Rhein’83, a global producer of precision attachments on removable prosthesis, describes its OT Equator as the smallest dimensional attachment system on the market. It has a reduced vertical profile of 2.1 mm and diameter of 4.4 mm (metal housing included). It is compatible with any implant brand.

Functionality is guaranteed by coupling of attachment and cap. Caps are available in four colors, based on levels of retention — from a minimum of 0.6 kg to a maximum of 2.7 kg.

Superior stability
Because of its shape, Equator provides superior stability when compared with traditional attachments, according to the company. It corrects divergence of up to 25 degrees, the company reports. Functionality is guaranteed by coupling of attachment and cap. Caps should always be used with metal housing.

Learn more
To learn more about OT Equator, you can contact the company by email at info@rhein83usa.it or by telephone at (877) 778-8383.

You can visit the company online at www.rhein83usa.com to learn more about all of its products and services, including the OT Equator.

(Source: Rhein’83)
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.

www.kettenbachusa.com
86A Avenger splash hood: Safety hazard intervention at low cost

By Handler Manufacturing Co. Staff

The Handler Manufacturing Co. has released the 86A Avenger, an innovation for the dental lab designed to help contain contaminants during various polishing and grinding applications. Both OSHA and OSAP standards require the use of a splash-hood device with protection from splashing to contain contaminants when polishing and grinding in the lab environment. In addition to creating a safety hazard, nonconformance could lead to a fine stemming from an OSHA inspection.

New level of safety and cleanliness

According to the company, Handler revolutionized polishing applications with Red Wing lathes, polishing units and splash hoods. Handler aluminum and resin splash hoods are used in more offices and dental labs than any other containment device when polishing or grinding.

Now, according to the company, the 86A Avenger takes the application to a new level of safety and cleanliness. The 86A Avenger as being a low-cost way to contain hazardous contaminants when polishing or grinding using a Red Wing Lathe or handpiece.

Features and benefits

- OSHA and OSAP compliant
- Resin material with no hardware, fixture or attachments makes it easy and efficient to clean and disinfect after every application
- Spacious cavity is ergonomic for all grinding and polishing applications in the lab
- Clear acrylic shield is coated so it is scratch resistant for longer life
- Ergonomic design for easy viewing of application
- Surround construction maximizes containment of dusts and hazardous contaminants

Solid, sturdy resin material

The 86A Avenger, manufactured of solid, sturdy resin material, has two parts: a bottom and a hood that has no hardware or fixed attachments. According to the company, the innovative design makes it easy and efficient to clean and disinfect after every application, making it compliant with OSHA and OSAP safety standards.

The 86A Avenger has a removable clear acrylic shield specially coated with a material to protect it against scratching. The footprint of the 86A Avenger is larger, and the spacious cavity makes it comfortable and ergonomic for any user. It also has a three-inch dimple in the rear that can be cut off to add suction.

Alternate to, or co-therapy with, appliance or CPAP device

NIGHTLASE is indicated for cases when the patient has been diagnosed with chronic snoring, UARS or mild to moderate sleep apnea and either cannot or chooses not to wear an appliance or CPAP device. It can also be used in co-therapy with those devices and represents a less-invasive alternative to current surgical, chemical or radiosurgical options that may require hospitalization, general anesthesia or soft-tissue mutilation.

NIGHTLASE has an extremely high success rate in producing a positive change in sleep patterns. Research has shown that it can reduce and attenuate snoring and provides an effective non-invasive modality to lessen the effects of obstructive sleep apnea.

Not permanent, but easy touch up

NIGHTLASE therapy is not a permanent solution. It lasts anywhere from six to 12 months, however, according to the company, it can be easily touched up.

