By Sierra Rendon, today Staff

As more than 30,000 dentists and dental professionals begin exploring all that the Chicago Dental Society’s 149th Midwinter Meeting has to offer, one thing quickly becomes clear: If you’re looking for the latest innovations in dentistry, you are in the right place!

More than 600 exhibiting companies from around the world have brought their newest and greatest products and technology to this week’s show. Companies such as the KaVo Kerr Group, which strategically unites leading dental consumable, equipment, high-tech and specialty brands under one global platform, and itself is featuring 20 new products here at the Chicago meeting.

Education from all the specialties

By Sierra Rendon, today Staff

If you have come to this week’s meeting hoping to learn new techniques or to make your current office protocol more effective, there are plenty of educational opportunities for you today.

Here are a few educational highlights for today:

- **Restorative dentistry:** “The Evolution of Digital Restorative Dentistry – LIVE!” featuring Dr. Alex Touchstone, Angela Guanzini, CDD, RDH, and Lee Culb, CDT. This free live patient demonstration from 9:30 a.m. to 12:30 p.m. will examine the possibilities of same-day restorative dentistry.

- **Special needs patients:** “Workshop: Anxious, Special-Needs Patients” with Dr. Harvey Levy will show attendees many tools used in the dental office to manage patients who have anxiety or special needs. In Room W475B, this 8:30-11:30 a.m. workshop is $90 and will provide three C.E. hours.

- **Looking into lasers:** “Reality or Hype? Lasers in Periodontal Pocket Surgery” with Dr. Lloyd Tilt will help attendees separate fact from fiction and to evaluate what laser might best fit each patient. In Room W475B, this 1:30-4:30 p.m. workshop is free and will provide three C.E. hours.
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S-PRG filler material clinically:

- Recharges fluoride when treated with fluoridated products
- Decreases acid production of cariogenic bacteria
- Neutralizes acid on contact
- Demonstrates an anti-plaque effect

Shofu Dental Corporation • San Marcos, CA
Here’s a sampling of some of the new products you can find in the aisles of the exhibit hall:

• **Advanced cone-beam solutions**: i-CAT, at booth No. 1200, is showcasing its new i-CAT FLX CBCT featuring award-winning FLX technology and new Tx STUDIO 5.3 treatment-planning software. The i-CAT FLX offers 3-D imaging at a dose lower than a 2-D panoramic X-ray with QuickScan.

• **New age in water flossing**: Waterpik® Inc. is introducing its Waterpik® Professional Water Flosser, a new compact and contemporary design with on/off water control on the handle, an LED information panel and seven water flosser tips. Check it out at booth No. 1611.

• **High-def loupes**: Orascoptic has new Nano HD loupes featuring high-definition, lightweight, comfortable loupes. Try them on at booth Nos. 3600/3801.

• **Broad array of innovations**: DEXIS, booth No. 1200, has its new CariVu caries detection device, DEXIS Mac software, DEXshield radiation-reducing sensor holder and DEXIS photo digital app. Visit them to learn more information about all the company’s new innovations.

• **Mouthwash for braces**: Specially formulated for orthodontic patients, ACT has its new ACT Braces Care anti-cavity fluoride mouthwash at booth No. 4611, available for attendees to try out on site. The mouthwash helps patients prevent caries and clean in and around fixed orthodontic appliances at the same time that it soothes oral tissue and freshens breath.
Scenes from Thursday

The exhibit hall floor is alive with activity Thursday morning.

Photos by Fred Michmershuizen and Sierra Rendon, today staff

The butterflies are back! See them spread their wings at Air Techniques (booth No. 838), where you can learn more about the Monarch line of infection control products and much more.

Nikko Solemsaas of HealthFirst staffs one of the company’s information booths. Visit HealthFirst at booth No. 3608 or 4250.

The folks at Keystone Industries (booth No. 3102) are all smiles. From left: Alejandra Molina, Otto Voit and Monica Rocca.

Dinah Auger, RDH, holds ACT Braces Care mouthwash at the ACT/Chattem booth (No. 4611) Thursday morning.

The Acteon booth (No. 2611).

Scott Headley, left, and Mike Codd of Water Pik show off the company’s new Waterpik Professional Water Flosser at booth No. 1611.
Stop by Sharper Practice (booth No. 4621) to try out a visual entertainment system for use by dental patients as they are having work done. From left: Cliff Magneson, Lois Magneson (wearing the device) and Neil Magneson.

Mark Eisen, left, and Lindsey Sibcy of DMG America (booth No. 2802).

A presenter offers educational information at Carestream Dental (booth No. 3801) Thursday morning.

Craig Conrardy, left, and Elizabeth Bair of Onpharma (booth No. 1143) with the company’s Onset device.

The folks at DentalVibe (booth No. 4517) want to help you make injections less traumatic for your patients. From left: Cliff Dodson, Daniel Savage and Bobby Glennon.

The guys at Kuraray America (booth No. 3730) are on hand with helpful information. From left: Peter Sowacki, John Catania and Max Funatsu.

Monica Villasenor of Glidewell Laboratories (booth No. 4420) shows off a tooth shaped pen the company is giving away here in Chicago.

