A digital camera designed just for dentists’ clinical photography, case documentation

By Shofu Dental Staff

A recipient of the Pride Institute’s 2015 “Best of Class” Technology Award, the EyeSpecial C-II is the first digital camera designed exclusively for dentistry.

Intended for predictable and consistent clinical photography, case documentation, lab collaboration and patient education, the EyeSpecial C-II achieves brilliant images with simplicity and convenience, according to Shofu. Equipped with a high-quality sensor and unique FlashMatic module, a proprietary system of flashes and filters, this intelligent camera can demonstrate true-color reproduction and an exceptional depth-of-field range, the company asserts.

Like smart phones and tablets, the EyeSpecial C-II is designed to be highly intuitive and user friendly. It has eight pre-set dental shooting modes for efficient dental photography and features numerous smart functions that can enrich peer-to-peer and lab collaboration and patient education, according to the company.

For instance, the unique isolate shade mode grays out the gingival part of an image to facilitate shade matching for both the lab technician and dentist. The draw/edit function enables making notes on images, which can be an added value when discussing treatment options or progress, or when pointing out problematic areas in treatment modality.

Furthermore, for more efficient visual communication, the LCD screen of the EyeSpecial C-II is larger than displays in typical smart phones and SLR cameras, and it can be operated with a gloved hand.

Thanks to the proliferation of HIPAA-compliant Bluetooth and wireless dental-office technologies, Shofu’s camera can provide the ability to wirelessly interconnect with other systems in the operatory and laboratory. When equipped with a Wi-Fi card, a photograph captured with the EyeSpecial C-II will instantly appear on connected devices, including a desktop computer monitor, laptop or an iPad, turning a dental office or a laboratory into a communication hub.

Designed for comfort and functionality, the EyeSpecial C-II complies with stringent infection control protocols, according to the company. The camera is water-, chemical- and scratch-resistant, and it can be swiftly disinfected with a wipe.

Packed with what Shofu asserts are intuitive, cutting-edge functions, the EyeSpecial C-II will help achieve the varied needs of a busy dental office or lab, whether it is the dentist, assistant or hygienist performing clinical photography, case documentation, lab collaboration or patient communication and education.

Shofu’s EyeSpecial C-II digital dental camera includes the isolate shade mode, which grays out the gingival tissue for optimal shade matching. (Photo/Provided by Shofu Dental)
Whether you prefer the palette, or love the glove, VELLA® has you covered.

One great varnish. Now two great delivery systems!

Now you can apply clear formula VELLA® 5% sodium fluoride varnish with NuFluor® from your favorite delivery system! Stick with the sturdy VELLA® stick, or switch to the popular back-of-the-glove technique with our new VELLaMini. Either way, your patients enjoy improved esthetics, a smooth application and the protection they need. VELLA looks better, feels better in the mouth and tastes great, improving patient compliance. Plus, VELLA has great fluoride release and uptake at two hours.† And VELLA provides relief from sensitivity. To order gluten-free VELLA, call your favorite dental dealer, or test drive both by visiting preventech.com for FREE SAMPLES.

New VELLaMini for Back-of-the-Glove Applications!

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Absolute Satisfaction Guaranteed.

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Visit us at the Chicago Midwinter Meeting Booth No. 2712!
Digital radiography in the dental practice has significantly saved time and provided the dental professional with more accurate diagnoses because of superior image quality over argentic film. One of the digital radiography options, phosphorus plate devices, gives the dental practice the ability to go digital in a way that is similar to film but without the need for harmful chemicals or development time.

To use a phosphor plate scanner, the dental professional shoots an individual or series of X-rays and then leaves the room to run the digital plates through the scanner, placing the images into the electronic patient profile. This does save significant time over film; however, there can still be drawbacks. It can still be time consuming, images are sometimes placed in incorrect patient files and time is spent away from the patient.

What has been missing is a true chairside solution for phosphorus plate systems. For this reason, ACTEON has developed the first personal scanner, the PSPIX. The PSPIX is a phosphor plate system that is three times smaller than any other scanner on the market and is ideal to place in every operatory. The dental practitioner can shoot an X-ray and run the plate through the scanner in front of the patient, generating an image in less than nine seconds. Immediate images lead to a quick diagnosis and the ability to educate the patient with a high-quality image. Workflow is improved, as is patient satisfaction and the practice’s revenue.

The PSPIX’s exclusive features provide each clinician with an efficient, affordable, compact and intuitive imaging solution. The efficiency of the device is evident in the automated process when inserting the film. The PSPIX automatically accesses the plate, detects the size, scans, optimizes the image and ejects the erased plate in a matter of seconds. Also, because of the large touchscreen controls, it takes very little time to teach the office staff how to operate the device.

With phosphor plate systems, it is obvious that a high-quality imaging plate is necessary to provide an excellent image. ACTEON provides imaging plates in a variety of sizes from a 0 for pediatric offices all of the way to a 4 for occlusal X-rays. The imaging plates are very flexible and are positioned like film, making them more comfortable for the patient. They are perfect for those who are unable to tolerate larger and more rigid digital sensors – such as patients with strong gag reflexes or smaller mouths. These plates, regardless of size, provide sharp and accurate images for a reliable diagnosis.

Like all of us in dentistry and medicine, ACTEON is concerned about infection control. For this reason, the PSPIX has removable parts that comply with the latest disinfection standards. The areas of the PSPIX that are most likely to come in contact with contaminated hygiene bags and plates can be removed and placed in a thermal-washer disinfector, which drastically reduces the risk of infection. The office also has the option to purchase autoclavable parts if it feels the disinfector is not enough.

To truly be easy to use, the scanner must easily integrate into an office’s existing imaging software. The PSPIX will work in most imaging software in both Windows and Mac environments. If the office does not have imaging software, ACTEON will provide that free of charge.

