Nobel Biocare expands access to prosthetic range with new scanner, partnership

With NobelProcera, Dr Mats Andersson first presented fully-automated industrial CAD/CAM prosthetic production to dentistry thirty years ago. Nowadays, the system continues to lead the field as it delivers outstanding quality, ready-to-use restorations, according to the manufacturer Nobel Biocare. Since the fabrication of the first coping in 1983, patients all over the world have benefitted from the more than eleven million delivered high-quality units. Every NobelProcera product and solution since then has been designed to give patients both functional and natural-looking tooth restorations, individually designed to last, the company said.

With the new NobelProcera 2G scanner, Nobel Biocare has recently taken yet another significant step forward to provide more dental laboratories and dentists with greater access to its prosthetic products and solutions than ever before. The more efficient second-generation device is supposed to deliver direct access to the comprehensive assortment of NobelProcera restorations. In addition, users of the iShape Dental System are now able to gain open access to NobelProcera's high-quality CAD/CAM abutments as well through a new open access partnership between the Danish digital dentistry solutions provider and Nobel Biocare.

NobelProcera encompasses a comprehensive range of innovative, science-based restorative solutions for the replacement of teeth in all indications, ranging from the single tooth to the edentulous. Each can be combined with specific material properties to achieve both functional and aesthetic results. According to the company, the system provides easy access to a global network of regional production facilities to better serve each individual network of dental professionals.

New devices and software presented by Sirona

Since March 2011, Sirona Dental Systems operates a wholly owned subsidiary in Turkey. For the FDI Annual World Dental Congress, it has announced to present a number of innovative solutions that, according to the company, are supposed to give dentists a competitive edge through thoughtfully designed as well as enhanced features and working processes. Information about its upcoming Digital Dentistry Symposium in Istanbul will be also available at booth C035, the dental equipment manufacturer said.

On display, will be the recently launched intraoral camera CEREC Omnicam, that allows to take powder-free impression in full-colour. With the device, clinicians are now able to choose from a range of two intra-oral cameras and three milling units according to their individual needs. More options are also available in the new version of CEREC that comes with a virtual articulator for simulating jaw movements for the first time. According to Sirona, this will allow dentist to determine the dynamic contact points in addition to the static ones. Moreover, the CEREC SW 4.2 features a “smile design” function that offers the possibility to check the design and aesthetic appearance of an anterior tooth restoration in a virtual three-dimensional face of the patient prior to treatment. Therefore, the software converts a two-dimensional photo of the smiling patient to a three-dimensional representation with the help of specific facial features.

In addition to all other ORTHOPHOS XG imaging devices, the ORTHOPHOS XG 3D offers high-definition quality in 2-D as well as 3-D. Depending on the type of device, the Panorama CSI Sensor is either integrated into the product or can be purchased as an option. It provides high-contrast, low-noise panoramic imaging, especially when combined with Astra (the anatomically structured reconstruction algorithm), Sirona said.

Sirona says to develop its product in close co-operation with end users. The global company has been producing and marketing advanced dental solutions from its headquarters in Germany for more than 30 years.

Nobel Biocare is continuing to drive dental CAD/CAM innovation with high-end solutions, such as individualised abutments, implant bridges and bars. The company says to approach the development of each new product with advanced engineering, thorough verification, meticulous validation as well as specialised manufacturing techniques and tooling. This results in a consistent precision of fit and exceptional product quality in line with medical device standards.
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The new Tornado 1 and Tornado 2—recent winner of a red dot design award—air compressor units from Dürr Dental are more efficient and economical than their predecessors. Running at only 54 dB(A) they are also less noisy. The one and two cylinder systems are not only extremely quiet but their energy consumption is also particularly efficient. The new Tornados require 15 per cent less energy while delivering the same performance, according to the German manufacturer.

The new units can supply up to three treatment rooms and can be equipped with a membrane-drying unit, if required, for uninterrupted operation around the clock. The systems comply with the highest standards of hygiene through an anti-bacterial coating on the inner side of the pressure tanks, among other things.

Dürr Dental said that the new Tornado 1 and Tornado 2 units combine all advantages of their predecessors, such as reliability, lasting value, a compact form as well as dental air of the highest quality. Air compressor systems by Dürr Dental have been renowned for decades for their sturdy, strong durable performance and high quality standards. The enhanced version of these systems will now be on display in Istanbul.

