Innovative nano-technology for high-quality standard treatment

The New Tetric N Family of Products from Ivoclar Vivadent

With the Tetric N family of products, Ivoclar Vivadent is introducing a comprehensive nano-optimized restoration system for high-quality standard restorations. The letter ‘N’ refers to what is new: the nano-optimized technology, on which the Tetric N family of products is based.

Tetric N-Ceram—
the new universal composite

Tetric N-Ceram is a further development of the popular Tetric Cerram. Tetric N-Ceram is a universal composite for high-quality standard restorations in the anterior and posterior region. Important properties have been further improved with the help of nanotechnology. These properties include reduced shrinkage, lower wear and enhanced polishability.

Fig. 1: Nano-optimized technology for the Tetric N family of products.

Internal Implant

The main features of the Interna implant from BTI are its anatomical design, a polished 0.5 mm neck and a self-lapping apical part which gives this implant outstanding penetration properties.

The Interna implant with the Universal Plus Platform exhibits an improved biomechanical behaviour, because its design allows for a more adequate load distribution minimizing the vertical bone loss.

The platform size in the Universal Plus implants is 4.5 mm and it has a four-lobed geometry. In addition, the prosthetic components used are the same ones as on the Universal platform.

Anthos Classe A9

Compact and versatile, the Classe A9 unit from Anthos was developed to grant the most space and absolute freedom of movement, offering ergonomic solutions of particular interest to both dentist and assistant. Classe A9 is to guarantee complete control over all operating situations allowing both dentist and assistant to focus entirely on the patient. Designed to give excellent manoeuvrability, Classe A9 is a also highly compact dental unit. Working space has been optimised through new ergonomic design features. The assistant’s module with double-jointed arms can be adjusted vertically allowing for ideal instrument positioning.

The motor-driven removable cuspidor bowl can be rotated up to 270°. In stand-by position it is stowed in the unit body increasing the amount of space available to the assistant. Meanwhile, the MX induction micromotor developed by the Swiss company Bien-Air is standard equipment on Classe A9 and offers a speed range of 100 rpm–40,000 rpm. Auto-clavable and waterproof, the MX incorporates functions that makes it ideal for use in endodontology and a torque adjustment starting from 0.3 Ncm. Total control of instrument parameters renders the MX safe and precise, especially as regards root canal preparation, the company says.

Anthos offers an over-increasing range of instruments and technology to today’s dentists. All in all, the company said to guarantee reliability, functionality and prime performance of its products.

GumQuick/ GumQuick Implant

GumQuick Plus, the proven material for gingiva masks, has been revised completely due to new requirements in the dental technique. As a result there are now two variations of the addition-vulcanising silicone for functional and aesthetical provision available since IDS.

Under pressure the slightly thixotropic silicone GumQuick flows into the finest details. Despite saw model and loss of substance it is supposed to offer the possibility to pay attention to interdental papilla and possible unphysiological pressure onto the gingiva already in the state of crown and bridge modellation. The final hardness of approx. 72 Shore A and can therefore be easily cut with a scalpel.

In addition, GumQuick implant offers easy and safe production directly in the impression. Thin flowing characteristics is to guarantee the bubble-free reproduction of the gingiva and a safe fixing of the implant pillars. The ready made mask shows very good flexibility with a high final hardness of approx. 72 Shore A and can therefore be easily cut with a scalpel.

The manufacturer said that both materials can be scanned with all current dental CAD/CAM systems and offer an additional precision control to the user also in case of digital modelling. The double cartridge system as well as the small mixing canal are to guarantee an exact and economical processing of GumQuick. The Starter Set comes with the insulation liquid DuoSep to provide compatibility with all impression masses.

D Ente ntami d, Germany
www.dreve.com
The German dental laser manufacturer and developer elexxion introduced its newest diode laser claros at IDS. The highly digital pulsed diode laser claros and the proven delos are reliable and powerful devices that are supposed to ease the work for dentists and patients, the company says. Dentists can even choose the colour. Hand pieces and application tips are autoclavable and every application can be reached by only one touch on a coloured display. The doses' security for each of about 100 fixed indications will be guaranteed. “With an upgrade from claros to delos within the first two year, everyone will have the chance to do his first steps in laser dentistry while become a professional laser dentist with the delos unit for almost every indication,” CEO Martin Klarenaar said.

elexxion AG, Germany
www.elexxion.com

Disposable Products from Switzerland

Visitors of IDS were invited to experience the new generation of disposable products presented by the Swiss Helvemed Team.