Silence snoring with ‘NIGHTLASE’ and cutting-edge laser esthetic applications

By Harvey S. Shiffman, DDS

Fotona Lightwalker dual-wavelength laser offers less-invasive treatment option

Fig 1. The NIGHTLASE snoring reduction therapy protocol, which uses the Fotona Lightwalker dual wavelength laser, results in a visible elevation of the soft palate and uvula and a tightening of the oropharyngeal tissues. That, in turn, results in an improvement in the upper airway volume.

Photo/Provided by Dr. Harvey S. Shiffman
Hyperion X5: aerogonomics
The world’s smallest wall-mounted panoramic imager.

HYPERION X5 has the distinction of being the smallest pan unit ever available in the market. With an ultra-simple user interface, the X5 achieves up to 15 high-definition 2D projections in just a few simple steps. Installation is astonishingly quick, with minimal time and cost.

The X5’s automatic focusing and Morphology Recognition Technology (MRT) eliminates the need to manually set exposure parameters and patient jaw size, achieving precise positioning every time, while guarding against under- or overexposure.

Thanks to the iRYS image management software that’s included with every MyRay device, Hyperion X5 can share its images with all of a practice’s PCs. No other imaging option streamlines workflow more.

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The Anthos R7, a model that is both ambidextrous and modular, offers an integrated treatment centre that adapts to your individual operating style perfectly. From complete integration to simple modularity, this model ensures exactly the right combination you need.

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* Offer valid through 12.31.15
**MyRay: New products coming to U.S.**

**MyRay Hyperion X5 is smallest pan unit ever; C-U2 intraoral camera has innovative HD sensor**

*By Cefla Medical Solutions Staff*

**In addition to making history as the first-ever, wall-mounted panoramic imaging system, the MyRay Hyperion X5 has the distinction of being the smallest pan unit ever available, which enables it to be installed in virtually every practice, according to the company.**

With an ultra-simple user interface, the X5 achieves up to 15 high-definition 2-D projections, including multilayer pancreatic, bitewing and quick-pan modes in just a few simple steps. Installation is quick, with minimal time and cost, according to the company.

The X5’s automatic focusing and Morphology Recognition Technology (MRT) eliminates the need to manually set exposure parameters and patient jaw size. This achieves precise positioning each and every time, while guarding against under- or over-exposure.

The unit’s high signal-to-noise ratio clarifies clinical details, and the broad focal layer ensures quality images in every circumstance. Thanks to the iRYS image management software that’s included with every MyRay device, Hyperion X5 can share its images with all of a practice’s PCs. No other imaging option streamlines workflow more, according to the company.

**C-U2 intraoral high-definition camera**

The C-U2 intraoral high-definition camera has ushered in a new era in patient communication with clear, high-contrast, real-time images, plus footage that showcases the aesthetics of a smile or a single tooth with maximum high resolution, according to the company.

Thanks to the f/8 lens and innovative HD sensor, 16-g aspect ratio and 1280-resolution images are achieved and benefit from homogeneous light and natural colors under all circumstances.

The progressive-scan digital video system is incorporated into a nimble and precise handpiece for complete flexibility and perfect image capture. It connects via USB to both Windows and Mac operating systems to provide automatic on/off, live video and still images. A multifunction button and automatic focus-free adjustments make it easier than ever to view, browse, enlarge and save. Use of MyRay’s iRYS software platform makes it easy to share treatments, including images, with others. With the C-U2 HD, the high definition examination has definitively come of age, the company asserts.

In addition to being behind MyRay, Cefla Medical Solutions is a leading source of many other technologically innovative dental brands, including Anthos, NewIsm and Stern Weber brands now sold in North America. Cefla’s multifaceted organization and experienced engineering staffs are dedicated to driving the evolution of the industry and helping to lead professional changes and requirements throughout the world.

For more information, you can visit Cefla in booth No. 2000 in the exhibit hall at the Greater New York Dental Meeting. You also can visit the company online at www.cefladental.com.