The PSPIX has been a welcome addition to my dental practice. It has been an investment that has paid for itself over and over again by increasing workflow and patient education. I would recommend having this device in every office.
Introducing DEXIS Eleven

The next generation of DEXIS™ dental imaging is here.

DEXIS Eleven is the future of DEXIS Imaging Suite and builds on the solid foundation of DEXIS software. This next-generation software enhances your clinical workflow and increases security and flexibility by leveraging cloud computing.

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When a patient presents with an edentulous arch or terminal dentition, implant treatment can be provided that improves not only form and function but also quality of life. For patients desiring better chewing capability, stability, esthetics and comfort than a traditional denture can offer, both removable and fixed implant restorations are superior alternatives.

As evidenced by the case that follows, in which one arch is restored with an implant overdenture and the other with a BruxZir® Full-Arch Implant Prosthesis, practitioners today have a great deal of clinical flexibility.

Case presentation
A 47-year-old male presented with terminal dentition in both arches resulting from periodontal disease and severe caries (Fig. 1). He had saved up enough money for a fixed implant restoration for his upper arch, for which he desired the most stable, functional prosthesis possible.

While he couldn’t afford such a restoration for both arches, he wanted a retentive appliance for his mandible. The patient accepted a treatment plan in which his maxilla would be restored with a BruxZir Full-Arch Implant Prosthesis and his mandible with an Inclusive® Locator Implant Overdenture.

At the surgical appointment, the patient’s remaining teeth were removed. Four Inclusive Tapered Implants (Glidewell Direct; Irvine, Calif.) were placed in each arch. Inclusive Multi-Unit Abutments (Glidewell Direct) were attached to the maxillary implants, correcting for their divergent angulation. Having achieved sufficient primary stability, the implants placed in the patient’s maxilla were loaded with an immediate denture, satisfying the patient’s desire to leave the surgical appointment with a fixed maxillary prosthesis in place.

A lower immediate denture was modified and relined to seat over the mandibular implants during healing. The final radiograph taken after seating the temporary appliances confirmed excellent positioning of the implants (Fig. 2).

Three and a half months later, VPS impressions were taken. The restorative protocol for both prostheses included wax rims and setups. After final approval of the wax setups, a custom-tray final impression was taken of the maxillary arch to ensure the prosthetic design was accurate before milling the final restoration from monolithic zirconia.

The lab fabricated the final lower appliance, including denture caps that provide retention and stabilize the prosthesis. Based on the custom-tray final impression, the maxillary prosthesis was designed using advanced dental CAD software, and a provisional implant prosthesis was milled from PMMA.

At the following appointment, the Inclusive Locator Implant Overdenture was seated and checked for proper fit and function. Then the provisional implant prosthesis was screwed into place, and its teeth positioning, function and esthetics were verified. With both appliances in place, the interocclusal relationship was checked and minor adjustments made. The patient wore the provisional full-arch implant prosthesis for a trial period of two weeks to verify the accuracy of the design before it was returned to the lab.

The final BruxZir Full-Arch Implant Prosthesis was digitally fabricated with precision and, as an exact reproduction of the test-driven provisional, fit perfectly and offered the aesthetics and function the patient had come to expect (Fig. 3).

The final restoration effectively addressed the unique circumstances of the case, providing the most durable, stable prosthesis for his upper and a lower restoration that greatly improves prosthetic retention.
Herman Miller
Solutions for Your Dental Office

AERON

Aeron advances the art and science of seating. As the first office chair in which fabric and foam were replaced with a breathable, woven suspension membrane—its innovative Pellicle seat and back—Aeron distributes your weight evenly, eliminating pressure points and heat buildup.

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Support for seated movement starts with a flexible, yet supportive chair that allows your body to move freely and naturally. Mirra 2’s Loop Spine provides torsional flex, allowing you to stretch and reach laterally, while the Harmonic 2 tilt provides a smooth, balanced feel as you recline.

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*Benco will ship chair to the winning dentist. Limit one entry per dentist.
A new generation of core build-up material

By Kettenbach LP Staff

Visalys® Core, the new product from Kettenbach LP, represents the next generation of core build-up materials. The most recent addition to the Visalys family is a dual-curing core build-up material with unique active-connect-technology (ACT) to ensure a reliable bond with all common adhesives – without an additional activator.

The product was first unveiled at last year’s International Dental Show in Cologne, Germany.

Visalys® Core is the first core build-up material from Kettenbach. The fluoride-containing, dual-curing composite was developed for the fabrication of radiopaque core build-ups and core fillings and for cementing root posts.

The product incorporates ACT, which is unique in the market. This enables the material to bond actively with all common light-curing and dual-curing, single-step and multi-step adhesives, without an additional activator. The advantage for users is that it allows them to use the bonding agent they are used to — no matter whether it is a light-curing or dual-curing, a single- or multi-bottle system.

A firm foundation
According to the company, Visalys Core ensures easy and reliable handling with excellent positional stability. At the same time, it exhibits good flowability and low extrusion force. The compressive strength results in a stable monoblock and a secure bond.

Optional light-curing allows the procedure to be continued immediately, according to the company, and reliable self-curing provides for dependable strength even on the cavity floor and in root canals. Polishing characteristics ensure precise preparation; even without light-curing, the smear layer is minimal. The product is also free of bisphenol A and its derivatives.

Visalys Core is available in dentin and white shades in a 5-ml double syringe and in a 25-ml cartridge. For detailed information about Visalys Core, visit the Kettenbach website at www.kettenbachusa.com.

About Kettenbach LP
Kettenbach LP (Huntington Beach, Calif.) is the exclusive U.S. distributor for Kettenbach GmbH & Co. KG (Eschenburg, Germany). Founded by August Kettenbach in 1944, Kettenbach GmbH was created for the development and marketing of medical and dental products.

