Planmeca combines CAD/CAM with 3D CBCT data in one software

Dürr highlights new class of energy efficiency suction systems

Nobel introduces complete posterior solution

With the combination of CAD/CAM solutions and key units in the Planmeca ProMax 3D imaging family, dental professionals can now bring together a wider range of information for treatment planning and diagnosis purposes. According to the manufacturer, the Planmeca Romexis software platform opens new doors in creating a new standard of care for patients by offering high-quality features for different specialties, including implant planning and other restorative treatments, all available through one software interface. PlanmecaProMax 3D imaging units reveal intricate information on soft and hard tissue structures, including the mandibular nerve canal, while the Planmeca PlanScan intraoral scanner captures precise data above the gum line. The combination of these data helps build a complete understanding of any case and makes 3-D prosthetic designing quick, accurate, and easy, the company said. Clinics are able to operate more flexibly, as restorations can either be milled at a clinic with the Planmeca PlanMill, a 4.0 milling unit, or easily sent to a dental lab in an open STL data format. Standardised data is the driving force behind many of the latest developments in digital dentistry, as it guarantees the interoperability of images and dental data across different hardware platforms. Bringing Planmeca’s CBCT and CAD/CAM systems together through the Planmeca Romexis software platform makes effective chairside dentistry a reality and presents dentists with a streamlined opportunity to substantially grow their practice. A streamlined digital workflow also ensures the full utilisation of resources, according to Planmeca, leading to a more efficient treatment environment. Instead of two visits, patients can be treated in one hour and with no temporary crowns or physical dental models required.

Planmeca, Finland
www.planmeca.com, Booth #4A5

Tailored to the needs of dental surgeries good, suction systems from Dürr Dental opened up the possibilities for ergonomical dental treatment around fifty years ago. Apoiener in the field the company began distributing them as early as 1964. Since then, Dürr has been constantly working on improving its technology. As a result, the new generation of dental suction systems called Tyscor is quieter, smaller and lighter. According to the company, it also reduces energy consumption by up to 50 per cent. In the 1960s, systematic spray mist suction was developed to successfully deal with fundamental problems such as the exposure of both patients and staff to aerosol-based germs as well as the often uncomfortable working position of dentists, which until then had been unavoidable. It is hard to think of another innovation that has made so much progress with regard to the known prevalence of back complaints in dentists. With the new invention, it was now possible for dentists to treat critical patients whilst they themselves were sitting down.

Nowadays, energy efficiency is becoming increasingly important and this is where Dürr Dental has made inroads with its recent technological breakthrough. Its engineers have designed the new Tyscor generation of suction machines in such a way that it works with radial compressors instead of side channel blowers. Until now, radial compressors have mainly been used for industrial applications. Larger-sized examples include ventilation and air conditioning systems as well as refrigeration engineering, two of many sectors where reliability and endurance are vital.

Tyscor suction machines offer the reliability products from Dürr Dental are known for, the company said. They are easy to install with the help of dental trade experts, require low maintenance and exhibit a high level of failure safety. As the new Tyscor generation works even more quietly than its predecessors, it completely blends into the background. A dry Tyscor suction machine can be easily connected to a watertight system, if necessary. Owing to its modular design, the separation system can be easily integrated into the existing unit, according to Dürr. It goes without saying that the new suction units are networkable and can be used with Tyscor Pulse software meaning that clinicians can conveniently set their suction machine to one of three different suction levels (Eco, Balanced, and Boost) from a personal computer. Owing to demand-based control of the vacuum, users tend to save 50 % in total energy costs compared with traditional devices. The new Tyscor suction machine generation is available now, with each unit being accessible by two dentists. Tyscor V 2 is the dry suction unit and Tyscor V 5 S is the wet version. The CA 2 is also available as a suitable amalgam filtration device.

*Data released by the Fraunhofer Institute, Germany, in July 2014

Dürr Dental, Germany
www.duerrdental.de, Booth A68

Adressing all problems a clinician faces when restoring a single tooth in the posterior, Nobel Biocare is trying to bring innovation back to the posterior region with its new complete posterior solution. Multiple Nobel Biocare novelties combine to make this solution complete, but the foundation for treatment success is the implant itself, the company said. Here Nobel Biocare offers several options, each engineered for the specific demands of the posterior. A new variant offers the benefits of the NobelActive family but with dimensions ideal for the molar region. The NobelActive WP (wide platform) implant possesses a wider diameter implant body (5.5 mm) to better fit the large extraction sites in the molar region and a wider implant platform for an optimal emergence profile.