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**Cosmetic procedure: intraoral facial rejuvenation**

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Compared with chemical and surgical alternatives, SMOOTHLASSE is an all-natural therapy, with no requirements for injecting toxins or artificial fillers. Using the Lightwalker laser, practitioners can now offer patients cosmetic and health improvements that reach beyond restorative and rehabilitative dentistry.

Editor’s note: Shiffman will be presenting these and other cutting-edge laser dental procedures at the 2015 Greater New York Dental Meeting (CEREC®), digital intraoral, panoramic and 3-D imaging systems, dental treatment centers and handpieces. Visit www.sironausa.com for more information about Sirona and its products.
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Visalys® Core, the new product from Kettenbach LP (www.kettenbachusa.com), represents the next generation of core buildup materials, according to the company. The most recent addition to the Visaly family is a dual-curing core buildup material with unique Active-Connect Technology (ACT) to ensure a reliable bond with all common adhesives—without an additional activator. The product was unveiled at this year’s International Dental Show (IDS) in Germany.

Visalys Core is the first core buildup material from Kettenbach. The fluoride-containing, dual-curing composite was developed for the fabrication of radiopaque core buildups and core fillings and for cementing root posts. According to the company, the Active-Connect Technology, unique in the market, enables the material to bond actively with all common light-curing and dual-curing, single-step and multistep adhesives, without an additional activator. The advantage for users is that it enables them to use the bonding agent they are used to—whether it is light-curing or dual-curing—or a single- or multi-bottle system.

According to the company, the technology simply provides a firm foundation—stable and precise. The company reports that 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. Reliable self-curing provides for dependable strength even on the cavity floor and in root canals. Excellent 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
Kettenbach (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. Brands include Panasil VPS Impression Material, Identium VSXE Impression Material, Futar Bite Material, Silginat Alternative Alginate, Visalys Temp Material, Mucopren Resilient Liner and Visalys Veneers. For more information about Kettenbach LP products, you can call (877) 532-2123 or visit www.kettenbachusa.com.

(Source: Kettenbach)
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New options for non-vital teeth: Colibri

By Stefan Koubi, DDS, PhD
Founder, l’institut de la façette

Introduction
Cemented corono-radicular restorations (CCRR) using fiber posts are now recognized as an excellent alternative to restorations using cast or prefabricated metal posts. Their success is directly linked to the advantages of what many refer to as “adhesive” dentistry, which is biologically compatible, causes less mutilation and permits rehabilitations of high esthetic quality.

The success of this type of restoration is subject to a specific and stringent methodology and is also linked to understanding a new approach that is very different from the mechanicisms dogsma prevailing in the manufacture of inlay cores. Additionally, use of corono-radicular restorations requires a deep knowledge of pulpless teeth and the advent of partially cemented restorations, which is a new treatment for pulpless teeth. For this first option the key factor will be a proper and accurate injection of core buildup resin in the root anatomy to get perfect homogeneity. Hence other options can be suggested to reconstruct anatomy if rubber Dam or good bonding procedures cannot be used (indirect technique). In these cases, making an accurate impression of the root anatomy and cervical margin for the final crown and then cementing a post can be a challenge.

Indications
At present, there are an array of corono-radicular reconstruction techniques. For many years, the two most commonly used standards were materials wound around a prefabricated post and sealed metal inlay-core (Fig. 1).

Given the advent of “adhesive” dentistry, the practitioner must approach reconstruction choices according to the clinical situation and his/her own expertise. However, whatever the reconstruction technique employed, it must meet three objectives: 1) retention of corono-radicular restoration, 2) reinforcement of corono-radicular cohesion, and 3) assurance of tooth durability on the arch, in biological and structural terms.

Direct technique for core buildup
Principle of core buildup. The first guiding idea behind this method is to substitute corrodible — and above all — excessively rigid posts with epoxy-resin-coated quartz or carbon fiber posts. This stable mechanical material combines remarkable mechanical strength, even greater in certain aspects than alloys, with a lower modulus of elasticity, which reduces stress on the residual structures.