Today, the company is an international producer of dental impression materials and is also known in other surgical areas of medicine. Brands include Panasil VPS Impression Material, Identium VSXE Impression Material, Futar Bite Material, Silginat Alternative Alginate, Visalys Temp Material and Visalys Veneers.

For more information or to check out Visalys Core for yourself, visit www.kettenbachusa.com or stop by the booth, No. 4713.
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Dental isolation is one of the most common and ongoing 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 systems deliver 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 allows dentists to work in 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 now available in six sizes and position in seconds to provide complete, comfortable tongue and cheek retraction while also shielding the airway to prevent inadvertent foreign body aspiration.

Here in Chicago
Visit Isolite in booth No. 4631 or online at www.isolitesystem.com.

The Isolvac and the Isodry.

The Isolite mouthpieces are now available in six patient-friendly sizes. (Photos/Provided by Isolite Systems)
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www.paladigitaldentures.com
Preventech has recently introduced a new pouch delivery system for its Vella 5 percent sodium fluoride varnish with NuFluor®. This new squeezable unit dose pouch, called VellaMini®, dispenses easily on the back of your glove, moving your work space closer to the oral cavity and allowing you to free up one hand for cheek retraction.

VellaMini makes applying varnish faster and easier than ever, especially on younger, squirmy patients, according to the company.

And since a fluoride varnish application is likely the last procedure prior to releasing the patient, simply de-glove to eliminate any possibility of a sticky mess.

With VellaMini, the company asserts the entire application and cleanup process will take less than two minutes.

VellaMini contains the same clear, thin-layer formula as Vella 5 percent sodium fluoride varnish. It also features NuFluor, a patented combination chemistry containing fluoride, calcium and phosphate for extra-added protection.

VellaMini provides fast fluoride release and uptake at two hours and immediate relief from sensitivity, according to the company. In addition, it is sweetened with xylitol and gluten-free. VellaMini is also n-Hexane free.

Most important, VellaMini looks better, feels better in the mouth and tastes great, according to the company, which asserts it will improve compliance and assure patients get the extra protection they need.

VellaMini is available in five flavors — strawberry, spearmint, melon, bubblegum and new caramel — so now varnish patients of all ages can enjoy a pleasant taste experience during the treatment period.

Visit booth No. 2712 at the Chicago Midwinter Meeting for more information, a product demonstration and samples to take back to your office and apply on your patients. To order VellaMini, ask your favorite dealer sales representative or call Preventech at (800) 474-8681, and the company will ship your order in your dealer’s name.

If you love the glove, you’ll adore VellaMini fluoride varnish

New squeezable unit dose pouch dispenses easily on the back of your glove

By Preventech Staff

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By Preventech Staff
Perfectly fitting restorations with Planmeca FIT

By Planmeca Staff

The open Planmeca FIT™ system for chairside CAD/CAM provides dental clinics with a completely digital workflow. It integrates intraoral scanning, 3-D designing and chairside milling into one system, allowing clinics to treat patients in a single appointment.

Planmeca FIT offers all the necessary tools for designing perfectly fitting restorations within the first patient visit.

The Planmeca FIT system is comprised of three integrated steps—precise intraoral scanning, sophisticated 3-D designing and efficient chairside milling, according to the company. The system combines all workflow phases under one software platform, enabling access to all imaging and CAD/CAM work through the same interface.

The Planmeca PlanScan® intraoral scanner can be integrated with any digital Planmeca dental unit. It can be used just like any other instrument and easily shared between different users. The scanner can be controlled from the dental unit foot control, leaving the user’s hands free for scanning and patient treatment at all times. Live scanning data can be constantly accessed from a dental unit’s tablet device, while sound guidance further ensures optimal data capture.

The Planmeca PlanCAD® Easy design software is ideal for a wide range of prosthetics planning. It provides the perfect tools for sophisticated 3-D designing at dental clinics, according to the company, ensuring the precise placement of restorations. Completed designs can either be sent to a lab in an open STL file format or manufactured on-site with the Planmeca PlanMill® 40 milling unit. Packed with refined power, the unit produces restorations from a large selection of materials, exactly according to the design.

All steps of the Planmeca FIT workflow are easily controlled and accessed through the Planmeca Romexis® software platform. Planmeca Romexis is the brains behind the Planmeca ecosystem and assures that the Planmeca FIT system always runs seamlessly. In addition, the software provides remote real-time usage information on the Planmeca PlanMill 40 milling unit, allowing clinics to locate resources and monitor ongoing milling processes.

Planmeca FIT is a completely streamlined and integrated approach to high-quality dental care. According to the company, it helps clinics utilize their resources to the fullest and treat more patients in a shorter period of time. Instead of two appointments, patients can be treated in one visit—without requiring temporary crowns or physical dental models.
Product Development, Materials Science & Manufacturing

- Our dedicated in-house R&D team of 57 scientists and engineers creates and tests clinical products and materials.
- Advanced technologies and tools are assembled from around the globe to produce products with clinical advantages at reduced costs, all in a single location.

Clinical Research, Validation & Continuing Education

- Three on-staff clinicians work in cooperation with trusted research centers, including Gordon J. Christensen Clinicians Report® and The Dental Advisor™, to clinically validate our products’ effectiveness.
- Comprehensive, affordable clinical education is offered in-person and online, with quality learning materials delivered to dentists across the U.S. in the form of free quarterly publications.

BruxZir® Solid Zirconia, BruxZir NOW, Obsidian® Ceramic Pressed to Metal, and Camouflage® Nano-Hybrid Composite are produced in our Irvine, California, facility.

The Glidewell International Technology Center in Irvine, California, provides didactic and hands-on clinical programs.

Hahn™ and Inclusive™ Tapered implants, along with 2,692 individual components, are manufactured in our Irvine, California, facility.