You can get your picture taken with this big toothbrush at Crest Oral-B (booth No. 2402).
Stop by CareCredit (booth No. 1835) to learn how you can get a Pillow Pet. From left: Elizabeth Ashrafi, Kurt Kroening and Jynafer Yanez.

Stephanie Xelowski, left, and Lenny Sulksis of Shofu Dental Corp. (booth No. 2411).

The folks at Sesame Communications (booth No. 4433). From left: Travis Heimbigner, Karen Stedman, Tim Williams and Jay Fleming.

Tom Bender of Wykle Research (booth No. 908).

The NSK booth (No. 1233).

The guys at MIS Implants Technologies (booth No. 3733). From left: Ori Markowitz, Ryan Jones, Michael Gaisinsky and Damien Decker.

Michelle Schrock, left, and Lauren Smith of Ortho-Tain (booth No. 2409).

Meeting attendees stop by DentLight (booth No. 3706) to learn more about the company’s product offerings.

Howard Sorenson of Porter Instrument Co. (booth No. 3821).

Donny Chan, left, and Eshah Yip of the Malaysian Rubber Export Promotion Council (booth No. 432).
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Silent Nite® Slide-Link

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- Our No. 1 prescribed snoring and sleep apnea appliance
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Welcome to the Chicago Midwinter 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.
What do you have in common with 99% of dental professionals around the world...

...our outstanding portfolio of award-winning brands that you use and trust everyday.
New in Chicago: Planmeca PlanScan

By Fred Michmershuizen, today staff

Perhaps one of the more noteworthy product introductions here at the Midwinter Meeting is the Planmeca PlanScan. The intraoral digital scanner, driven by E4D Technologies, is on display at the Henry Schein booth (No. 2419, 2617).

The scanner is designed to be super easy, super accurate and super fast.

The device — along with new software that is set to be unveiled in March — is all part of a larger strategy designed to offer dental practitioners “choices that connect,” according to Robert Gottlander, vice president of global prosthetic solutions at Henry Schein.

“If we talk about digital dentistry within Henry Schein, our idea is that we want to work in open architecture,” Gottlander said during an interview at the Henry Schein booth Thursday morning. “We want to have solutions that connect, choices that connect.”

“We believe it is important to introduce digital technology into the practice and into the laboratory,” Gottlander said. “We think it is important not only to talk about technology, but what the technology can do for the patient — because in the end somebody has to be treated. So it’s not only about technology, but how to make this work in the practice, how can we make this work in the laboratory.”

“We put a lot of effort into evaluating needs in the office and the laboratory, and then together with the profession come up with the best solution,” he said.

“What’s different about the PlanScan, Gottlander said, is that it is connected with the Romexis software, which means that one can offer treatment planning in a completely digital environment. He said it is especially valuable when working on implant cases.

Gottlander said the reaction so far has been “very positive.”

“Doctors want to buy technology for the office that they can combine,” he said. “What we see as our vision is to incorporate clinical software with practice management software, and all of this is to make it easier in the office,” he said.

Planmeca makes strategic investment in E4D Technologies

Planmeca recently announced it has made a non-controlling, strategic investment in E4D Technologies, developer of the E4D CAD/CAM Restorative System.

This strategic investment reinforces Planmeca’s on-going commitment to help dental providers improve patient care by offering a comprehensive portfolio of integrated digital dental solutions for dentists and dental laboratories.

Here in Chicago

To learn more about this new technology, stop by the Henry Schein booth No. 2419, 2617, here at the Midwinter Meeting.
Save $117,000 in 4 Steps with Zirc

1. Be WOWED by the total cost savings from this practice case study

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Actual Case Study for a 2 location practice with a total of 9 operatories. Data shown is after implementing Zirc products and techniques.
New study notes significant radiation dose reductions from i-CAT FLX

A recently published study regarding CBCT scans and radiation dose by Drs. John Ludlow and Cameron Walker reports encouraging news for i-CAT FLX cone-beam 3-D imaging. The study, published in December in the American Journal of Orthodontics and Dentofacial Orthopedics, assessed effective doses of radiation for adults and children, resulting from various combinations of field-of-view size and field location in Imaging Sciences’ i-CAT FLX. The resulting information can help dental practitioners to make prudent decisions about low dose imaging for the best interests of their patients and their practices.

Ludlow, a distinguished researcher in imaging technology and radiation dose, noted that these types of studies are important because not only do they allow clinicians to compare the relative risk of different examinations, techniques and equipment but, “Together with information on image quality and diagnostic utility, practitioners can make evidence-based decisions on when to prescribe radiographic imaging and what technologies and techniques to use in acquiring diagnostic images.”

The data from the study was obtained using technology to replicate radiation dose on humans in accordance with recommendations from The International Commission on Radiological Protection (ICRP) on calculation of effective dose. There is a wide range in radiation dose of CBCT units. Ludlow's study noted, “Whereas most CBCT examinations have been reported to impart a much lower dose, CBCT units from different manufacturers vary in their doses by as much as 10-fold for an equivalent field of view (FOV).”

The tests demonstrated that i-CAT FLX QuickScan+ protocols resulted in significantly lower doses than standard protocols for the child (P = 0.0167) and adult (P = 0.0055) phantoms. It continued: “The QuickScan+ protocol provided a substantial 87 percent reduction in dose compared with the standard exposure protocols in both child and adult phantoms. Thus, when QuickScan+ protocols can be used, they will provide a clinically meaningful reduction in dose.”

