting that they feel no pain. This applies to preparations that are done 100 percent with a laser in addition to those that are finished with the drill.

Fantarella has been a practicing dentist for the past 15 years in Hamden and North Haven. He specializes in general, implant, cosmetic and laser dentistry. He received his doctor of dental medicine degree from University of Connecticut School of Dental Medicine.

Visit booth No. 239 to meet Fantarella and to cut both hard- and soft-tissue samples with Solea. For more information, visit www.convergentdental.com.

Reference

Here at Hinman
To check out the Solea for yourself, to meet Dr. Fantarella or to cut both hard- and soft-tissue samples, stop by the Convergent Dental booth, No. 239.
MIS Implants poised for growth in 2014 with new products, team

By MIS Implants Technologies Staff

Since establishing the U.S. distributorship of MIS Implants Technologies more than 10 years ago, CEO Motti Weisman has led the company to experience significant growth year after year. This year, however, is one with even greater potential as the company expands with new products and a growing team of outside sales representatives.

One of the most exciting innovations that the company launched recently is the MGuide guided surgery system. It has already received enthusiastic reviews by the doctors who have used this service, according to MIS. There is no initial investment in software, as it does not need to be purchased. Planning is done by the doctor and MCenter technicians. The doctor provides specific digital files and impressions or stone models.

This data is transferred to the advanced MGuide software and a phone appointment is then scheduled between the doctor and the MCenter technician. At this time, the technician “shares” his computer screen, so the doctor can direct the planning process. Once the plan is approved the surgical stent is then manufactured in house in a state-of-the-art 3-D printer. Metal sleeves are attached, and the case is ready to be shipped.

The MGuide surgical stent is unique in a number of ways, MIS says. The stent is designed to be as open as possible to facilitate improved visibility and irrigation. Also, there are no “keys” through which the osteotomy is traditionally created. Instead, those metal sleeves are preset to the precise height to achieve the predetermined depth of the osteotomy. The implant itself can also be placed through the stent, if the clinician desires. Without those keys, there is greater access to the posterior section of the mouth. Additional information and videos can be seen at www.mcenterusa.com.

The MIS regenerative portfolio has also recently grown. Partnering with TissueNet of Orlando, Fla., MIS has now added allograft products which include cortical cancellous and cortico/cancellous products. These are packaged in vials ranging from .25cc (perfect for a small single tooth extraction) to 5 cc in volume. There are also xenografts well as synthetic products in its 4Bone line.

The BondBone product, a unique biphasic calcium sulfate grafting material, is comprised of a proprietary combination of hemihydrate and dehydrate calcium sulfate powder. Preset seed particles allow it to set in the mouth without being affected by blood or saliva. It can be used as a stand-alone product or as part of a composite graft with other granular grafting materials. When used in the latter manner, it acts like a cement, bonding the normally transient particles to the recipient site.

The MIS salesforce also saw expansion during the past year as new territories were added in multiple states. Along with new field representatives, the sales management team has also grown. Three new regional managers have been added to oversee local representatives. All regional managers came to the company with strong dental implant management experience and are an excellent resource for the newer as well as experienced reps. The managers as well as several of the newer reps have already successfully completed training in Israel as well as training in the U.S. corporate offices.

MIS Implants Technologies is first and foremost a dental implant company. Its flagship Seven system continues to benefit doctors by offering a high-quality product with a wide variety of restorative options, the company asserts. Single, multi-unit, custom abutments and more are all options with this system.

New to the MIS family of implants is the C1 system. This features a conical connection and platform switching. Simplicity is key for all MIS products, and the C1 with its simple surgical kit is no exception.

MIS products are sold globally in more than 60 countries making it one of the largest dental implant companies in the industry. With a state-of-the-art manufacturing and research and development facility in Israel, MIS is poised to continue to increase its market share with new and innovative products.

Weisman is dedicated to offering excellent products and service. As MIS’ team has noted; it is no wonder that a company with his leadership is on such a growth trajectory. Please visit www.misimplants.com to learn more.
NOMAD: The handheld X-ray that does what wall mounts can’t

By Aribex Staff

For almost a decade, NOMAD has been quietly ripping the X-ray system off the wall and putting it into the hands of the dental team. The company manufactures a handheld, completely mobile X-ray system that travels from operatory to operatory. One NOMAD does the work of multiple, wall-mounted systems, which can save the typical dental practice thousands of dollars in equipment costs. Moreover, because NOMAD enables dental team members to safely and effectively stay with their patients during procedures, a bitewing series can be completed in half the time required by a wall-mounted system.