Chairside® and Inclusive™ magazines offer relevant articles on today’s clinical procedures.
Expanding your restorative options and reducing costs

Software, Scanners & Milling Machines

- Robot-attended manufacturing systems and computerized workflows promote precision quality
- Our 48-person software development team creates programs for the digital data acquisition and custom fabrication of dental restorations

Restorative & Preventive Dental Laboratory Services

- Using clinically validated materials and digital technologies provides best-in-class restorations and preventive appliances
- Experienced technicians utilize CAD/CAM technologies to deliver consistently high-quality cases at affordable prices

Your prescriptions are filled using best-in-class products such as BruxZir Solid Zirconia, IFS e.max®, Obsidian, Comfort H/S™ Bite Splints and Silent Nite® si.

Our engineering team has developed robotically attended manufacturing systems for custom implant abutments, resulting in maximized consistency and controlled costs.

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Chicago Midwinter — February 25, 2016

**A look at DEFEND products: Burs, mixing tips, toothbrushes and more**

**By Mydent International Staff**

Mydent International has grown into a global leader in the manufacturing of high-quality infection control products, disposables, preventatives, impression material systems, rotary instruments and restoratives.

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

**DEFEND Carbide and Diamond Burs**

Mydent International is pleased to announce the launch of its new Carbide and Diamond Burs product line. Made of Austrian Carbide, DEFEND Carbide Burs feature a fast, smooth, vibration-free performance, reducing patient discomfort and operative time. These Burs exceed international standards and are 100 percent inspected by infrared technology, the company asserts.

DEFEND Diamond Burs are manufactured with German electroplating technology. With minimal pressure required on turbine, these Burs offer maximum precision and minimum vibration. To view DEFEND’s new bur catalog, visit www.defend.com/burs.

**DEFEND Plus Glider Barrier Envelopes**

This is, according to the company, the perfect barrier envelope to protect phosphor plates from cross contamination. It features a unique "GLIDER" loader/sealer, allowing you to quickly and easily "glide" your PSFs into the envelope. Upon peeling off the loader’s tab, the envelope practically seals itself. When the X-rays are completed, the center seam allows you to tear open the envelope and start the developing process without ever touching the plate.

DEFEND Plus Glider Barrier Envelopes can be used with virtually any system on the market.

**DEFEND T-Mix Mixing Tips**

New mixing technology provides less material waste and consistently high mixing quality, the company asserts.

The changeover to the New T-Mix tips is seamless and 100 percent compatible. Compatibility with the existing MIXPAC® systems is guaranteed – as before, all original accessories fit, the company states.

**DEFEND Bendable – Tapered Applicator Brushes**

The company states these brushes make it easier to apply whitening agents, etchants, bonding agents, sealants, desensitizers, adhesives and resins. The brush’s chemical-resistant fibers hold up to the harshest dental materials, according to Mydent, and they allow for greater carrying capacity and better smoothling and spreading.

**DEFEND Curved Utility Syringe (12 cc)**

These syringes are 12 cc, non-sterile, and curve-tipped, disposable and ungraduated, and they are used for impression materials and all irrigation purposes.

**DEFEND 20 percent Benzocaine Anesthetic Gels**

DEFEND’s 20 percent Benzocaine Anesthetic Gels are fast acting with no systemic absorption. The gels provide temporary relief of pain during dental procedures. The company states the gels comfort patients with minor mouth irritations and have no bitter aftertaste. The gels are available in flavors such as strawberry, cherry, pina colada, mint bubblegum, grape, mango, raspberry and banana.

**DEFEND Toothbrushes**

Mydent states that its DEFEND Toothbrushes are the same quality of major brands at a fraction of the cost. DEFEND toothbrushes are individually wrapped and come in assorted colors. The brushes are available as standard adult, premium adult with rubber grip, youth and child.

**DEFEND Multi-Purpose Disposable Dappen Dishes**

The DEFEND Multi-Purpose Disposable Dappen Dishes are designed to prevent cross contamination for a variety of procedures. They offer a quick and convenient vessel for prophylastic paste, composite materials, acrylics, cements and bonding agents, the company asserts. Each dish is made of high-quality plastic that is imperious to most dental materials. Available in assorted colors.

**Two products to make imaging easier**

**By Flow Dental Staff**

Flow Dental, exhibiting at booth No. 1521, is introducing two new products at this year’s Chicago Midwinter Meeting.

The first product is a fully adjustable intraoral camera sleeve. New Perfect Fit sleeves let you create a custom-fit sleeve for virtually any size camera.

Perfect Fit’s unique design allows you to easily adjust the horizontal and vertical tension to achieve a custom-like fit. It’s quick, easy and, best of all, will save you time and money.

With the new Perfect Fit, your sleeve will stay on every time, and the area above your lens will always be wrinkle-free. Nothing fits your camera like new Perfect Fit from Flow Dental, according to the company, which also promises that Perfect Fit sleeves are 30 percent less expensive than other custom-fit camera sleeves.

In addition to the Perfect Fit, Flow Dental is also introducing new Slide’n’Stick universal sensor slippers.

To use the Slide’n’Stick, slide it over the film bite block (left), peel off the cover and stick your sensor (center) and then use the positioning arms and aiming rings to complete setup. (Photo/Provided by Flow Dental)

**Here in Chicago**

To check out both the Perfect Fit and the Slide’n’Stick for yourself, stop by the Flow Dental booth, No. 1521.

As William Winters, president of Flow Dental, said: “We understand imaging from a workflow and case-management perspective. Our goal is to enhance, yet simplify, any aspect of the process that we can, by whatever degree we can. We make products that are easy to use, easy to adapt and are a benefit to both the patients and the practitioners.”

*Rinn and XCP are registered Trademarks of DENTSPLY International
NEW! Visalys® Core – Secure core build-up for high stability.