Ludlow noted the study indicated, “The QuickScan+ image volume provides 3-D information with minimal geometric distortion that is unavailable in any 2-D image and at a comparable dose.”

When deciding on which 3-D cone-beam imaging system to implement in their practices, clinicians can use the information from this study to make 3-D imaging choices for the best interests of the patient. The benefits of cone-beam 3-D imaging are becoming widely recognized for implants, oral surgery, orthodontics and other specialties because of the additional vital information on bone structure and tooth orientation that scans provide.

From implants to surgical guides and restorations, i-CAT integrates with orthodontic systems, CAD/CAM programs, imaging software and practice management programs. i-CAT FLX also is equipped with the award-winning iCAT STUDIO® software. Armed with these latest results from the Ludlow study, why not have all of the benefits of CBCT imaging and a lower dose? Visit the i-CAT booth, No 1219, and see how i-CAT FLX cone-beam 3-D imaging can contribute to more effective diagnosis and treatment. While you’re there, enter for your chance to win $50,000 off an i-CAT FLX!

To access the abstract for the research, visit www.ajodo.org/article/S0889-5406(13)00074-9/abstract?source=aemf. Ludlow is not an employee nor does he have any financial interest in Imaging Sciences International, LLC.

Reference

For more information, stop by the Hu-Friedy booth, No. 3455, products that are currently available can be found at www.hu-friedy.com/IFEMS.

Hu-Friedy, Electro Medical Systems form strategic alliance

Hu-Friedy, global leader in the manufacturing of dental instruments and products, and Switzerland-based Electro Medical Systems (EMS) announced Thursday at the Midwinter meeting a strategic alliance to deliver the most clinically advanced prophylaxis protocol to the U.S. and Canadian markets by leveraging Hu-Friedy’s heritage in high-quality hand instrumentation, coupled with EMS offerings in piezo power scaling and air polishing.

With this new alliance, Hu-Friedy is now the exclusive U.S. and Canadian distributor of EMS Piezomed® power-scaling technology, as well as AIR-FLOW® air polishing products. Combining these technologies with Hu-Friedy's extensive line of hand scaling instruments offers clinicians access to a comprehensive prophylaxis treatment method, backed by Hu-Friedy service and support.
Partnering **bonding strength with clinical success.**

Parkell’s 4-META-Based Bonding and Cementation Systems: **SEcure**® and **Brush&Bond**™

A revolutionary 4-META adhesive resin cement system that delivers outstanding bond strength and clinically proven advanced sealing properties.

- Quick and easy to use.
- Superior long-term bond strength.
- No separate etching when using Parkell's unique, low viscosity, self-etch primer.
- Seals and protects the tooth from marginal leakage.
- Dual-cure will also cure in areas where a curing light can’t reach.
- Virtually no post-op sensitivity.

**SEcure**® is one of the most affordable resin cement systems available today, providing **STRONGER, MORE RELIABLE BONDS TO CUT ENAMEL AND DENTIN** than other leading brands. How? By way of its penetration enhancing molecule—4-META. This unique monomer quickly and efficiently permeates etched enamel and dentin to form a hybrid layer between the tooth and adhesive resin. **SEcure’s biocompatibility** not only creates a dependable bond between prosthesis and tooth surface, it also occludes patent tubules to guard against external stimuli, bacteria and other sensitivity causing agents. Virtually shuts down microleakage, too, for stain-free margins.

As far as application goes, **SEcure** is a piece of cake. You start out by conditioning the tooth with **SEcure’s low viscosity, self-etching primer.** Simply allow it to sit undisturbed for 10-20 seconds and then gently air blow the liquid for 6 seconds to ensure that the area is not overly wet. That’s it!

Next, apply **SEcure’s resin cement.** It flows effortlessly out of its automix syringe to provide clean, accurate placement of the prosthesis. It’s also conveniently dual-curing once in place. You can light-cure it in about 40 seconds, or allow it to self-cure in approximately 2½ minutes. This twofold convenience means you can use **SEcure** for anterior as well as posterior jobs, and in areas where your curing light can’t reach—under FFM crowns, down post holes—wherever!

Clean-up is a breeze. Upon seating the prosthesis, you can either immediately wipe away the excess cement while it’s still soft, or peel it off after a 2-3-second exposure to any dental curing light.

As for the results? You get a securely placed restoration, a patient who doesn’t experience any post-op sensitivity and savings that go directly into your wallet!

**Tried & true, the easy-to-use, high-strength bonding agent that protects and desensitizes!**

- Bonds direct and indirect composite restorations to all tooth surfaces.
- Permanently seals the tubules to prevent sensitivity.
- Protects the pulp against microleakage and bacterial invasion.
- Creates an acid- and wear-resistant shield for the tooth.
- Doubles the surface hardness of the preparation.
- Cures with all currently available curing lights.
- So thin it won’t affect crown fit.

