By Dr. Joseph Kim

BISCO’s next generation resin cement combines the benefits of bonding with the simplicity of a traditional cementing protocol. TheraCem is a dual-cured, calcium and fluoride-releasing, self-adhesive resin cement indicated for luting crowns, bridges, inlays, onlays and all types of posts. Delivering a strong bond to zirconia and most substrates, along with easy cleanup and high radiopacity, TheraCem offers clinicians reliable and durable cementation of indirect restorations.

The self-adhesive feature means no etching, and no priming or bonding of prepared dental surfaces. This means greater predictability in preparations with subgingival margins, where etchants or bonding agents may cause bleeding (Fig. 1).

With TheraCem, a clean, prepped dentin or enamel surface is all that is needed to achieve excellent bond strengths, with the added benefit of sustained calcium and fluoride release. TheraCem also forms a strong bond to most substrates, including zirconia restorations, without the need for separate chemical primers (Fig. 2).

**Easy to clean up**

TheraCem is easy to clean up with hand instruments and floss (Fig. 3). For deeper subgingival margins, TheraCem is kind to the gingiva, although the margins should be thoroughly inspected to ensure complete removal of excess cement (Fig. 4).

Due to innovative chemistry, TheraCem achieves a high degree of chemical conversion, which ensures long-term durability, without the need for refrigeration when it is not being used. For clinicians, this means that peace of mind can be nearby and ready to use in every operatory.

All of these time-saving features translate to decreased chair time and reduced frustration for both clinicians and patients. TheraCem is true simplicity and durability through cutting-edge chemistry.
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Handler Manufacturing has recently released the Syncro-Torque IV, which is described by the company as being “the next-generation dental-lab handpiece.” The 500-IV Syncro-Torque IV comes complete with a brushless handpiece, variable speed digital control console, foot pedal, set of two wrenches, power cord, cradle and one-year warranty against manufacturing defects.

The new brushless handpiece eliminates the need to change brushes and requires only minimal maintenance if cared for properly.

50,000 rpm motor
The Syncro-Torque IV has 113.8 g/cm of torque and a powerful 50,000 rpm motor good for all dental lab applications, including cutting, grinding, sanding, trimming, etching, carving, polishing and drilling. The improved digital control console is 4 ¼”W x 4 ¼”H x 7 ½”L and is lightweight, at just eight pounds. Additionally, a handle is included for portability.

The control console has a reverse direction that enables the use of left or right accessories and the auto-cruise function enables the user to maintain any speed consistently, according to the company.

Foot or knee controls
The Syncro-Torque IV allows the user to use the foot pedal on the ground or mount it to use as a knee treadle. The 500-IV Syncro-Torque IV is also available in 230V, model 500-IVE.

For more information, you can contact Handler at rickladuca@handlermfg.com or at (800) 274-2635.
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U.S. Patent No.: 9,326,834

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~ C. Aydin Cabi, DDS
Aurora, Ohio

“The fit was awesome! I love the use of this new technology.”

~ Gregory Nicholson, DDS
Murfreesboro, Tennessee

“I love the awesome fit of the Simply Natural Digital Dentures!”

~ Bruce Wiley, DMD
Greybull, Wyoming

“This technique is great and resulted in the easiest try-in I have ever done.”

~ Michael Brogna, DMD, FAGD
Bensalem, Pennsylvania

“I just received back my first Simply Natural Digital Dentures case. The patient loves the fit especially; it even improved her ability to speak.”

~ Adam Myers, DDS
Morgantown, West Virginia

For more information
888-786-2177
glidewelldental.com
New intraoral camera sleeves offer custom fit at economical price

By Flow Dental Staff

Flow Dental, exhibiting at booth 1110 at the 2016 Greater New York Dental Meeting, is introducing several new imaging products.

First there’s new Perfect Fit, which the company describes as “the one and only fully adjustable intraoral camera sleeve you can buy.”

With a Perfect Fit sleeve you can create a custom-fit sleeve for virtually any size camera. According to the company, the Perfect Fit is fast, easy to use, and economically priced.

With new Perfect Fit your sleeve will stay on every time, and your lens will always be clean and wrinkle free. Nothing fits your camera like new Perfect Fit from Flow Dental, according to the company.