Visalys® Core is a fluoride-containing, dual-curing composite, developed for the fabrication of radiopaque core build-ups and core fillings and for cementing root posts. The product incorporates Active-Connect-Technology (ACT), which is unique in the market. This enables the material to bond actively with popularly used light-curing and dual-curing, single-step and multi-step adhesives, without an additional activator. The advantage for users is that it allows them to use the bonding agent they are used to – no matter whether it is a light-curing or dual-curing, a single- or multi-bottle system. Call 877-532-2123 direct to place an order.

Visit us at the Chicago Midwinter Dental Meeting ▶ Booth #4713

www.kettenbachusa.com
When it comes to optimizing infection control in dentistry, we as dental professionals must always change with the times. Old ways of thinking must go the way of dinosaurs, and we must ramp up our efforts as infection prevention practitioners.

Back in the day
Many of us, myself included, have experience that dates back to the days before personal protective equipment was used, when gloves were worn only during surgical procedures, and masks, if worn at all, were worn all day and with all patients. Protective gowns were the exception not the rule. We also believed, back in the day, that cold sterilization actually sterilized instruments.

Like Bob Dylan sang, however, “The times they are a-changin’,” and one thing is certain: We do ourselves and our patients a disservice when we remain entrenched in the past.

New safety hazards continue to emerge, but thankfully, new technologies are keeping pace. Stoma Dental, for example, has responded to such infection-control demands by making dental treatments safer for both the team and our patients with the introduction this month of a new disposable backflow prevention valve.

According to the Centers for Disease Control and Prevention, research demonstrates that suction valve backflow is a significant risk factor for microbial cross-contamination between patients.

New single-use backflow prevention valve now available
Stoma’s new disposable saliva ejector, DOVE® Backflow Prevention Valve, is a one-way valve that prevents backflow and eliminates cross-contamination between patients. The DOVE system adapts to a wide range of single-use tips and includes tail-caps to reduce noise and also bacterial aerosols between DOVE valve replacements.

Don’t get stuck
Change is inevitable in life and in our professional practice, and it is essential if we are to ensure that no one is harmed by a preventable infection. We must welcome change as an opportunity to reduce harm and improve care.
A successful outcome to any restorative bonding procedure is not only dependent on immediate results, but long term performance as well. New Brush&Bond® Universal Adhesive System provides the immediate and long term stability and functionality needed for any restoration.

A Universal Adhesive System that may be used on dentin, enamel, ceramics (including porcelain, zirconia and lithium disilicate) and dental alloys, Brush&Bond Universal boasts impressive bond strength by forming a complex Hybrid Network into the dentin tubules.

The adhesive’s low viscosity and almost undetectable film thickness of 3 microns provides excellent coverage and desensitization without interfering with the fit of restorations.

It is compatible with self-cure, light-cure and dual-cure resin composites such as Absolute Dentin, HyperFIL and more!

We’re certain that you’ll find NEW Brush&Bond Universal an integral part of your restorative procedures.

See How Brush&Bond Universal Stacks up to the competition!

Learn more at Booth #2311
Keystone Industries, a U.S.-based company that manufacturers some of the world’s top mouthguard products, has officially launched the latest item in its Pro-Form Mouthguard line—the PF2 mouthguard.

Unlike laminated mouthguard products that require a dentist to custom fit it to the patient, the PF2 mouthguard is a do-it-yourself guard that gives the best custom fit possible without taking impressions of the teeth.

With the elimination of dentist appointments and impressions, the price of this guard is significantly lower than custom-fit mouthguards while still providing high-impact protection, according to Keystone. The PF2’s unique design allows it to be re-fit by the user multiple times.

“Being a leader in this field means we need to set the bar high for new products and innovation,” said Michael Prozzillo, Keystone Industries vice president of sales. “The PF2 will change the way athletes buy mouthguards and also how the dentist sells them.”

The suggested retail of the PF2 mouthguard is $38, and it is available in either black or white. Keystone has stated there will be bulk purchasing available in the near future. Multiple color options will also be available, similar to the Pro-Form line of colors.

“You just won’t be able to get ahold of another mouthguard that can be custom fit in under a minute and provide the same beneficial features,” said Derek Keene, vice president of marketing and product development for Keystone Industries. “We’re excited to watch PF2 take off and provide significant value to our customers and athletes across the country.”

To keep up to date on PF2 and Keystone announcements, please visit www.keystoneindustries.com and follow the company on all social media platforms.

About Keystone Industries
Keystone Industries, a privately held company founded in 1908, has maintained a reputation for producing high-tech dental products in both the operatory and laboratory realms.

The company asserts its dedication is driven by the need to provide customers with the finest quality materials while developing products that meet and surpass customer expectations.

PF2 mouthguard is a do-it-yourself for all athletes

Here in Chicago
Get entered for a chance to win an iPad Air with a purchase of the PF2 during the Chicago Midwinter. Just stop by the Keystone booth, No. 4011, to make your purchase. The company will also be giving away T-shirts.
SOLID/FULL ZIRCONIA
FOR BRUXERS AND MORE
“Virtually Fracture-Free”

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Per Unit

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Revolutionizing local anesthetic delivery: A shot patient and practitioners can love

By Anutra Staff

“[T]he Anutra Local Anesthetic Delivery System, stop by the booth, No. 5018.”

“Let’s not even know you gave me a shot,” Barb said as Dr. Kelly picked up his handpiece and went to work immediately.

For decades, the idea of getting a dental injection has terrified patients. Quite frankly, the uncertainty, unpredictability and long onset time of local anesthetic equally terrifies the practitioner.

The Anutra Local Anesthetic Delivery System redefines local anesthetic delivery, according to the company. It enhances patient experience and comfort while transforming a practitioner’s efficiency and profitability as well as the proficiency and predictability of local anesthetic.

Buffering is an age-old science that has been used in the medical community for decades. Buffering is simply taking something acid and mixing it with something more basic to neutralize the acid. So why does this matter in dentistry?