Reduce your chairside time and simplify that growing collection of adhesives in your operatory with Parkell’s remarkably efficient self-etch bonding system, **Brush&Bond**™. It works with all light-, self- and dual-cure resins—something not every self-etch bonding material can lay claim to. You can use it to bond direct and indirect restorations to all tooth surfaces, seal crown preps, assist with core build-ups, and act as a relief agent for patients with dentin hypersensitivity.

In the three steps it takes to apply **Brush&Bond**, you’ve created a durable, bonded, tri polymer shield that protects the tooth like bionic enamel and also:

- **Renders the tooth acid-resistant.**
- **Permanently seals tubules to prevent post-op sensitivity.**
- **Guards pulp against harmful pathogens that penetrate leaky margins.**
- **Increases the hardness of the dentinal surface up to 10 times more than dentin coated with conventional bonding agents!**

The film thickness of some self-etch adhesives can measure as much as 50 microns thick. An application of **Brush&Bond** creates a film just 5 microns thick, so it has no adverse effects on final crown fit at all!

> **Visit us at booth #4200 to learn more!**

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Order direct from Parkell for a **45-Day Risk-Free Trial!**

* If you’re not satisfied, list us within 45 days, and have it picked up at our expense, and give you a full refund—including your original ground shipping charges (Expess shipping will not be reimbursed). That offer only while product is in stock and directly from Parkell, Inc.  © 2004, Parkell, Inc.
By DentLight Staff

Nano 2S, manufactured by DentLight, is engineered to deliver the industry’s most durable and easy-to-use headlight for dentists, hygienists and dental assistants. The Plano, Texas-based supplier is showcasing the new release here at the Chicago Midwinter Meeting at booth No. 3706.

As Dr. Richard Liu, president of DentLight, said, Nano 2S is like the iPhone 5S of dental headlights, making everyday life of dentists simple, easy, comfortable and worry-free. And best of all, it comes at an affordable price.

Nano 2S uses a custom Teflon wire four times as small as a regular wire but with 10 times the strength. Together with a patent-pending connector design, Nano 2S solves your headaches of wire management and broken connectors in headlights.

Designed with heavy-duty everyday use in mind, Nano 2S embodies a high-capacity lithium battery in a small aluminum pack with a running capacity of up to 24 hours. The digital battery pack can be activated hands-free and has a battery icon and audible indicator that gives a two-minute warning prior to battery shut down.

Nano 2S is a comfortable fit on any eyewear and is the heavy-duty headlight that dental professionals can count on.

“Nano 2S marks the fourth-generation headlight from DentLight” Liu said. “The amount of technology and innovation integrated with the new light is remarkable, from the delivery of pure white optical beam to the size of the lamp, the most advancement of wire and connector, and the battery structures.”

He said the light adds to efficiency and profitability for dentists, as well as helping to make the workplace pain-free.

As Dr. Doug Lamber said, “Nano is so light, so bright … the perfect addition to any magnification system!”

Jose R. Alvarado, DMD, says he is sold, too.

“I was planning to buy a microscope for doing my root canals, but I don’t think it’s necessary with my new Dentlight,” Alvarado said. “It’s easier to locate the canals on molars and also for crown and bridge preparations and for fractured root removals. It’s a whole new world, with Dentlight!”

In addition to the Nano 2S, DentLight is also showcasing the new iZoom HD through-the-lens loupes and SafeLoupe Laser Filter to improve vision, ergonomics, oral care and your eyes for life.

“Nano is the ideal combination of size and power in clinical illumination,” Dr. George Freedman said. “SafeLoupe Filters enable hassle-free and totally comfortable laser procedures and are manufactured to fit on all major loupe brands.”

Several other LED optics solutions are also available from DentLight. The new FUSION 4 curing light surpasses its award-winning predecessor by not only offering ultrafast and reliable curing functions but because it can be used for caries, canals, early cancer detection and teeth whitening for added profit streams.

To learn more about DentLight products, such as the Nano 2S, stop by the company’s booth, No. 3706.
Injection pain is perceived in the brain

By Steven G. Goldberg, DDS

The International Association for the Study of Pain defines pain as, “an unpleasant sensory and emotional experience associated with actual or potential tissue damage.”

As dentists, it is our great fortune to have acquired the necessary skills to help alleviate the pain of those who are suffering. Isn’t it ironic that the beginning of each dental procedure to alleviate pain begins with a needle injection causing tissue damage resulting in additional pain?

How injections cause pain
• Transduction: A needle injection of local anesthetic becomes a noxious stimulus as it pierces the oral mucosa, causing tissue damage as well as tissue distention and tearing with the submucosal deposition of anesthetic solution. Nociceptors, specialized primary sensory neurons located under the surface of oral tissues, encode this noxious stimuli, converting it into nerve impulses known as action potentials.
• Conduction: The impulses travel along A-delta and C nerve fibers to the spinal cord. It is in the dorsal horn of the spinal cord where it undergoes synaptic transmission and then continues on to the brain. Note: In the case of orofacial pain, the signal passes through the trigeminal ganglion and then on to the brain.
• Perception: Once in the thalamus, nerve impulses are directed to the somatosensory cortex of the brain. This is where the occurrence of tissue damage is perceived as pain, emotionally processed and acted upon, a process known as nociception.