The second idea is to associate specific composite resins with these posts, whose visco-elastic properties provide the indisputable advantages of adhesive techniques, ensuring the sealing of the interfaces and retention.

The ultimate objective of homogenous reconstituted structure with high overall strength can be achieved by using a Colibri (Sulzer Mixpac AG) mixing tip.

However, to get the most out of this sequence, certain major points relating to the final restoration quality should be emphasized:

• Biomechanical considerations (favor the passive post principle over that of the adjusted post)
• Biological considerations (capital impact of cementing and the composite resin in these reconstructions)
• Esthetical considerations (taking into account the light phenomena in terms of materials used).

Clinical procedures
Operating area: A set of suitable clamps and an elastic, thin — and above all — strong dam is an essential prerequisite for any adhesive technique.

Chamber preparation. With altered tissues and filling residue eliminated from the crown portion, using a series of gates-glidden and large drills of increasing diameter eliminates most of the endodontic filling material and roughly prepares the root chamber. The length of the chamber must be adapted to the anatomy of the tooth in question, while taking into account the additional retention provided by the reconstruction cementing, which reduces its depth within limits well below the root two-thirds recommended for metal posts. It must be equal to the height of the future crown stump (8 to 10 mm). The chamber diameter does not exceed that of No. 3 largo drill or very occasionally No. 4. This result in less mutilation and more saved tissue.

To optimize the quality of surfaces before cementing, the root walls are cleaned using a long-necked ball burr with diameters supplemented by ultrasound with suitable inserts. The number of posts used on multirooted teeth is intimately linked with the number of root canals present.

Fig. 3: X-ray view of the accuracy and homogeneity of the injection with Colibri.

Ed Matthews appointed VP of sales at TAUB Products

TAUB Products, a manufacturer of dental consumable products, has named Ed Matthews vice president of sales.

Matthews will assume sales responsibility for all of TAUB’s new and existing dental products. The industry veteran has more than 15 years of dental sales and marketing experience.

“We are very pleased to have Ed as an important part of our executive team,” said Jordan Taub, TAUB’s executive vice president. “His dental industry contacts will pay immediate dividends for us.”

Matthews is also the owner of Sure Business Logic, a creative dental sales services company. “I am pleased to join the TAUB organization in this capacity,” Matthews said. “I am looking to make their sales programs as successful as possible.”

TAUB will be at the Greater New York Dental Meeting in booth No. 2708. Matthews will be there to meet customers and discuss TAUB’s newest product, Zero-G Bio Implant Cement and Liquid Magic. TAUB is known for innovative, high-quality solutions for dental professionals.

Learn more by calling (800) 828-2634 or visiting www.taubdental.com.

(source: TAUB Products)

Single bottle adhesive self-cures with no light activation

VOCO recently introduced Futurabond M+, a universal single-bottle adhesive. Futurabond M+ versatility enables it to be used in self, selective- or total-etch mode without any additional primers on virtually all substrates.

Futurabond M+ achieves total-etch bond strength levels with all light-, self- and dual-cure resin-based composites, cements and core buildup materials. With a dual-cured activator, Futurabond M+ will self-cure without any light activation, which, according to the company, offers a big advantage for endodontic applications such as post cementation where it avoids the pooling effect, a problem with light-cured adhesives. Futurabond M+ also adheres well to metal, zirconia and ceramic, making extra primers unnecessary.

Futurabond M+ needs only one coat and takes 35 seconds from start to finish. Its low film thickness of 9 microns makes bonding margins invisible (no “halo” effect) and prevents pooling problems. It does not need to be refrigerated, and it sets in 1 minute. Its characteristics make it a good choice for amalgam restoration or on hypersensitive tooth necks as a protective varnish for glass ionomers and an intraoral repair of ceramic restorations. Learn more about Futurabond M+ at www.voco.com.