Lidocaine with epinephrine has a low pH, meaning it is extremely acidic. In fact, its pH is close to that of citric acid, which is found in limes and lemons. Could you imagine injecting lemon juice into someone’s mouth? We simply would not do that.

Quite frankly, the uncertainty, unpredictability and long onset time of local anesthetic equally terrifies the practitioner.

Many practitioners report dropping a small amount on the mucosa prior to injecting for a very powerful topical anesthetic.

Not only is patient comfort increased with buffered anesthetic, patient by twisting the knob on the Anutra Dispenser. It could not be easier.

What adds to the amazing power of buffered anesthetic is a topical effect that is a result of a CO2 microbubble that is formed when local anesthetic is mixed with sodium bicarbonate. Many practitioners report dropping a small amount on the mucosa prior to injecting for a very powerful topical anesthetic.

Additionally, anywhere from 4,000 to 6,000 times the active molecules of anesthetic will cross the nerve membrane, making it more profound than normal lidocaine, as well as increasing the predictability that a patient will get numb the first time, even on those hard-to-numb patients.

Not only does the Anutra Local Anesthetic Delivery System provide a simplistic platform for you to buffer in your practice, it also introduces the first-known FDA approved, multi-dose, one-handed aspiration syringe that is fully disposable.

So what does that mean? It means you can hold up to 6 milliliters of anesthetic in one single syringe. No need to reload cartridges—one syringe can hold the equivalent of at least three traditional 1.8 mL dental cartridges.

With a cost point that is affordable, a revolutionary new syringe, a simplistic dosing system and a long shelf life, the Anutra Local Anesthetic is a no-brainer for every dental practice, according to the company.

DEFEND CARBIDE AND DIAMOND BURS

Mydent International is pleased to announce the launch of its new Carbide and Diamond Burs product line.

Made of Austrian Carbide, DEFEND Carbide Burs feature a fast, smooth, vibration-free performance, reducing patient discomfort and operative time.

These burs exceed international standards and are 100 percent inspected by infrared technology. DEFEND Diamond Burs are manufactured with German electroplating technology.

With minimal pressure required on turbine, these burs offer maximum precision and minimum vibration. Both Carbide and Diamond Burs are durable and long lasting.

LITHIUM DISCHARGE BURS

Mydent International is pleased to announce the launch of its new Lithium Discharge Burs.

Made of Lithium Carbide, Lithium Discharge Burs feature a fast, smooth, vibration-free performance, reducing patient discomfort and operative time.

These burs exceed international standards and are 100 percent inspected by infrared technology. Lithium Discharge Burs are manufactured with German electroplating technology.

With minimal pressure required on turbine, these burs offer maximum precision and minimum vibration. Both Lithium Discharge Carbide and Lithium Discharge Diamond Burs are durable and long lasting.

To view DEFEND’s new bur catalog, visit www.defend.com/burs or stop by the booth, No. 845, here at the Chicago Midwinter to see the burs for yourself.

LIQUID MAGIC RESIN BARRIER AND CA-LOK FLOWABLE ADHESIVE CALCIUM BASE/LINER

TAUB Products, a long-time manufacturer of dental consumable products, announced the release of Liquid Magic Resin Barrier for implant and cosmetic dentistry. Liquid Magic is a light-cured resin used to protect threading, screws and internal components of implants and abutments.

Used prior to the placement of a crown, Liquid Magic works in conjunction with ZERO-G Bio-Implant Cement, resulting in better seating of the crown and easier cleanup.

Taub also announced a new breakthrough in base/liner materials with the release of Ca-Lok Flowable Adhesive Calcium Base/Liner. Ca-Lok is a light-cured, calcium-filled resin with adhesive properties to dentin and seamless compatibility to other restorative materials. Ca-Lok is radiopaque and releases fluoride.

Ca-Lok is used as a protective liner and can be placed under restorative materials and cements for all deep cavity preparations.

To check out Liquid Magic and Ca-Lok, stop by the booth, No. 2209, here at the Chicago Midwinter or go to www.taubdental.com.

The Anutra Local Anesthetic Delivery System. (Photo/Provided by Anutra)
“Getting my restoration done in a day? That’s music to my schedule.”

SUPERIOR RESTORATIONS IN A SINGLE VISIT, BECAUSE YOUR PATIENTS WANT IT NOW.

With the Planmeca FIT™ CAD/CAM restorative system, you can now do quality restorations chairside with the speed, accuracy and intuitive design that you will appreciate. Saving time and delivering a better patient experience.

Experience a product demo now. Contact your Henry Schein representative or call 855.801.1121.

Exclusively distributed by Henry Schein Dental

VISIT US AT CHICAGO MIDWINTER - BOOTH #3014
Fotona launches new ST PRO Lightwalker Dental Laser

By Fotona Staff

Fotona, based in the United States and Europe, is launching its new ST PRO Lightwalker dental laser here at the 151st Midwinter Meeting in booth No. 4815.

The ST PRO is a full-featured, hard- and soft-tissue dental laser with many of the features of the award-winning Lightwalker ATS. At an introductory price of $49,900, the company asserts the ST PRO’s competitive price will be very attractive to many dentists hesitating to incorporate lasers into their practices because of the cost of higher priced and less advanced competitive systems.

The ST PRO is an ultra-fast Er:YAG dental laser capable of removing cavities without the need for shots and local anesthetic, especially for children, in most cases. The ST PRO also performs the patented and widely researched and acclaimed PIPS laser root canals, a wide range of atraumatic bone procedures and non-invasive, blood- and suture-free soft-tissue procedures.