The Gate Control Theory

Thanks to the work of Drs. Ronald Melzack and Patrick Wall in 1965, we know that there is a “Gating” mechanism located in synapses within the dorsal horn of the spinal cord and similarly in the trigeminal ganglion. This “gate” can either block pain signals or permit them to travel to the brain.

When a counter-stimulation (in this case, vibration) is applied in close proximity during a painful occurrence (e.g., a dental injection), the sensation of vibration reaches the sensory area of the brain first, resulting in a closure of the synaptic pain gate to the sensation of pain — a process known as modulation.

DentalVibe blocks injection pain
I invented the DentalVibe to tap into the merits of the Gate Control Theory by effectively stimulating cutaneous mechanoreceptors, Pacinian and Meissners’ Corpuscles, as a counter-stimulation to injection pain. It is a patented, handheld, cordless device that delivers soothing, pulsed vibrations via a disposable, bifurcated, latex-free comfort tip to the site where an injection is simultaneously administered. This specialized tip is laser calibrated to a specific frequency and amplitude, sending the sensation of vibration to the brain along A-beta nerve fibers, effectively closing the pain gate.

I have personally received the ultimate compliment from Melzack himself, with gracious permission to publish this quote: “Dear Dr. Goldberg, You’ve found an interesting and clinically useful way to diminish pain! Good for you! Best Wishes, Ronald Melzack”
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 weary 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, fewer incremental steps, which allow 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 de-bonding of restorations, marginal gaps, discoloration, recurrent caries and patient discomfort because of post-operative 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 shortfall 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 their leading competitors. Lower shrinkage stress can help to prevent postoperative 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 – outperforming 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 professional’s 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 restorative you can trust.

- BEAUTIFIL Bulk Flowable is available in 2.4 g syringe in universal and dentin shades and is valued at a suggested retail price of $37.44.

- BEAUTIFIL Bulk Restorative is available in 4.5 g syringe in shades A and Universal and is valued at a suggested retail price of $35. Stop by Shofu’s booth, No. 2411, for a live demonstration of each product!
3D imaging for lower dose than a 2D panoramic* is not magic...

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300 dental products and counting

Mydent International’s record of reliable service dates back more than 27 years

By Mydent International Staff

- Launched in 1985, the DEFEND brand, by Mydent International, has grown into a global leader, serving more than 50 countries in the manufacturing of high-quality infection control products, disposables, preventatives and impression material systems.

- With more than 27 years of reliable service to the dental industry, Mydent International manufactures more than 40 percent of consumables used in the dental operatory.

- From award-winning sterilization products, impression materials, prophylactic paste, wipes and lab coats to disposables and more, Mydent International manufactures more than 300 items used by dental professionals.

Award-winning impression material

Mydent International’s impression material line is an industry favorite. Recognized by Dental Product Shopper as a “recommended” product, DEFEND impression materials have been described by dentists as “the best material ever used.” Offering exceptional mix and flow characteristics, DEFEND VPS and bite registration impression materials provide outstanding detail and need minimal dispensing effort.

Award-winning disinfectant wipes

DEFEND+PLUS Wipes disinfect, deodorize and clean hard, non-porous surfaces safely and effectively. The wipes, which contain a stable, low-pH formulated disinfectant and deodorant, feature a new, two-minute kill time for various organisms, including methicillin-resistant Staphylococcus aureus; influenza A; Pseudomonas aeruginosa; and hepatitis B and C; and they deliver a one-minute kill time for human immunodeficiency virus-1. These wipes were awarded “Best Product 2011” by Dental Product Shopper.

Ultrasonic cleaning tablets

Mydent International’s Ultrasonic Enzymatic Tablets dissolve in a gallon of water in less than a minute to create a powerful and effective ultrasonic cleaning solution. In 2012, The Dental Advisor conducted a clinical evaluation of Mydent International’s DEFEND Ultrasonic Enzymatic Tablets. Evaluated by 34 dental consultants in 821 uses, the tablets received a high 90 percent positive clinical rating.

Jackets and lab coats

Awarded a 4.5+ rating out of 5 from The Dental Advisor, DEFEND+PLUS jackets and lab coats provide the latest technology in protection, with 28 percent better bacterial filtration (Nelson Laboratories, January 2011). These jackets and lab coats are made of a soft, three-layer, SMS fabric and provide higher quality stitching, cuffs and collar compared to most competition.

New spore testing service

Mydent’s new DEFEND spore testing service was issued the prestigious “Best Product 2013” award from a recent clinical evaluation through Dental Product Shopper. Eleven clinical evaluators participated, resulting in a final score average of 4.6 out of 5.0.

According to the evaluation, “easiness of use” received the highest rating (4.9 out of 5.0). The other criteria evaluated included response time, effectiveness, instructions, ease of doing tests, documentation and overall satisfaction. This spore testing service provides dental professionals with a quick turnaround time and access to test results via a secure website.

Dual fit masks feature latest technology

Mydent’s newly designed line of DEFEND Dual Fit Face Masks create a tight custom fit for enhanced facial protection.

With the latest in contour technology, these face masks feature a form-fitting pliable nose and adjustable chin band to ensure ultimate comfort.

New prophy angles

DEFEND Prophy Angles have been added to Mydent’s expanded line of dental supplies.