Flow Dental representatives report that the Perfect Fit sleeves are 30 percent less expensive than other custom-fit camera sleeves.

Flow is also introducing new All Bite, a universal bite wing holder for all size sensors.

Not only does All Bite flex to hold all sizes, but its unique snap-on/snap-off bite block enables you to move on the fly from a horizontal to a vertical bitewing, in seconds, at chairside. All Bites are economically priced too, according to the company.

Finally there’s new Deluxe Cushies. Deluxe Cushies adhere to either the long or short side of your sensor, PSP plate or film to create a soft, cushiony surface your patients will appreciate. The unique key-way design makes positioning your Deluxe Cushie quick and easy too.

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 imaging process that we can. Our goal is to make products that are easy to use, easy to adapt, save time, reduce cost, and are a benefit to both the patients and the practitioners.”
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The featured Implant Q&A spotlights Dr. Randolph Resnik, seasoned prosthodontist and oral implantologist whose contributions as a researcher, educator and practitioner have made him a widely recognized leader in implant dentistry. Read the article and watch the video interview in which Resnik discusses his passion for teaching, the guiding principles behind the protocols taught in his courses, the latest developments in implants and prosthetics, and his long history with the Misch International Implant Institute, where he serves as surgical director and chief of staff.

The issue features an article by Editor in Chief and Clinical Editor Dr. Jack Hahn, who reviews a case that shows the evolution of implants over the past three decades — from early blade forms to the Hahn™ tapered implant — all within the mouth of a single patient. In an article by Dr. Neil Park, Hahn joins respected bone grafting experts Drs. Carl Misch and Paresh Patel in sharing their regenerative material preferences and insights for the most common indications encountered in implant dentistry. Dr. Timothy Koasionski’s article describes how to achieve predictable, lifelike results in the aesthetic zone through proper implant selection and positioning, digital impression-taking and CAD/CAM prosthetics.

Practice management consultant Dr. David Schwab is featured in a Q&A that explores how dental practices can effectively present implant treatment to patients, including practical tips for improving referral relationships between GPs and specialists. In addition, a Q&A with Gary Pritchard, in-house legal counsel for Glidewell Laboratories, examines the standard of care concept, its relationship to new technologies and how practitioners can keep pace.

Dr. Siamak Abai’s latest article explains how to optimize the tissue, or intaglio, surface of fixed full-arch implant restorations, including tips for maximizing esthetics, patient comfort, ease of cleaning and support for the facial structures. Dr. Paresh Patel demonstrates how to restore an edentulous arch with the Inclusive® Implant Overdenture, which improves prosthetic stability and function for patients who cannot receive a fixed restoration for reasons financial, anatomical or otherwise.

In the first article of a three-part series, Dr. Perry Jones illustrates how orthodontic treatment can be used prior to surgical intervention to reposition teeth, correct the occlusion and establish the restorative space needed for the eventual implant restoration. Resnik appears again, this time beginning a series of articles on the principles of implant occlusion by examining the differences between teeth and dental implants, the susceptibility of implants to force-related issues, the goal of implant-protected occlusion and other considerations in the development of occlusal schemes for prosthetic rehabilitation.

After reading the articles, viewing the case photos and watching the videos, readers have the opportunity to take free interactive continuing education tests through the Glidewell Education Center. Participants can earn C.E. credits through the Academy of General Dentistry Program Approval for Continuing Education (PACE) program for each test they complete and pass.

Inclusive magazine is published by Glidewell Laboratories and President/CEO Jim Glidewell, CDT. Each issue of Inclusive seeks to highlight the many aspects of dental implants from clinical and laboratory perspectives. Featuring case studies, clinical techniques and practice management tools in both article and video format, Inclusive prompts its readers to implement the latest advancements in implantology in order to achieve predictable, profitable and reproducible results.

For the latest digital edition and to sign up for a free print subscription, visit www.inclusivemagazine.com. To contact, you can call (800) 521-0576 or send an email to inclusivemagazine@glidewelldental.com.

