**Profin IPR tips overcome obstacles in interproximal reduction techniques**

*Unlike rotary instruments, the safe-sided tips will not affect adjacent surfaces*

The Dentatus Profin Directional System is a safe, reciprocating handpiece essential to any discipline in dentistry, now more than ever in orthodontics.

Profin IPR overcomes obstacles that exist with traditional interproximal reduction techniques, because often there is potential for reduction to be over- or under-performed. Profin IPR diminishes the risk of excessive stripping, ensuring more conservative removal of enamel in prescribed amounts. It also eliminates damage to gingival tissue.

**More durable orthodontic treatment**

With Profin IPR, dentists can correct disproportionate tooth sizes, eliminate crowding, preserve enamel and increase the durability of orthodontic treatment. Unlike rotary instruments that may ditch enamel or damage underlying tissues, Profin tips are safe-sided and will not affect adjacent surfaces. They are gauged to prescribed amounts of reduction in five sizes, from 0.25 to 0.5 mm. According to the company, Profin is an extraordinary system for professionally shaping and finishing embrasures, contacts, overhangs and incisal edges. Companion Lamineer Tips are autoclavable, designed for multiuse and available in 30 shapes, sizes, and grits.

To learn more, you can visit Dentatus in booth No. 714 in the exhibit hall at the Greater New York Dental Meeting. You also can contact Dentatus at (800) 323-3136 or visit the company online at www.dentatusUSA.com.

(Source: Dentatus)

---

**Smallest dimensional attachment also provides high stability**

*Rhein’83 OT Equator has reduced vertical profile of 2.1 mm and diameter of 4.4 mm*

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.

**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 are available in four colors, based on levels of retention — from a minimum of 0.6 kg to a maximum of 2.7 kg.

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

Come see Kettenbach at the
Greater New York Dental Meeting
Booth #3357
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 OSAP and OSHA 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 company describes the 86A Avenger as being a low-cost way to contain hazardous contaminants when polishing or grinding using a Red Wing Lathe or handpiece.

Solid, sturdy resin material

The 86A Avenger, manufactured of solid, sturdy resin material, has two parts: a hood and a nose 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.

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

By Harvey S. Shiffman, DDS

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

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

By Harvey S. Shiffman, DDS

Of the commercially available hard- and soft-tissue lasers, the Fotona Lightwalker dual laser wavelengths of Nd:YAG and Er:YAG have high efficacy and ability for almost unlimited pulse control, and the following procedures have been developed to take advantage of these attributes. Along with this increased level of performance comes significant patient comfort.

Snoring affects millions

Snoring affects millions of Americans, and of those approximately 67 percent may have some type of significant sleep disorder. Dentists are in a great position to help screen and in many cases treat these problems with airway management. Helping patients improve their sleep can profoundly improve their health, their quality of life and the well-being of their loved ones.

The “Gold Standard” for the treatment of sleep-disordered breathing is the CPAP-type device. Following that in 1981 was the introduction of Mandibular Advancement Devices (MAD). Compliance with both of these treatment modalities shows a reduction of time and of significant side effects. However, NIGHTLASE™ snoring reduction therapy protocol is a unique approach to treatment using the Fotona Lightwalker dental laser with a proprietary protocol and handpiece.

NIGHTLASE uses the photothermal capabilities of the Lightwalker laser to convert and initiate the formation of new and more elastic collagen. The target mucosal tissues are the oropharynx, soft palate and uvula. The proprietary pulse characteristics create non-ablative heat generation that initiates the conversion of existing collagen to more elastic and organized forms and also initiates “neocollagenesis,” the creation of new collagen.

This process results in a visible elevation of the soft palate and uvula and tightening of the oropharyngeal tissues, resulting in an improvement in the upper airway volume. The results can be seen in Figure 1.

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

NIGHTLASE therapy 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 mutilations.

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 alteration. It lasts anywhere from six to 12 months, however, according to the company, it can be easily touched up.

• NIGHTLASE, page A10
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.

LIMITLESS SOLUTIONS

The Anthis 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.

LIMITED TIME OFFER*:

Stools are included free of charge with purchase of R7 package.