DÜRR DENTAL GERMANY
www.duerrdental.com
Booth C031–08

Three types of 3-D data with one unit

Planmeca’s 3-D X-ray unit range now offers to combine CBCT images, 3-D face photos as well as 3-D model scans in only one software. According to Finnish company, it is the first in the industry to introduce this concept for creating a virtual patient for different clinical needs. With the launch of the new imaging mode for scanning impressions and plaster casts to its Planmeca ProMax 3D X-ray units, impressions can be automatically inverted to digital casts and instantly stored in the Planmeca Romexis software in standard STL format.

“In Planmeca Romexis, the patient’s digital cast and CBCT image can be superimposed for further visualisation and planning”, says Ms Helianna Puhlin-Nurminen, Vice President of Digital Imaging and Applications division at Planmeca Oy. “The combined data set provides an artefact-free model about the patient’s dentition including bone, crowns and soft tissue, which can be utilised in implant planning and surgical guide manufacturing.”

For orthodontic purposes, the STL data can be further analysed in Planmeca Romexis 3D Ortho Studio module, where dental cast analysis and orthodontic treatment plan can be done in 3-D, according to Puhlin-Nurminen. The Romexis database stores all digital casts together with other patient images. The 3-D model scans can also be utilised in orthognatic surgery planning and for follow-up of the patient’s treatment progress.

The Planmeca ProMax 3D family is an intelligent, all-in-one X-ray unit range designed to obtain complete information on patient anatomy in the minutest detail. The units provide digital panoramic, extraoral bitewing, cephalometric, and 3-D CBCT imaging, 3-D face photos and now also 3-D model scans. The wide selection of volume sizes allows optimising the imaging area according to a specific diagnostic task—always complying with the best practices of dentistry and the ALARA (as low as reasonably achievable) principle to minimise radiation. All patient images are conveniently processed in a single software, Planmeca Romexis.

PLANMECA, FINLAND
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Drive Implants presents reliable and cost-effective implant solutions

*Biology must drive implant design* has been the motto of Drive Implants designers for over 25 years. Based on biological research and longterm practical experience, the French specialist company claims one of the most rational, efficient and easy-to-use range of implants available on the market. Having rethought dental implantology owing to recent market developments, the Drive Implants also says to offer a less expensive way of treating patients with its “access pack”, that contains an implant (high and low profile screw) as well as three inseparable prosthetic elements for the price of one implant.

Drive Implants is an international renowned supplier of unique implant solutions that offer benefits to practitioners as well as patients. Its N-Tec collection, the Bio-Xellent system, and recently launched Specific line with the post extractional synkroline implant and 2.9 mm Specific implant for use in cases with thin crest, have convinced practitioners from all over the world including most of Europe, Middle East and the Maghreb states with their performance, according to the company. Its headquarters in the heart of France has become a centre for excellence gathering researchers, developers as well as dental practitioners. It also boasts a high-tech clinical pilot centre and a training academy under the name of “Ecole Espace 14”.

**Drive Implants, France**

www.driveimplants.com

Dr. René Jung

AKADEMI DENTAL

Booth B75-76

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With Equia, GC has developed a self-adhesive restorative system that is said to provide impressive clinical results in the posterior region. The new concept combines the clinical proven EQUIA Fil high viscosity glass ionomer material with EQUIA Coat light-cured wear resistant highly-filled resin coating for a strong restorative material that is supposed to take glass-ionomer technology to a new level. Unlike conventional glass-ionomer cements, EQUIA has a broader range of indications and can be used for permanent restorations. In comparison to many other filling materials, this modern system offers a significant time advantage, according to the company, as the procedure time of around three and a half minutes means that restorations with EQUIA can be finished quickly. Moreover, the use of a rubber dam is optional.

Since EQUIA Fil undergoes chemical adhesion with the natural tooth structure, there is no need for complex bonding procedures, GC said. Furthermore, the material does not require layering, can be applied in bulk and adapts perfectly to the cavity walls. EQUIA Coat also eliminates time-consuming finishing and polishing steps since the coating only has to be applied once in order to give the finished restoration a unique luster and long-lasting natural appearance.

The EQUIA system is available in a range of fillers and system packs containing capsules of EQUIA Fil and a bottle of EQUIA Coat. The filling material comes in the VITA shades A1, A2, A3, A3.5, B1, B2, B3, C4 and SW (Standard White) and thus allow dentists to fulfill their patients’ demands for tooth-coloured fillings, even in the posterior region.

**GC Equia**

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**GC Europe, Belgium**

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