(Source: Glidewell Laboratories)
**INDUSTRY NEWS**

**Six times the choice**

By Kettenbach Staff

The Futar® brand offerings of bite-registration materials are being sold to the U.S. market by Kettenbach LP. The products include Futar, Futar Fast, Futar D, Futar D Fast, Futar D Slow and Futar Scan. Now, with six times the choice, Futar bite-registration materials enable practitioners to choose the appropriate material to fit their particular needs. Whether a practitioner is looking for high final hardness, comfortable working times or a “scannable” material, the Futar line has it all, according to the company.

Futar, the original bite registration from Kettenbach, has been a high-demand product for years. The company describes the materials as being “highly acclaimed” and note that the materials have earned recognition from several third-party evaluators in the U.S. as well as globally. The company asserts that the brand represents the market’s most popularly used bite registration material.

According to the company, Futar can be conveniently milled and easily cut with a scalpel. Excess material can be easily broken off, and the correct occlusal position can be checked in the mouth, the company asserts. The upper and lower jaw models can be precisely assigned. The working time is 15 seconds with an intraoral setting time of 45 seconds. And because it sets firm, vertical dimension accuracy is assured, according to the company.

**About Kettenbach**

Kettenbach, based in 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 one of the leading international producers of dental impression materials and is also known in other surgical areas of medicine. The company’s brands include Panasil VPS Impression Material, Identium VSXE Impression Material, Futar Bite Material, Silginat Alternative Alginate, Visalys Temp Material, Mucopen Resilient Liner and Visalys Veneers.

For more information you can call (877) 532-2123 or visit www.kettenbachusa.com.
INDUSTRY NEWS

Mixing, dosing, dispensing with consistent quality

To simplify the daily work of clinical staff in terms of the mixing, dosing and dispensing of single- and two-component materials, the Swiss company Sulzer Mixpac develops optimally coordinated systems solutions: dispenser, cartridge, mixing cannula and application nozzles, all from one source. Quality and the patient’s safety are prime concerns. Martina Strasser, head of sales/health care at Sulzer Mixpac, summarizes the products as follows: “Our MIXPAC™ products are convincing because of their ergonomic and user-oriented design, their safe application, and precise as well as reproducible results.” As leading manufacturer of primary packaging systems, Sulzer Mixpac manufactures all components under strict clean-room conditions. The company invests in demanding and innovative safety procedures. “Users of our components do not only avoid unnecessary risks, they can also trust the consistent and reliable quality of compatible components and our experience in dental medicine,” Strasser said.

Original MIXPAC products can be identified by their logo, the specific retaining rings of the mixing tip, and the six typical colors. The Clinicians Report Foundation® and the Dental Advisor awarded Sulzer’s MIXPAC T-Mixer in the categories “Best Product” and “Best Value” for the first and third time, respectively. The experts emphasized the significant saving of dental material while ensuring consistent mixing quality and compatibility with the existing MIXPAC products.

(Sources: Sulzer Mixpac)

First all-ceramic-based flowable direct restorative

By VOCO Staff

Admira Fusion Flow is described by VOCO as “the world’s first all ceramic-based flowable direct restorative material.” Based on the same innovative nano-ORMOCER® (Organically MODified CERamic) technology as its packable version, Admira Fusion, Admira Fusion Flow offers many of the same advantages. These include up to 50 percent less shrinkage and shrinkage stress, extreme color stability and a new level of biocompatibility.

The combination of nano-hybrid technology and ORMOCER technology means that silicon oxide forms the chemical basis for both the fillers and the resin matrix of Admira Fusion Flow. This unique “Pure Silicate Technology” is what supports the enhanced physical properties that include its high filler content (54 percent w/w), low polymerization shrinkage (0.75 percent by volume) and low shrinkage stress (7.27 MPa). Additionally, according to the company, the material is characterized by excellent biocompatibility because it contains none of the classic monomers (no BisGMA, TEGDMA, UDMA, etc.), which also means it is 100 percent BPA-free.

Admira Fusion Flow is available in the non-running, non-dripping NDT® syringe patented by VOCO. This guarantees safe and precise application without material loss. The flow properties enable easy wetting of cavity walls. Thanks to its precise thixotropic and flow-on-demand properties, the material flows only under pressure and movement, so it remains stable in the cavity following application and modeling. It can be polished effectively and is compatible with all conventional bonding agents.