Unlike conventional wall-mount and portable X-ray systems, NOMAD is lightweight, rechargeable (battery-powered) and can go anywhere. Dental professionals around the world have chosen NOMAD as their preferred X-ray device, with more than 14,000 NOMADs now in use.

The steady adoption of this game-changing technology is a strong indicator that dental professionals are catching on to this wave of the future. Modern dentistry practitioners should consider why NOMAD is both a savvy business decision for their practice and a compelling opportunity to provide better care to their patients. This device offers any practice extensive advantages.

- **Fast uptime.** Next-day delivery. No installation required. Immediate use.
- **Fast workflow.** Staff can stay with patients. Faster image acquisition process.
- **Good investment.** Avoid lost revenue. Set your practice for the future.

"NOMAD is the smartest investment a dentist can make if he or she needs to replace a wall-mount X-ray machine," said Ken Kaufman, general manager of NOMAD. "Our latest model, the Pro 2, easily performs the job of two or three wall-mounts and serves as a backup if any other X-ray machines go down. It saves time and money, and ensures a dental practice is seeing as many patients as possible."

For those who decide to replace their wall-mount with this handheld device, NOMAD is offering a limited-time $250 rebate. The rebate redemption is an easy, three-step process. Visit www.aribex.com/rebate to learn more.

"Why would you ever want to be tethered to a wall or pass through, fight arm drift and leave the procedure?" Kaufman asked.

"Many previous owners of wall-mounts have evolved to this game-changing handheld device to improve their practice workflow and flexibility, offering a tangible and real return on investment."

To learn more, contact your equipment dealer, an Aribex sales representative or visit www.aribex.com.

"We’re excited to show our customers what this technology can do for their practice," said Kaufman. "We invite visitors to our exhibit, booth No. 901, at the Thomas P. Hinman Dental Meeting for a special demonstration of our NOMAD Pro 2."

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**Here at Hinman**

For a demonstration of the NOMAD Pro 2, stop by the booth, No. 901.

**The NOMAD Pro 2. (Photo/Provided by Aribex)**

"NOMAD is the smartest investment a dentist can make if he or she needs to replace a wall-mount X-ray machine," said Ken Kaufman, general manager of NOMAD. "Our latest model, the Pro 2, easily performs the job of two or three wall-mounts and serves as a backup if any other X-ray machines go down. It saves time and money, and ensures a dental practice is seeing as many patients as possible."

For those who decide to replace their wall-mount with this handheld device, NOMAD is offering a limited-time $250 rebate. The rebate redemption is an easy, three-step process. Visit www.aribex.com/rebate to learn more.

"Why would you ever want to be tethered to a wall or pass through, fight arm drift and leave the procedure?" Kaufman asked.

"Many previous owners of wall-mounts have evolved to this game-changing handheld device to improve their practice workflow and flexibility, offering a tangible and real return on investment."

To learn more, contact your equipment dealer, an Aribex sales representative or visit www.aribex.com.

"We’re excited to show our customers what this technology can do for their practice," said Kaufman. "We invite visitors to our exhibit, booth No. 901, at the Thomas P. Hinman Dental Meeting for a special demonstration of our NOMAD Pro 2."

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U.S. Design Patent No. D496,708
Utilizing a digital workflow for provisionalization with BioTemps

Case illustrates that digital impressions aren’t limited to final restorations and single units

By Tarun Agarwal, DDS, PA

Today’s digital impression technology enables dentists to create a virtual, computer-generated replica of the hard and soft tissues in the mouth quickly and accurately, using their choice of optical scanning device. As an ardent supporter of digital impressions, I make every attempt to digitize our restorative workflow. There are numerous benefits to a digital impression:

- **Efficiency:** It takes less time to take a digital impression than a traditional impression.
- **Quicker turnaround time:** Clinicians often forget or fail to realize the true value of this. Getting restorations back faster is better for the patient, the practice and the overall case outcome.
- **Cost savings:** Have you ever calculated the cost of taking a traditional impression for a final restoration? If you add up what your office spends on impression materials, chair time and case shipping fees, you will be amazed at how much is spent on traditional methods.