These disposable prophy angles are constructed with contra design to reduce hand fatigue and microtraumas while allowing greater access. DEFEND Prophy Angles are also latex-free, smooth running and vibration-free.

New DEFEND ordering website

Mydent International has developed an ordering website for dental professionals to conveniently place DEFEND orders through their dealer.

For a limited time, Mydent International is giving away $50 retail) of DEFEND products through their selected dealer from the website. Learn more at www.defend.com/order.

Charitable initiatives

Mydent International is dedicated to fully maintaining the DEFEND brand promise: “To provide the health-care professional with the highest quality infection control products, disposables, preventatives and impression materials at affordable prices, supported by superior service and 100 percent customer satisfaction.”
New products from DEXIS® are creating quite a buzz, according to the company. The new offerings include the CariVu™ caries detection system that works with DEXIS software, DEXShield™, a device to help reduce radiation dose to patients, and DEXIS Mac®, a native Mac-based imaging software program.

**DEXIS CariVu**
DEXIS CariVu is a compact, portable caries detection device that uses unique, patented transillumination technology. This new product provides the ability to easily detect a range of carious lesions (occlusal, interproximal, secondary/recur- rent,) and cracks, and it yields an easy-to-interpret image that is stored with the patient’s other images in the DEXIS software.

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

**DEXIS DEXshield**
DEXShield is a unique dental X-ray position-indicating device and a patented patient protective shield. When used in conjunction with the DEXIS Platinum Sensor, this new device not only reduces radiation to the patient, it also aids in proper positioning for image capture. DEXIS says it’s the only company to provide both an intra-oral sensor, DEXIS Platinum, and a shielded ring, DEXShield, with the added benefit of dose reduction.

In a laboratory setting, DEXShield plus the DEXIS Platinum sensor was determined to reduce absorbed dose by at least 30 percent as compared to the Universal Ring plus the DEXIS Platinum sensor, the company said.

**DEXIS Mac**
DEXIS Mac is an innovative dental imaging solution that offers dentists a unified experience across Mac and iOS products. Once released, the native OS X software will provide clinicians with a highly efficient digital imaging workflow and seamless integration with leading Mac-based practice-management programs Viive™ and MacPractice®. DEXIS Mac is scheduled to be formally introduced in the second quarter of this year.

The DEXIS software will provide an intuitive user interface and advanced functionality that Mac users expect — combined with tried-and-true DEXIS image management and enhancement tools, the company said. Plus, this solution brings the award-winning DEXIS Platinum sensor to Mac platform.

A tight integration between DEXIS Mac, the award-winning DEXIS go® app for patient communication and the DEXIS photo® app for extra-oral image acquisition will allow dentist to collectively operate on Mac, iPad®, iPhone® and iPod touch®.
A no-cost solution to operatory clutter

By Zirc Staff

For many offices, staff members are stocking their operatory drawers with everything and anything needed for all procedures. This makes re-ordering impossible, not to mention the time wasted trying to prep a procedure setup by searching through the endless drawers that are scattered throughout the practice.

What you can do right now
Would you believe there is an effective solution for this procedural problem that seems to haunt many dental offices around the world? And it’s free.

Create a bulk storage area in one location for all of your commonly used items, such as the cotton products, masks, gloves and bibs. The success to this technique is to create only one location. Multiple locations for the storage of these products is not effective and will hurt you financially by bogging down your productivity.

How to downsize your Inventory
Start by slimming down your operatory drawers to streamline only the commonly used items like saliva ejectors, gloves, bibs and so on.

Take out all of the procedural-specific items, such as bonding agents and composites out of the ops, and move them into storage in the back. By completing this step, you now need a place for re-stocking these items once they are depleted from use. That is where the bulk storage area comes into play and how you can start saving money immediately.

What you can expect
Yes, it will take a little time to combat your operatories and sift through your procedural items.

Yes, it will take some effort to figure out where and how this bulk storage area concept is going to work and how much room you will need. And yes, it will be a time-consuming process that initially seems to have not much value to its purpose.

What you can also expect
While you are swearing under your breath, thinking, “Why am I putting this much effort into this part of my practice when I could be sterilizing and prepping procedures that need to be done before tomorrow?”, you will stumble upon your first expired bonding agent.

I am sure you will find another one while you drop half of your composites on the floor, and those other expired items will keep showing their ugly little faces, laughing as they hit the bottom of the trash can while you continue your journey through the endless items that are hiding throughout your operatory drawers.

Next month, however, you will notice something compared to the month prior. Your inventory re-order amount will be less than before. Your fellow co-workers will know the locations of the procedural items for prep and where to find the bulk for re-stocking.

You may even notice that you are getting procedures prepped faster and gaining extra time in between them, allowing you to concentrate on other tasks, schedule more appointments or take that time to do an awesome slow motion fist pump followed by a subtle yet passionate, “Oh yeah!” spoken softly under your breath because you are now becoming an efficient and more profitable practice...with no financial investment.

Here in Chicago
Want to learn more? Stop by the Zirc booth, No. 2908, here during the Chicago Midwinter Meeting and learn other ways we can save you money.