The ST PRO includes features not always available in other systems, such as:

- Powerful 12 watts of Er:YAG energy for ultra-fast cutting
- Large, user-friendly touchscreen with a wide range of easy-to-use presets
- The highly reliable, ergonomic and efficient Optoflex delivery system
- High visibility green aiming beam
- Built-in air supply, eliminating the need for external air connections/supplies
- Optional Quantum Square Pulse (QSP) and SMOOTH mode for advanced clinical procedures such as the non-invasive Nightlase snoring treatment

About Fotona

Fotona (www.fotona.com) has sold more than 25,000 lasers around the world, with direct sales in the United States and distribution in more than 60 countries. Fotona produces award-winning lasers in dentistry, esthetics, dermatology, gynecology and other medical fields.

Here in Chicago

To see the new ST PRO Lightwalker Dental Laser, making its debut here at the Midwinter Meeting, stop by the Fotona booth, No. 4815.
DIVERSIFY YOUR OPTIONS.

4% Citanest® Plain DENTAL (lignocaine HCl injection, USP)
4% Citanest® Forte DENTAL with epinephrine 1:200,000 (lignocaine HCl and epinephrine injection, USP)
By Heraeus Kulzer Staff

Heraeus Kulzer, a leader in dental esthetics, last year launched the Pala Digital Denture System, and you can see live patient demonstrations at the booth, No. 2000, today and Friday.

The system’s advanced technology delivers time savings and digital precision to benefit dental practices, their dental laboratories and their patients, according to the company.

The Pala Digital Denture system technology uses computer-aided design and 3-D software to model dentures for an excellent fit with great esthetics that practices can deliver to their patients two times faster than conventional systems, the company asserts.

More importantly, according to the company, despite the significant time savings, there is no compromise in either comfort or esthetics; the end-result is a high-quality, well-polished appliance that delivers a precise fit.

The Pala Digital Denture system allows the dentist to capture the final impression, bite, vertical dimension and centric relation in a single-patient visit, compared to three visits with conventional systems.

Once the lab receives the impression, it is scanned and forwarded to Heraeus Kulzer, which creates 3-D renderings and crafts the final denture. The lab examines the denture and sends it to the dentist, who places it with the patient.

“Reducing chair time is what it’s all about — for both my practice and my patients — and the Pala Digital Denture System certainly delivers on that count,” said David Little, DDS, of San Antonio, Texas. “It also delivers the accuracy and predictability that only CAD/CAM technology can provide, plus I love having the ability to make a replica of the denture using the digital record. On top of all that, you can take advantage of this impressive technology without having to invest in a new piece of equipment.”

“The entire process from start to finish takes about 10 days and can involve as few as two patient visits, which is something that both patients and their practices greatly appreciate,” said Lesley Melvin of Heraeus Kulzer. “Importantly, dentists tell us that their patients are extremely pleased with both the look and fit of their Pala Digital Dentures.”

Another advantage of the Pala Digital Denture process is that its 3-D renderings serve as a permanent digital record, which makes it quick and easy to create duplicate dentures and with no chair time involved.

The combination of dramatic time savings, digital precision and the life-like esthetics of Pala denture teeth makes the Pala Digital Denture System an exciting upgrade for dental practices, laboratories and patients alike, according to the company.

About Heraeus Kulzer

Heraeus Kulzer GmbH is one of the world’s leading dental companies with its headquarters in Hanau, Germany. The company supplies dentists and dental technicians with an extensive product range, covering cosmetic dentistry, tooth preservation, prosthetics, periodontology and digital dentistry.

More than 1,400 employees at 25 locations worldwide are driven by their expertise and passion for the dental market and embody what the name Heraeus Kulzer stands for: service, quality and innovation. In 2013, Heraeus Kulzer’s product turnover exceeded $400 million.

Heraeus Kulzer has been part of the Japanese Mitsui Chemicals Group since July 2013. Mitsui Chemicals Inc. (MCI) is based in Tokyo and has 135 affiliates with more than 14,200 employees in 27 countries worldwide.
NOVAPro™
The First Nanofiber Reinforced Nano-Hybrid Restorative Composites

Booth #2449

www.nanovabio.com
573.875.6682
The newly released NovaPro™ flow has superior performance because of the incorporation of calcium phosphate nanofibers in conjunction with nanoparticle technology, according to the company behind it, Nanova Biomaterials.

Most flowable composites on the market only utilize nanoparticles to improve polishability while maintaining strength. Nano-hybrid technology is best described as having a box of basketballs, tennis balls and golf balls to achieve a higher fill percentage. According to the company, NovaPro flow is the first and only composite to add the patented nanofiber technology to the current nano-hybrid composite, significantly improving the mechanical performance.

Nanova Biomaterials developed and manufactures this nanofiber technology used in the flowable composite at their Columbia, Mo., headquarters. Created in 2007, these innovative fibers significantly improved the currently available composite. These nanofibers are simply fibers that are less than 100 nanometers in diameter, which is approximately 1,000 times smaller than a piece of hair. This small size gives the fibers their strength by reducing the possibility of defects in a cross-section.

In addition, fibers reinforce composites by adding to the tensile, bending and shear strength of the composite. By utilizing nanofibers with nanoparticles, the material is reinforced, similar to rebar in concrete, providing a stronger, longer-lasting composite with very low shrinkage stress.

NovaPro flow was designed to have optimal handling and finishing properties, according to the company, and it doesn’t require any special polishing tools to perfect the desired finish and look expected from a flowable.

NovaPro flow is FDA cleared for all classes (I, II, III, IV and V) of restoration. Other cleared uses include:
- Base/liner for Class I or II
- Minimally invasive procedures
- Pit and fissure sealants
- Direct or indirect restorations

Do you trust your current composite to accurately reflect the quality of your patient care? Come check out NovaPro flow here in Chicago.

Strength through nanofiber innovation

By Nanova Biomaterials Staff

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- Pit and fissure sealants
- Direct or indirect restorations

Do you trust your current composite to accurately reflect the quality of your patient care? Come check out NovaPro flow here in Chicago.
Another first in dental isolation.