**Case presentation**

The female featured in this article has been a patient in our practice for nearly eight years. She has a porcelain-fused-to-metal bridge from tooth #5 to #12, replacing missing #7 to #10. She is not terribly unhappy with the look and feel of the bridge, but the bridge has been no stranger to the big issue facing PFM restorations: the chipping of porcelain from the metal substructure.

During the past eight years, we have patched various corners and lingual surfaces.

Recently, the patient agreed to replace her long-span PFM bridge with an implant-supported bridge on #7 to #10 and individual crowns on the abutment teeth. However, she was adamant about not going a day without teeth. We advised her that this would not be an issue.

Because of the complexity of her implant surgery, immediate loading was not possible. This meant we needed a long-term esthetic provisional that would last the duration of the treatment, could be removed for surgery and was adjustable for postsurgical contouring.

A BioTemps® provisional bridge (Glidewell Laboratories; Newport Beach, Calif.) was the quick and easy answer.

Traditionally, BioTemps are made prior to preparation and relined chairside. In this case, I wanted to have the BioTemps made to fit the final preparations of the abutment teeth, which would later be converted to individual restorations. As an advocate of digital impressions, I chose to follow a digital workflow.

The provisional BioTemps bridge offers the following important advantages in this case:

1) **Trial smile:** The patient gets a “trial” of the new contours. Any modifications to length or contour can be made chairside, avoiding costly remakes and unhappy patients.

2) **Long-term durability:** Because of the complexity of this case, full treatment will take well over 12 months. An acrylic provisional fabricated chairside simply won’t hold up this long.

3) **Removability:** For implant surgery, the specialist will need the ability to remove and re-cement the provisional with relative ease.

4) **Adjustability:** The necks of teeth #7 to #10 will need to be adjusted after surgery to remove any pressure to the surgical sites. BioTemps are easily adjusted.

5) **Surgical assistance:** The contours and esthetics of the BioTemps will serve as a “guide” to the surgeon for grafting and placement of the implants.

As this case illustrates, digital impressions are not just limited to final restorations, and certainly not just to single units. It’s time for you to take a closer look at digital restorative technologies and see how they can benefit your practice and your patients.

**Here at Hinman**

For more information on BioTemps provisional bridges, stop by the Glidewell booth, No. 1825.

**About the author**

Dr. Tarun Agarwal maintains a full-time private practice emphasizing esthetic, restorative and implant dentistry in Raleigh, N.C. You can contact him via e-mail at dra@raleighdentalarts.com or visit www.raleighdentalarts.com.

**Fig. 1:** Preoperative photograph of the patient’s existing longspan PFM bridge. Note the bulky and gray margins, unesthetic contours and ‘patch’ composites used to repair areas of chipped porcelain.

**Fig. 2:** The original abutment preps are cleaned and reduced to the appropriate margin thickness.

**Fig. 3:** A digital impression is taken using the CEREC Omnicam (Sirona Dental Systems Inc., Charlotte, N.C.). This occlusal view illustrates how precisely the Omnicam captures a full-color digital impression.

**Fig. 4:** A labial view of the abutment teeth preparations captured with the CEREC Omnicam. An added benefit of digital impressions is that changes don’t require an entire new impression, only a new digital capture of the changed area.

**Fig. 5:** The BioTemps bridge at delivery, seated with provisional cement.

**Fig. 6:**
There has been a major movement in dentistry to preserve as much tooth structure as possible, and tooth alignment has become the cosmetic treatment of choice. Short-term orthodontics (STO) for general dentists is a cosmetic solution for adult patients and is a great service we can add to our practices. It is easy, effective and patients want it.

As with any treatment, case selection is paramount in deciding whom to treat. It is a useful alternative to traditional treatment options such as crowns and veneers, and it is not only less destructive but is also more cost-effective, meaning more patients can access this treatment and can achieve fantastic smiles in the space of only six months.