Learn tips and tricks for getting organized and saving money at the Zirc booth, No. 2908. (Photo/Provided by Zirc)
Family-owned Flow Dental adds to its digital imaging product line

By Flow Dental Staff

Conversion from film to digital takes many forms. It’s not just the dental office that is moving from film to digital imaging. Flow Dental, long a leading manufacturer of dental film and film accessories, has also transformed its product portfolio to include unique products essential to every dental practice that has gone digital.

“We determined that our relevancy in a digital world would hinge on our ability to provide dentists with accessories that improve sensor or PSP [phosphor storage plate] usage and augment procedure workflow. . . . no pun intended,” said Bill Winters, president of Flow Dental. “Dentists have really responded to our digital products. They recognize the added value we put into each product. They don’t buy our products based on price; they buy based on the benefits to their practice and their patients.”

Take the PSP market. Today, one out of every eight phosphor plate users relies on Flow’s Safe’n’Sure line of PSP envelopes. Safe’n’Sure’s three product styles each offer elegant time-saving solutions to enhance throughput and productivity, while helping to extend the life and usage of the phosphor plates.

A great example of this is Flow’s Safe’n’Sure OPT style (Fig. 1). These PSP covers are designed for plates that include magnets, which account for about 25 percent of the market. Unlike any other product, Flow preloads the cardboard insert halfway into the PSP envelope.

Not only does this remove a time-consuming step, but it also assures the plate can never be loaded incorrectly (because the magnet on the plate must line up with the cut-out on the cardboard insert).

To enhance removal of the plate, the OPT has a unique butterfly seam. This allows the user to easily remove the plate, with touching it—thus prolonging and preserving the longevity of the plate.

Flow’s Deluxe Safe’n’Sure line was recently featured in a review by Clinical Research Associates. More than 75 percent of dentists who reviewed Flow’s Deluxe Safe’n’Sure would recommend it to their peers.

In the sensor area, Flow distinguishes itself with its new Snuggies, an adjustable sensor sleeve. Snuggies enables the user to cinch-tight the sleeve around the sensor; regardless of sensor size or thickness. This means the operator no longer has to twist the sleeve around the sensor cable to keep it in place. These type of details help office productivity and reduce expensive sensor repairs or replacements.

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Other sensor accessories include the Sensible’s adjustable sensor positioner (Fig. 2), which enables the user to move from an anterior to a posterior— even to a bitewing—position, all with the same bite block. The bite block can be adjusted to the midline of any sensor, whether horizontally or vertically placed. It’s the only sensor positioner that can do all this.

Flow Dental is far from finished re-inventing itself. Its newest product is the Exposure line of articulating strips (Fig. 3).

“As a leader in diagnostic products, we felt extending our line into this area made sense. Plus we built the machinery to make it right here in the United States,” Winters said.

Exposure articulating strips eliminate the need for forceps. They come with their own handles.

“They’re easy to use and long enough to reach the back molars,” Winters said. “Dentists will appreciate the added convenience of not having to search for forceps or get the ink all over their gloves.”

Flow recently celebrated 40 years in business. Its sister company, Wolf X-Ray, is celebrating more than 80 years of service to the medical imaging market.

“As a family-owned business—much like the majority of dental offices we service—we are proud to be a valued provider of unique and elegant products; and the best is yet to come,” Winters said.
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“With ScanX Swift’s thin, flexible phosphor sensors, difficult-to-get images aren’t an issue.”

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• Easy for your assistant; efficient for you.

SMART INVESTMENT
• Less expensive than rigid sensors (and no insurance needed).

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*An independent, non-profit, dental education and product testing foundation: Issue 9, September 2011

To order please contact your local dental dealer.
For more information, go to www.airtechniques.com
For almost a decade, Aribex has been quietly ripping the X-ray system off the wall and putting it into the hands of the dental team. Aribex manufactures a handheld, completely mobile X-ray system called the NOMAD. According to the company, one NOMAD does the work of multiple, wall-mounted X-ray systems, which can save the typical dental practice thousands of dollars in equipment costs. Moreover, because the NOMAD enables dental team members to safely and effectively stay with their patients during X-ray 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, the NOMAD is lightweight, rechargeable (battery-powered) and can go anywhere. There are almost 13,000 NOMADs now in use, the company asserts.

Building upon the successes of previous innovation and design, Aribex recently introduced the NOMAD Pro 2, providing the same mobile convenience and cost savings as previous models while increasing durability and performance.

“The Pro 2 is exactly what our customers want,” said Ken Kaufman, general manager of Aribex. “We asked our customers how we could improve our marquee product. We listened, designed prototypes, asked for feedback and iterated until we met their requests. The end result of all of that hard work is the Pro 2. It’s simply the world’s best handheld X-ray system yet.”

The newly designed battery handset, with infrared connectors, together with a new charging cradle, improves the system’s durability and boosts battery performance. “One consistent comment we heard from our customers focused on the charging station,” Kaufman said. “Our engineers spent hours working with customers, researching new solutions. Our final design is a big improvement, and our customers will agree.”

Durability also is enhanced by a re-engineered user interface that is more scratch- and moisture-resistant. “The operatory environment can be hard on equipment, particularly with our products that are easily carried from operatory to operatory,” Kaufman said. “The NOMAD Pro 2 will stand up to repetitive antiseptic and cross-contamination control.”