Admira Fusion Flow is available in 12 shades matched to fit the shade range of the condensable version of Admira Fusion. There is a Bleach Light (BL) and White Opaque (WO) shade for special cases such as bleached teeth or discolored dentin found in pediatric dentistry.
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Upper, lower dentures on Rhein83 components

By Marco De Angelis, DDS, and Luigi Ciccarelli, dental technician

This clinical case illustrates in a schematic way some of the stages involved in the realization of an upper and lower overdenture on eight implants: four implants on the upper jaw and four on the lower (Fig. 1).

This solution will provide greater stability to the prosthesis during the phonation and chewing functions. This enables the patient to feel safe, comfortable and confident with the prosthesis while in social situations.

This technique uses the spherical attachments that enable the clinician to reduce the final costs when compared with a solution using a bar. The fact that the prosthesis will be retained by implants does not lessen the need that the prosthesis achieve all of the other requirements of a traditional prosthesis: it must have an appropriate extension of the edges, a correct vertical dimension, a repeatable centric relationship and a correct assembly of the teeth.

The prosthesis thus conceived will not have only an implant support but it also will have a mucous support. In the presence of reduced vertical dimensions and a high number of implants, it is preferred to use of a superstructure of cobalt chromium that will prevent any breakage in correspondence of the metal housings containing the retentive caps.

The clinician, before fixing the retentive caps (Fig. 2), will check the insertion paths of the prosthesis to eliminate residual areas of compressions with a special paste and the centric contacts.

The fixing of the retentive caps with liquid resin will be facilitated by the use of protective disks that prevent the resin from invading the undercuts of the attachments, allowing an easy removal of the prosthesis once cured.

After the curing, the excess of resin will be finished with a bur.

Before the final delivery, the patient will be instructed on how to properly store and clean the prosthesis and implants. The prosthesis in situ received clear satisfaction from the patient. Thanks is due to Vincenzo Liberati of Lab DentaLine for the construction of the superstructure (Fig. 3).

For more information, you can visit www.marketing@rhein83.it.
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Clearer choice for partial dentures

By Keystone Industries Staff

Keystone Industries, U.S.-based manufacturer of the Itsoclear Clasp and numerous dental laboratory products, has launched a new clear thermoplastic resin, Clearmet. The company describes it as being “the clear choice for esthetically pleasing and clear partial dentures.” It is available through the majority of the dental industry’s top dealers and distributors.

This new resin is made of monomer-free material that has been tested to show no known allergic reactions.

According to the company, the material sets itself apart by being stain-resistant, odor-free and practically invisible inside the patient’s mouth. And like Clearmet’s popular partner the Itsoclear Clasp, it is easy to be adjusted, relined and repaired.

Dr. Dan Schwartz, who has been using the Clearmet material for a few years while developing the product with Keystone, said, “Clearmet is the next generation to the partial denture. The material is great to work with, and the fit is spot on. When adjustments are necessary, they are simple to do chairside. Patient response has been outstanding.”

Michael Prozzillo, Keystone’s vice president of sales, worked with Schwartz on ensuring wide availability of Clearmet at launch. “It’s truly a product that has been tested through and through that works, works well, and makes a different to end users,” Prozzillo said.

Clearmet is available in two sizes, both considered industry standards: small and medium. Both the small (1.77”, 25.5mm x 45mm) and medium (3.03”, 25.5mm x 77mm) come in packages of five tubes, and suggested retail prices are $55.75 and $68.05, respectively.

One of the main goals of Clearmet has been to improve not only smiles but also lives. According to the company, Clearmet is creating beautiful smiles for patients who were previously too uncomfortable to smile with a metal framework.

“I can tell you without any reservations that this material is by far the best, most comfortable, lightest partial denture material I have ever used,” said Dr. Louis Trovato of Hatboro, Pa. “The patient response has been outstanding, and I’m positive I’ll never go back to any other material.”

Not only are doctors thrilled to use Clearmet, but dental labs are, too, according to the company. “It’s not only the easiest material I have worked with, but superior results make it by far the best,” said Frank Ricciardi, owner of RDL Dental Lab. “You don’t need any special equipment and it’s extremely easy to polish. It’s saved my lab a lot of time and stress.”