**Case presentation**

The patient came to us interested in veneers. After an initial consultation, it soon became apparent that placing veneers would have been a very destructive option, as a lot of preparation would have been needed to achieve an ideal cosmetic result.

After we explained the various pros and cons of veneers, the patient asked if there were any other options. Naturally, we then explained that one option is comprehensive orthodontics that would involve 12 to 18 months. We also described a more cosmetically focused approach, in the form of Six Month Smiles, that would straighten her teeth in about six months.

Having discussed the various merits and drawbacks of each option, the patient opted for Six Month Smiles, because the relatively short treatment time was appealing to her and she only wanted a cosmetic fix, not a functional correction that comprehensive orthodontics would have provided.

This case is an excellent example of the “ideal case” for GP short-term orthodontics. The patient’s molar and canine relationships were Class 1 on both sides with a normal tooth width ratio, upper-to-lower. We weren’t planning any anterior-posterior relationship changes, so this case was perfectly suited for a GP to complete.

After five months, the treatment was completed, and the clear brackets were removed. We then finished the case with tooth whitening to further improve the appearance of the patient’s teeth.

I have found that short-term orthodontics on adults can also lead to additional cosmetic work such as whitening or composite bonding to really finish the smile.

At the end of treatment, the patient was absolutely delighted with the results and has, in fact, become a great advocate for our practice. She’s even recommended a number of her friends to come and see us as a result of the treatment, and it’s extremely satisfying to see how much difference this simple, yet effective short-term orthodontic system can have.
‘Take CAD/CAM to the next level’

An interview with Tuomas Lokki, vice president at Planmeca Group and acting CEO of E4D Technologies

By Daniel Zimmermann, DTI

Finnish dental technology manufacturer Planmeca has recently made a significant equity investment in the U.S.-based high-tech medical device company E4D Technologies. In this interview, vice president at the Planmeca Group and acting CEO for E4D Technologies Tuomas Lokki sheds light on this new venture.

Mr. Lokki, why did Planmeca choose to invest in E4D Technologies?

We believe in the tremendous possibilities and future growth of CAD/CAM dentistry. As dentistry will be completely digital in the future, we believe it is vital to invest in the development of new and efficient practices. E4D is a long-term leader in advancing modern CAD/CAM dentistry, so we knew that joining forces with this high-tech medical device company would be a valuable addition to our own leading expertise in 3-D imaging and software solutions. Its special expertise and innovative ideas provide a great foundation for future projects that will combine the know-how of both companies.

What advantages will this investment offer dental customers worldwide?

The new partnership with E4D Technologies will enable us to offer our customers the most modern CAD/CAM innovations. Our product distribution in more than 120 countries combined with the cutting-edge E4D innovations will increase global prod-
uct availability and take computer-aided dentistry to the next level.

Our customers will also benefit from the innovative combination and seamless integration of Planmeca’s and E4D’s products and services.

**How will this improve the daily workflow at clinics?**

One great advantage is the integration of X-ray imaging and CAD/CAM into a single software platform, Planmeca Romexis. For the first time, customers will have the option of one software interface for both X-ray imaging and CAD/CAM work.

All patient data is also saved in the same database, and it can be shared immediately and easily through the clinic’s network or with the Planmeca Romexis Cloud service.

Furthermore, the restorations designed in the CAD module can easily be combined with the patient’s 3-D X-ray images for implant planning purposes, for example. For the patients, this means convenient same-day dentistry.

**Can you also tell us about the brand new intra-oral scanner that you launched recently?**

Our new Planmeca PlanScan intra-oral scanner is an ultra-fast, powder-free and open solution for 3-D digital impressions. Its advanced blue laser technology accurately captures hard and soft tissue of various translucencies, dental restorations, models and impressions.

It is the world’s first dental unit-integrated intra-oral scanner and can be used through a laptop as a standalone version. Together with our Planmeca Romexis software, the system supports an ideal digital treatment workflow.

**How will both Planmeca and E4D benefit from this investment?**

On the one hand, this investment strengthens Planmeca’s position in the fast-growing CAD/CAM business, and Planmeca benefits from E4D’s cutting-edge solutions and long-term CAD/CAM expertise. On the other hand, Planmeca’s extensive distribution network enables E4D Technologies to grow globally, and our leading dental-imaging solutions will be a valuable addition to the E4D CAD/CAM platform.