(source: VOCO)
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to the degree of deterioration and size of the residual walls. Hence the number of posts will be increased (up to three) if there are no longer any existing walls, to improve mechanical retention of the reconstruction com-
poste.

Adhesive procedures and post cementing. The adhe-
sive system selected must be dual- or chemical-cure and have a specific micro-applicator to obtain a high-quality hybrid layer. The composite resin, the second compo-
ponent of the system, must fill the spaces and coat the post for the purposes of damping and distributing the forces applied to it, by virtue of a modulus of elasticity similar to that of dentin. Finally, thanks to its capacities to bond with the adhesive, it contributes to the cohesion of the assembly.

The Colibri is placed into the root until gutta-percha contact and composite resin injection starts from the root to the coronal part. The composite resin is injected into the chamber to fill it completely, without a risk of leaving empty spaces (Fig. 2). It is important to note that coronary reconstruction is carried out at the same time with the same material to obtain a homogeneous assem-
bly (Fig. 3) and avoid proliferation of interfaces (between the coronary reconstruction composite and the radicu-
lar composite) causing weakening of the assembly.

If walls are insufficient to box the material, a core for-
erm is used (after adjustment with scissors on the limits) to obtain homogeneity on the material thanks to the pressure exerted when it is placed (absence of air bub-
bles). When the use of a core form is needed, it is more efficient to also perform fiber post reconstruction and preparation for the crown directly after the setting time (Fig. 3). It must inject self-adhesive resin cement in the root.

Impression of the occlusal area is important for accuracy of the cast and for the final crown. The specific micro-instrumentation required to perform these restorations is also a key to success. Colibri mixing tips have the ad-

vantage of being universal for all types of canals and being designed as a single piece to improve the duration and quality of application.

Cemented corono-radicular reconstruc-
tions present numerous advantages:
• Ensure greater compliance with the root dentin through tissue saving and decreased failures due to heterogenous distribution of forces applied.
• Reduce the risks of fractures and the effects of corrosion.
• Recreate the tooth chromatic core, thereby enabling pure ceramic prosthetic devices, allowing circulation of light.

Colibri at a glance
Two important clinical steps can be simplified with Colibri: 1) root anatomy impression, and 2) ce-
mentation of the inlay core.

The new device designed to fulfill all of the above-
mentioned indications (direct core buildup technique, impression of the root anatomy and cementation of the post) is the Colibri.

The Colibri is a combination of the well-known stan-
dard mixing tip with an integrated cylindrical needle, which is bendable and 360-degrees fully rotatable. This versatility enables practitioners to simplify everyday dentistry — whatever the technique.

The Colibri is a gracile tool, able to also reach posterior and constricted working areas. Practitioners save time with the integrated needle because no additional tip as-
semble is necessary.

The Colibri has a medical stainless-steel needle that enables corrective bendings without restricting the inner-diameter. The material flow is stable and comfort-
able. Different diameters, ranging from 0.9 to 1.4 mm, fit various material viscosities. Additionally, the rounded ends of the needle remove risk for injuries to the patient (Figs. 5, 6).

The company that manufactures the Colibri, Sulzer Mixpac, offers a market-leading system for single- and multi-component materials to the dental industry. The products are compatible with the various systems for impression and restorative materials.

The product is manufactured in Switzerland and as-
sembled under ISO 9 cleanroom conditions. The raw ma-
terials are compliant with FDA regulations. As a result, the Colibri fulfills a high standard of cleanliness and hygiene.

Conclusion
The Colibri provides a new option to simplify recon-
struction of non-vital teeth regardless of the selected technique. Direct technique — for core buildup restora-
tion. Indirect technique — for impression of the post core (preparation) and cementation.

Other clinical applications are also indicated, such as cementation of the post with self-adhesive resin cement and traditional impression of cervical margin because of the accuracy of the metal needle on the mixing tip and its ability to bend. Colibri combines outstanding mixing quality with a previous unknown flexibility and can be used everyday in various applications.