Keystone’s Clearmet resin is available now through most dental dealers and distributors in North America, Latin America and Europe. Clearmet can be purchased through a preferred dental dealer on the Keystone Industries website. To learn more, get up-to-the-minute updates and order through a dealer, you can visit www.keystoneind.com.

Ionolux: Immediately packable resin modified glass ionomer restorative with composite-like esthetics

Uniquely serves at-risk patients, including pediatric and geriatric

By VOCO Staff

Voco’s Ionolux is a new light-cured resin modified glass ionomer restorative that offers unique physical attributes that benefit both the practitioner and the patient, according to the company.

These benefits include: composite-like aesthetics, non-stick handling, improved physical properties for better longevity; and an ability to be condensed, shaped and sculpted immediately after application.

Fluoride-releasing restorative without sacrificing the esthetics

According to the company, Ionolux’s enhanced esthetics uniquely enable the practitioner to deliver a fluoride-releasing restorative without sacrificing the esthetics. This enables practitioners to offer a higher quality of care especially for at-risk demographics such as the pediatric and geriatric populations. Ionolux is radiopaque and does not require the use of any adhesive or dentin conditioner.

Five shades in a biocompatible quality solution

With five shades that include A1, A2, A3, A3.5, and B1, Ionolux provides a biocompatible quality solution for practitioners looking for a restorative that offers composite-like esthetics, ease of application and shaping, controlled working times and fluoride release.

To learn more, you can visit VOCO in the exhibit hall at the 2017 Greater New York Dental Meeting in booth No. 3201, or you can visit the company online by going to www.vocoamerica.com.

According to VOCO, Ionolux benefits include non-stick handling, improved longevity, and the ability to be condensed, shaped and sculpted immediately after application. Photo, Provided by VOCO
Barrier protection critical with dental gloves

Gloves with inferior capability could expose patient/user to harmful infections

While caring for their patients, dental and health care professionals are constantly exposed to bodily fluids that may carry viruses and other infectious agents.

It is therefore critical that the gloves these professionals use provide the best possible barrier protection.

Many types of gloves are available today, but it is important to know that not all gloves have the same barrier capability, depending on the type of material used. For example, natural rubber latex gloves have long been acknowledged for their very effective barrier properties, while non-latex gloves, such as vinyl (polyvinyl chloride), have inferior barrier capability as shown by numerous studies.

Other synthetic gloves, such as nitrile and polyisoprene, perform much better than vinyl but are more costly, especially polyisoprene gloves. Using gloves with inferior capability could expose both the patient and user to harmful infections.

Quality, safety top priorities

Malaysia is the world’s largest medical gloves exporter (latex and nitrile). Both quality and users’ safety are of top priority to the nation’s glove industry. To this end, a quality certification program (the Standard Malaysian Glove, or the SMG) has currently been formulated for latex examination gloves.

All SMG-certified gloves must comply with stringent technical specifications to ensure the gloves are high in barrier effectiveness, low in protein and low in allergy risks, in addition to having excellent comfort, fit and durability — qualities that manufacturers of many synthetic gloves are trying to achieve.

Natural, sustainable resource

Latex gloves are green products, derived from a natural and sustainable resource, and are environmentally friendly. (You can learn more online by visiting www.smgonline.biz or www.latexgloves.info).

The use of low-protein, powder-free gloves has been demonstrated by many independent hospital studies to markedly reduce the incidence of latex sensitization and allergic reactions in workplaces.

More important, latex-allergic individuals donning non-latex gloves can now work alongside their coworkers wearing the improved low-protein gloves without any heightened allergy concern.

However, for latex-allergic individuals, it is still important they use appropriate non-latex gloves, such as quality nitrile and polyisoprene gloves, which provide them with effective barrier protection.

Extensive array of brand, prices

Selecting the right gloves should be an educated consideration to enhance safety for both patients and users. For decades, gloves made in Malaysia have been synonymous with quality and excellence, and they are widely available in an extensive array of brands, features and prices.

They can be sourced either factory direct (www.mrepc.com/marketplace) or from established dental products distributors in the United States and Canada.

(Source: Malaysian Rubber Export Promotion Council)