* Offer valid through 12.31.15

To learn more about any of our products, visit us at www.celfadental.com | 1.800.416.3078
MyRay Hyperion X5 is smallest pan unit ever; C-U2 intraoral camera has innovative HD sensor

**Cosmetic procedure:** Intraoral facial rejuvenation

SMOOTHLASSE uses a high-tech proprietary handpiece that enables virtually painless therapy requiring no injections or anesthetics. The procedure shows immediate results that continue to improve over the course of treatment and beyond. 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 from 2-5 p.m. on Sunday, Nov. 29. Additionally, you can visit Fotona in booth No. 3433 in the exhibitor hall at the Greater New York Dental Meeting.
QUALITY LAB EQUIPMENT & WORK STATIONS AT AFFORDABLE PRICES

NEW!

500-IV SYNCROSTORQUE IV
A next generation dental lab handpiece complete with brushless handpiece, variable speed digital control console, power cord, foot pedal and cradle.

- Brushless handpiece motor never requires brush changes
- 7.0N cm of torque provides ample power at all speeds
- Digital control console up to 50,000 RPM for all dental lab applications including cutting, grinding, sanding, trimming, etching, carving and polishing
- Reverse direction for use with left or right hand comfortably
- Auto cruise lets you set the speed and maintain speed
- Light weight, compact design and portable
- Foot pedal (floor or mounted as a knee tredle)
- Affordable, high quality and performance

Buy the 500-IV at GNYDM Booth #1101 and Get 10% Off MSRP

Red Wing Quality Polishing & Grinding
FREE accessories with purchase of any Red Wing Lathe

26A Red Wing Lathe
1/4 HP, 1725/3450 RPM two-speed lathe.

168 Chuck/Changer with Lathe.

575 Multi-Functional Bench Top Polishing System for light use and comes with a 26A.

Sta-Kleen Splash Hoods

NEW!
86A AVENGER S.H.E.L.D.
(Safety Hazard Intervention Environmental Low Cost Device) Hazardous Containment Device for the Lab. Easy to disinfect after EVERY polishing application.

Only $159 MSRP

Red Wing Model Trimming & Accessories
FREE 32SHLD with purchase of any Red Wing Model Trimmer

31 Model Trimmer

81C Plaster Bin
Holds up to 25 lbs (11.3 kg) per compartment. Available in Stainless Steel = Model 81CSS.

78-RK
Atlas Heavy Duty Tri-Speed Vibrator
- Tri-spectrum
- Variable speed

78-1
Three-speed Junior Vibrator

HEPA-Rated Dust Collectors
FREE replacement filter(s) with purchase of any small dust collectors

550 Porta-Vac
Bench-top Dust Collector

NEW!
62-ICC
CAD/CAM Milling Dust Collector with HEPA filter and foot switch control

NEW!
550A
Under Bench Porta-Vac Dust Collector with HEPA filter and foot switch control

SMALL OFFICE TO COMMERCIAL LABS
VA, Hospitals, Schools, Small-Large Commercial Labs. No lab is too big or too small.
Kettenbach presents Visalys Core, new generation of core build-up material

Visalys® Core, the new product from Kettenbach LP (www.kettenbachusa.com), represents the next generation of core build-up materials, according to the company. The most recent addition to the Visaly 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 unveiled at this year’s International Dental Show (IDS) in 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 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 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)
LIGHTWALKER ATS™
Dual Wavelength Nd:YAG & Erbium Laser: The Endo, Perio, Hard & Soft Tissue Laser

WPT™ Laser Perio
Advanced Dual Wavelength

PHAST PIPS™ Laser Endo
Effective & Exclusive

Nightlase™ Procedure
Laser Snoring Reduction

Ultra Fast, No Shot
Cavity Preps

Precise Fast Osseous Cutting/
Shaping Procedures

Bloodless, Suture Free
Soft Tissue Procedures

New X-RUNNER™ Digital Scanner,
Faster and More Precise

FOTONA LASERS PRESENTS
ROCK YOUR PRACTICE
VISIT US AT GNYDM BOOTH #3433
See what you’ve won, everyone’s a winner!
Electric Guitar Grand Prize Winner Every Day!