**Has this venture created any new needs for your company?**

Definitely, as we need to provide extensive CAD/CAM training for our distribution and customer network in more than 120 countries. Therefore, we have recently invested in new training, warehouse and production facilities alongside our Helsinki headquarters.

These new 10,000-square-meter facilities will help us address the growing need for training and education in this new field of dentistry. We are thrilled to be able to take CAD/CAM to the next level. Our innovations will change the concept of same-day dentistry completely and facilitate the workflow of dental professionals worldwide.

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**KURARAY AMERICA’S CLEARFIL UNIVERSAL BOND**

- Kuraray America introduces CLEARFIL Universal Bond, a single-component, light-cure bonding agent indicated for all direct and indirect restorations in combination with all etching techniques (total-etch, self-etch or selective-etch).

  - The bond is also indicated for the surface treatment of zirconia and silica-based glass ceramics (e.g., lithium disilicate).

  - According to the company, that makes the product truly “universal” without the need for a separate silane coupling agent.

CLEARFIL Universal Bond contains the “ORIGINAL MDP” adhesive monomer developed and introduced by Kuraray in 1983. Chair-side time is faster for the dentist, because of its short application time, according to the company.

The product is available through all major dental dealers.

For more information on CLEARFIL Universal Bond, or any other Kuraray products, visit www.kuraraydental.com, call (800) 879-1676 or stop by the Kuraray America booth, No. 801, here at the Thomas P. Hinman Dental Meeting.

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**Kuraray America’s Clearfil Universal Bond**

[Photo/Provided by Kuraray America]
Isolite delivers dental isolation technology

By Isolite Systems Staff

Dental isolation is one of the bedrock challenges in dentistry. The mouth is a difficult environment in which to work. It is wet and dark, the tongue is in the way, and there is the added humidity of breath, which all make dentistry more difficult.

Proper dental isolation and moisture control are two often overlooked factors that can affect the longevity of dental work — especially with today’s advanced techniques and materials. Leading dental isolation methods have long been the rubber dam — or manual suction and retraction with the aid of cotton rolls and dry angles. Both of these methods are time and labor intensive — and not particularly pleasant for the patient.

Enter Isolite Systems: Its dental isolation technology delivers an isolated, humidity- and moisture-free working field as dry as the rubber dam but with significant advantages, including better visibility, greater access, improved patient safety and a leap forward in comfort. Plus, it can do everything two quadrants at a time.

The key to the technology is the “Isolation Mouthpiece.” Compatible with Isolite’s full line of products, the mouthpiece is the heart of the system. It is specifically designed and engineered around the anatomy and morphology of the mouth to accommodate every patient, from children to the elderly.

The single-use Isolation Mouthpieces are available in five sizes and position in seconds to provide complete, comfortable tongue and cheek retraction while also shielding the airway to prevent inadvertent foreign body aspiration. Constructed out of a polymeric material that is softer than gingival tissue, the mouthpieces provide significant safety advantages, and their ease-of-use can boost your practice’s efficiency, results and patient satisfaction.

Whether you use the Isolite, Isodry or our new Isovac, our mouthpieces keep the working field as dry as a rubber dam but are easier, faster, safer and more comfortable for the patient. The safety advantages and ease of use will boost your practice’s efficiency, results and patient satisfaction.

Isolite Systems provides three state-of-the-art product solutions: Isolite, illuminated dental isolation system; Isodry, a non-illuminated dental isolation; and the new Isovac, dental isolation adapter.

Using the Isolation Mouthpieces, all three dental isolation products comfortably isolate upper and lower quadrants simultaneously while providing continuous hands-free suction. This allows a positive experience where the patient no longer has the sensation of drowning in saliva/water during a procedure and the practitioner can precisely control the amount of suction/humidity in the patient’s mouth.

Isolite Systems dental isolation is recommended for the majority of dental procedures where oral control and dental isolation in the working field is desired. It has been favorably reviewed by leading independent evaluators and is recommended for procedures where good isolation is critical to quality dental outcomes.

Visit the Isolite booth, No. 35, here at the Thomas P. Hinman Dental Meeting or go online to www.isolitesystem.com.
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