The company’s ultra soft wet refreshing wipe is for a quick, non-rinsing mouth and face’s cleansing. It is alcohol free, hypoallergenic and moisturizing. Dermatologically tested, the tissue is said to be extra resistant and to leave no nap while being used. Helvemed’s face mask is “cool” and offers improved breathability without compromising safety. Ultra soft and odourless, it is also hypoallergenic and latex free. To offer a perfect protection against contamination, Helvemed has also developed a “cool”, ultra soft and hypoallergenic face mask with visor. The visor is double-sided fog-free, antistatic, reflection-free, resistant to fluid, flexible and avoids optical distortion. In addition, UltraSense is the next generation of nitrile glove that is supposed to fit, feel, look and perform like a latex glove while providing elasticity, comfort and an outstanding grip.

Helvemed SA, Switzerland
www.helvemed.com

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A Brighter Future for the Dental Practice

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Not only was Philips Oral Healthcare—makers of the pioneering Sonicare toothbrush—demonstrating the latest oral technology at the International Dental Show (IDS) in Cologne, they were also initiating dental professionals into tomorrow’s practice technology. By participating in the pioneering Enhanced Patient Experience Zone, delegates were transported to the ‘Practice of the Future’, which showcased a concept study of Philips Design for Philips Oral Healthcare.

The insight for the Enhanced Patient Experience Zone was driven by practitioners’ needs to allay patient stress and fear, which if eased, leads to greater cooperation with clinical staff. It was driven by design research showing that colour, light and sound influence mood, so by changing a room’s atmosphere, behaviour and moods can be modified. The concepts Philips exhibited were created to inspire and stimulate practitioners by harnessing technology to affect behaviour in the practice of the future. On entering the Enhanced Patient Experience Zone, each delegate was handed a smart token, which fits with a memory capacity allowing them to select and experience their preferred atmosphere; selecting lights, images and colours whilst directing associated sounds with pinpoint accuracy to the individual zones for a highly personal encounter.

Stand visitors were able to experience three diverse natural scenarios; ‘Tropic’ with warming spicy colours, ‘Eden’ with a natural range of lush green hues, and stimulating ‘Glacier’ with refreshing tones of icy blue—each matched with associated audio content. By doing so they were able to appreciate that by wrapping the patient in the surroundings of their choosing, changing the atmosphere from clinical into a relaxing environment, practices could be able to affect the way in which patients behave. During interventional procedures, for example, many patients experience significant stress which can be alleviated by a pleasant environment with personalised dynamic lighting, images and audio content, designed to look and feel more comfortable and relaxing.

Delegates immediately appreciated how children could conjure up imaginative and fun scenarios, whilst nervous adults could imagine themselves in the wide outdoors. By relaxing them they will become more compliant, more relaxed and more positive about participating in their treatment.

“The Enhanced Patient Experience Zone is a great example of the benefits of being part of a leading design and technology group such as Philips, as exciting developments can be adapted and tailored to benefit other parts of the business”—a point emphasised by George Marmaropoulos of Philips Design—“By integrating technology, design and a deep understanding of people’s needs and values we aim to enhance the physical and emotional comfort of all the key stakeholders involved including patients, dentists and their staff.”

In this way, the makers of the revolutionary Sonicare—the first and most recommended sonic toothbrush—will not only be able to change the way patients feel about their oral health but in the future their dental practice too.

If you were unable to visit the IDS, you can visit Philips online at www.sonicare.com, where you will be able to gain an impression of The Enhanced Patient Experience Zone.

New Orthopantomograph Units

Revois

The Finnish company Instrumentarium Dental has launched new models of their Orthopantomograph x-ray unit which has established a worldwide reputation for image quality and reliability. The Orthopantomograph OP200 and Orthoceph OC200 is supposed to take imaging to a new level. According to the company, the unit will incorporate several new features to establish improved usability and diagnostic value.

User friendly operation with the SmartPad will make operating the highly versatile machine easy for any user. Imaging programs are selected through an intelligent interactive navigator, the SmartNav, providing instant dynamic help and patient positioning animations to prevent inaccurate images. Furthermore, it is to ensure that the x-ray is right straightaway, saving time and money, and to enable better diagnostics. The sleek modern design of the Orthopantomograph OP200, winner in the Fenia Prize 2007 design competition, makes it both user-friendly and non-intimidating to the patient.

The Orthopantomograph can be equipped with Narrow Beam Volumetric Tomography (NBVT). NBVT is an advanced, yet cost effective, imaging system to obtain 3-D information for implantology.

Instrumentarium, Finland
www.instrumentariumdental.com

curasan AG, Germany
www.curasan.de

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The Revois “RÉVOLUTIONary Implant System” supplied by the German curasan AG is to provide optimum time and cost management thanks to easy handling, high initial stability and top aesthetics for the patient. According to the company, a high degree of precision can be achieved with a minimum number of parts while all components are perfectly matching. The core of this system is formed by the ready-fitted multifunctional precision abutment which fits all implant diameters. In addition, the company offered Cerasorb at IDS 2007, a synthetic bone regeneration material and the company has also announced to considerably expand the existing portfolio within the next two to four years.

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