(888) 550-4113
www.fotona.com • info@fotona.com
New options for non-vital teeth: Colibri

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

Introduction
Cemented corono-radicular restorations (CCRR) using fi-
er posts are now recognized as an excellent alternative to re-
storations using cast or prefabricated metal-
post alloys. Their success is directly linked to the
advantages of what many refer to as “adhesive” den-
tistry, 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 meth-
ology and is also linked to understand-
ing a new approach that is very different from the mechnanistic dogmas prevailing
in the manufacture of inlay cores.

Additionally, use of corono-radicular restorations requires a thorough knowledge of
pulpless teeth and the ad-
vent 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 tech-
nique). In these cases, making an accurate impression of the root anatomy and cer-
amic margin for the final crown and then
impression of the root anatomy and cer-
amic resin in the root anatomy will be a proper and accurate injection of
the arch, in biological and structural terms.

Direct technique for core build up
Principle of core build up
The first guid-
ing idea behind this method is to substi-
tute corrodable — and above all — exces-
sively rigid posts with epoxy resin-coated
quartz or carbon fiber posts. This stable mechanical material combines remark-
able 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 in-
disputable advantages of adhesive tech-
niques, ensuring the sealing of the inter-
faces and retention.

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

However, to get the most out of this se-
quence, 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 im-
 pact 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 increas-
ing diameter eliminates most of the end-
odontic filling material and roughly pre-
pares 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 be-
low 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 occasion-
ally No. 4. This result in less mutilation and
more saved tissue.

To optimize the quality of surfaces be-
fore cementing, the root walls are cleaned
using a long-necked ball burr with diam-
eter, supplemented by ultrasound with
suitable inserts. The number of posts used
on multitoothed teeth is intimately linked

Figs. 1a, b: Two techniques of reconstruction of
non-vital teeth: indirect technique with inlay core
(a) and direct technique with fiber post recon-
struction (b).

Fig. 2a-d: Preparation of root anatomy with largo
drill (2a); test of Colibri insertion after preparation of
root canal (2b); injection of composite resin into
the root anatomy for cementation of the post (2c),
and placement of the post (2d).

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

Single bottle adhesive self-
cures with no light activation

VOCO recently introduced Futurabond M+,
a universal single-bottle adhesive. Futur-
abond 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 com-
posites, 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 refrig-
ated. Benefits include its indication as a desensitizer for use
under amalgam restorations or on hypersensitive tooth
necks as a protective varnish for glass ionomers and an

intraoral repair of ceramic restorations. Learn more about

(source: VOCO)

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 prod-
ucts. The industry veteran has more
than 15 years of dental sales and marketing experience.

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

Matthews will be at the Greater New York
Dental Meeting in booth No. 2708. Mat-
thews 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) 828-2654 or

(source: TAUB Products)
CALASEPT® Endo-line

CALASEPT®
Irrigation needles
Double side vent

CALASEPT Irrigation Needles
* Double side vented
* With luer lock hub
* Bendable
* High quality stainless steel
* Sterile and disposable
* Easy for cleaning out the canals
* Container packed

CALASEPT® Plus
Calcium Hydroxide

CALASEPT PLUS
* More than 41% calcium hydroxide
* Optimal calcium release
* Strong bactericidal effect pH 12.4
* Flexi-needle for precise and deep application

Call Wykle Research for a Free sample of our Calasept products 800-859-6641

Distributed by:
WYKLE RESEARCH, INC.
2022 College Parkway
Carmen City, NY 87700
Tel: 800-859-6641
Fax: 888-859-6641
www.wykleresearch.com

Made by:
Nordiska Dental
Colibri at a glance

Two important clinical steps can be simplified with Colibri: i) root anatomy, impression, and ii) cementation 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 gracieable tool, able to also reach posterior and constricted working areas. Practitioners save time with the integrated needle because no additional tip assembly 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 comfortable. 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 assembled under ISO-9 cleanroom conditions. The raw materials 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 reconstruction of non-vital teeth regardless of the selected technique. Direct technique – for core buildup restorations. 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.