Use your old NOMAD to save on (or win) a new NOMAD Pro 2

If you have an old, 8.5-pound, working NOMAD Dental, and the improved, sleeker, 5.5-pound NOMAD Pro 2 sounds appealing, visit www.aribex.com/trade-in to learn how you can get a $1,400 rebate when you trade in for a NOMAD Pro 2. Trade in the oldest working NOMAD out there, and you’ll be in the running to win a free NOMAD Pro 2.

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

“We’re excited to show our customers our new innovations and enhancements,” Kaufman said. “We invite our customers to visit our exhibit at booth No. 1009 at the Chicago Midwinter Dental Meeting for a special demonstration of our new NOMAD Pro 2.”
Planmeca is introducing a full range of open CAD/CAM solutions for dentists and dental labs to complete its offering in industry-leading dental equipment and software. The dentist or lab can choose either the entire workflow solution or only certain parts, according to their needs.

This is made possible with Planmeca’s open interfaces between devices and software. From high-precision desktop milling units to sophisticated CAD software, this unique solution includes all necessary tools for open CAD/CAM dentistry.

**Integrated workflow for dentists**

Planmeca PlanScan™ is a digital impression scanner for ultra-fast, powder-free 3-D scanning. The scanner provides real-time digital impressions from one-tooth to full-arch scans. The open STL data output means the scanned data can be sent to any dental lab for CAD work.

Planmeca PlanScan is the first dental unit-integrated impression scanner. Alternatively, it is available as a standalone version and can be connected, e.g. to a laptop.

Planmeca also offers dentists a new open CAD software suite for 3-D design. Planmeca PlanCAD™ Easy is integrated in the Planmeca Romexis® software and is for designing prosthetic works from individual inlays to bridges.

The ready design can then be sent to Planmeca PlanMill™ 40, a new milling unit targeted for dentists and designed for glass ceramic and other material works. The four-axis milling unit is quick and accurate, according to the company.

**Here in Chicago**

For more information on any of Planmeca’s products, stop by booth No. 3414.

**Integrating workflow for dental labs**

For dental laboratories, Planmeca offers Planmeca PlanScan™ Lab, a fast and maintenance-free desktop lab scanner for scanning plaster casts. The design phase is done in the Planmeca PlanCAD™ Premium lab software, after which the ready design is sent to Planmeca PlanMill™ 50, a five-axis milling machine designed for dental labs.

Alternatively, the laboratory can order milling services from Planmeca’s CAD/CAM milling centre PlanEasyMill™ which offers a wide range of materials and fast deliveries, according to the company.

“Our CAD/CAM solutions are truly unique, as the system is completely open and flexible,” said Jukka Kanerva, director of dental care units and CAD/CAM division at Planmeca Oy.

“Dentists and laboratories can choose either the entire solution and benefit from the integrated workflow or just pick the necessary parts and send the open data to their partners. This is truly digital perfection.”

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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 MC Center 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 MC Center 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 as 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 dihydrate 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 sales force 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. MISS’ 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.

PORTER DIGITAL MDM

The Porter Digital MDM is Porter Instrument’s newest nitrous oxide flowmeter system, featuring a remote control panel that measures less than 8 inches long and just less than 3 inches high, making it the smallest footprint in the industry, according to the company.

Today’s contemporary cabinet designs place a premium on space, and designating nitrous oxide into the dental office has never been more efficient or easier than with the Porter Digital MDM, according to the company.

The small footprint and remote faceplate allow the convenience and flexibility of multiple installation options. The faceplate can easily fit into locations in cabinets, under counters, on counter tops or in walls.

The Porter D-MDM digital control system delivers the precise percentage and volume mix of nitrous oxide and oxygen with the touch of a finger.

Faceplate dimensions

- Length: 7 7/8 inches
- Height: 2 1/8 inches
- Depth: 1 ¼ inches

For more information, contact your authorized Porter dealer and/or Port er sales representative, visit www.porterinstrument.com/dental, contact Porter Customer Service at (215) 723-4000 or stop by the booth, No. 3821.
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SharperPractice specialists 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! chair-side 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 have 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 and, at the Chicago Midwinter Meeting, stop by its booth, No. 4621.
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. BioTemps were made to fit the appropriate margin thickness, and chairside adjustments can benefit your practice and your patients.

1. **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.
2. **Removability:** For implant surgery, the specialist will need the ability to remove and re-cement the provisional with relative ease.
3. **Surgical assistance:** The contours and esthetics of the BioTemps will serve as a “guide” to the surgeon for grafting and placement of the implants.
4. **Efficiency:** It takes less time to take a digital impression than a traditional impression.

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

**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.

**Here in Chicago**

For more information on BioTemps provisional bridges, stop by the Glidewell booth, No. 4420.

**Fig. 1:** Preoperative photograph of the patient’s existing long-span 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:** The BioTemps provisional bridge, seated chairside. Note the bulky and gray margins, unesthetic contours and ‘patch’ composites used to repair areas of chipped porcelain.
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James Rosenwald, DDS, FAGD
“I recently bought two DocPort cameras (to replace my older units) and found them so easy to use and so valuable to my practice that I have purchased three more units. I highly recommend this camera.”

Gerald Ross DDS—Tottenham, ON
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