Expanded use with:
- Implants
- Oral-Maxillofacial Surgery
- Emergency Care
- Extractions
- Bone Grafting
- Periodontics

Surgical dental procedures are now safer than ever. Using Isolite’s Sterile Mouthpiece you have control over blood and debris like never before allowing you to focus on dentistry and worry less about everything else.

Available in a full range of sizes to best fit every patient.

BRING THIS AD TO BOOTH #4631 AT CDS MIDWINTER MEETING FOR A SPECIAL OFFER
Sirona Dental, a company that helped pioneer digital dentistry, will distribute complimentary tickets to the Superheroes of Dentistry party, to be held on Friday night, to those who register and participate in a brief Sirona booth tour here at the Chicago Dental Society Midwinter Meeting. All superheroes are invited to come donning their capes and masks to celebrate into the night with fellow superheroes and sidekicks. Taking over the House of Blues on Dearborn Street in downtown Chicago, this superhero-themed party will thrust into action at 7 p.m.

To obtain complimentary tickets, you can register online to partake in a tour of the Sirona booth. Tours are available today and Friday during regular exhibit hours (9 a.m. to 5:30 p.m.), and tickets will be distributed after the completion of the booth tour. Up to two tickets are available per person.

Maggie Speaks
Maggie Speaks, one of the most popular live bands in Chicago, will perform live at the Superheroes of Dentistry party. For more than 13 years, the band has traveled both nationally and internationally to perform at a cornucopia of corporate events and weddings and has shared the stage with powerhouse names such as Earth Wind and Fire, The Doobie Brothers and Jay Leno. Singing different genres of music from ‘80s rock songs to ‘90s pop singles to today’s Top 40 hits and more, Maggie Speaks has been recognized by Event Solutions Magazine as 2010’s Best Entertainment Ensemble and by American Entertainment Magazine as the Best Duo or Group in 2009.

The Superheroes of Dentistry party begins at 7 p.m. on Friday, and Maggie Speaks will take the stage shortly thereafter. Attendees are encouraged to arrive dressed as their favorite superhero, or create their own superhero identity, and enjoy a night of camaraderie, entertainment and superhero action. Cocktails and heavy hors d’oeuvres will be served.

“We continue to exceed our own expectations as well as those of our event attendees,” Sirona Dental President Michael Augins said. “And we intend to uphold our reputation for hosting legendary parties by throwing a bash inspired by our dental superheroes.”

Here in Chicago
Attend a brief tour of Sirona’s booth, No. 2025, and receive a chance to mingle with superheroes. Booth tours are available on a limited basis and are first-come, first-served. The party tickets will be available only after the completion of the Sirona booth tour. The Superheroes of Dentistry party will be held at 7 p.m. Friday at the House of Blues on Dearborn Street in downtown Chicago.

During the tour, participants will have the opportunity to experience the Ultimate Sirona Office and all that it entails, hear from some of Sirona’s leading clinicians, witness product demonstrations and learn more about Sirona product innovations.

The Superheroes of Dentistry party is the second event leading up to the inaugural SIROWORLD celebration taking place in Orlando, Fla., in August.

To learn more about SIROWORLD and to register for the tour, visit www.siroworld.com.
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Why Air Free?

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Eliminate air sensitivity and patient discomfort during removal of bonding adhesive (i.e. Invisalign attachments).

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Reduced child patient sensitivity for a faster and more comfortable procedure.

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No air in the oral cavity for surgical extractions and vertical impactions.

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Reduced sensitivity and discomfort for patients. Ideal for patients with gingivitis or hypersensitivity.

The Air Free is also available in 45° for horizontal impactions and mesioangular procedures.

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**Meditorque Elite Straight - 25K**

Straight Lowspeed Handpiece

- 25% More Power - 25,000 Rpm
- Titanium Finished Stainless Steel
- Accepts doriot contra angle
- 360° Swivel • Made in Japan

Buy One: $499.99
Get One 60% Off: $199.99

**Meditorque Elite Kit - 25K**

3 Piece Lowspeed Kit

This 3 piece kit is sure to exceed your expectations thanks to its superior build and performance.

- 25% More Power
- Titanium Finished Stainless Steel
- Made in Japan

Buy One: $699.99
Get One 60% Off: $279.99

**Prophy Pro**

Lubrication Free Hygiene Handpiece

- No routine lubrication required
- 360 degree swivel • Lightweight
- Quiet to reduce patient anxiety
- Only Accepts disposable prophy angles

Buy One: $449.99
Get One 60% Off: $179.99
Another one of those days. All morning long you were struggling to keep on track with the schedule. Your team is frustrated because they haven’t had their full lunch hour more than one day a week in as long as they can remember.

You walked by the sterilization room 15 minutes ago, and it sure sounded like they were complaining to each other because you said to work in that emergency and they were trying to figure out how to pick up their child at daycare on time. Again. You want them to enjoy working here, but you have to be able to pay the bills. And your best assistant asked you again if she can have that raise you have been promising her. Don’t they understand?!

It feels like half of your patients are crankier than you are, and your team isn’t really talking to you today, and when you get home all you want to do is go to sleep and wake up on Saturday — except it’s still Tuesday! It doesn’t make sense.

You have taken C.E. courses every time they come to town. The new insurance plan was supposed to make things easier. You bought a bunch of new equipment to save money on taxes — of course, now you have to pay for it every month — but why does it seem like the harder you work the further behind you get?! There has to be a simple reason.

Well, it turns out there actually is — and it’s something you learned when you were about 5. Do unto others. More specifically, build systems in your office so that you can treat your patients the way you would want to be treated — comprehensively and with exceptional information to make good decisions — and with a system that produces a consistent experience time after time.

While doing that, add exceptional care — esthetic adhesive excellence like you see in the journals. But how? Well, the answer happens to be the foundation that LVI was built upon: building excellence in a patient-centered practice.

The programs at LVI have been teaching clinical excellence and communication and business systems for years. (Photo/Provided by LVI)