NobelActive WP also comes in an option with a shorter body (7 mm) to avoid critical anatomical structures such as nerves. Alternatively, clinicians can opt for NobelParallel Conical Connection (CC). Combining a parallel-walled implant body that is well documented with an advanced internal connection’s conical seal and hexagonal interlocking mechanism provide high mechanical strength. It offers restorative flexibility too, being compatible with Nobel Biocare’s most innovative restorative solutions, including those designed specifically for the posterior. These include the new PEEK Healing and PEEK Temporary Abutments, which are anatomically shaped to match the molar contours. As the PEEK Abutments come ready-shaped for an optimized emergence profile, fewer adjustments are needed. This can simplify treatment and reduce costly chair time.

When it comes to the final restoration, the F2Z (full-contour zirconia) implant Crown is designed for strength and predictability even under the high occlusal forces of the posterior. There’s no worrying about chipping either, as the full-contour nature of the NobelProcera F2Z implant Crown removes the need for veneering.

The biocompatibility of the materials used contributes to biological stability in the areas it matters most. Plus, being screw retained, the F2Z implant Crown is completely cement free, avoiding the risks associated with cement excess entirely. Even the titanium adapter is mechanically retained.

The ability to use an angled screw channel (ASC) allows the screw access hole on the F2Z implant Crown to be placed anywhere between 0° and 25° in a 360° radius. This means it can be angled towards the front of the mouth for easy access, even in the posterior. It also helps avoiding placement of the access channel on the cusp of a tooth, where it could affect occlusion. The associated Omnimag Screwdriver further simplifies work on the restoration. Its effective pick-up function and secure grip on the screw help the clinician to work safely and efficiently.

Natural-looking tooth color is another benefit offered by the F2Z implant Crown. Whichever of the eight available shades is used, the color is applied throughout the material. This means discoloration isn’t a concern when making adjustments. Cutbacks and staining can also be used to achieve the desired aesthetic effect.

Nobel Biocare, Switzerland
www.nobelbiocare.com, Booth A211

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According to GC, continuous development of restorative materials is essential to give dental professionals and the patients more options to achieve high-quality fillings with the best aesthetic results, while maintaining optimal physical performance at the same time. G-ænial is the company's answer to the increasing demands to highly aesthetic restorations and superior handling in the market today. A user-friendly restorative that is indicated for highly aesthetic single shade or multi-shade build-ups in all restorative classes, it offers a forward-thinking shading concept that provides enough flexibility to help dentists achieve aesthetically beautiful restorations.

The material contains different interfaces with different optical properties resulting in varied reflection of light. The excellent ability of G-ænial is related to its extremely diverse structural composition, that results in mimicking the reflectivity of a natural tooth thus capturing the genius of nature and creating invisibility in restorations.

G-ænial gives dentists also the option to choose the best handling characteristics suitable to their needs. While G-ænial Anterior allows them to shape, flow and sculpt, G-ænial Posterior provides a more packable, firmer consistency. G-ænial does not stick onto the spatula or matrices and allows to extend working time under ambient light extended to four minutes, the company said. A high strength, low shrinkage stress composite, both Anterior and Posterior shade can have universal application (anterior shades can be used in posterior restorations and vice versa).

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Soredex: Right tools for the job

At the FDI Annual World Dental Congress, SOREDEx, a Finnish manufacturer of high-quality imaging products, is presenting easy-to-use solutions aimed at improving patient care and clinic efficiency. With its CRANEX 3Dx three-in-one imaging system, SOREDEx is now able to offer a 2-D or 3-D imaging solution for a wide variety of diagnostic tasks in the dento-maxillofacial, head and neck, and ENT regions. 3-D imaging is fast becoming indispensable in diagnostic work.

SOREDEx is showcasing its most advanced CRANEx extraoral imaging device to date. The CRANEx 3Dx system combines panoramic and cephalometric imaging with advanced CBCT imaging. It features five fields of view (from 5 x 5 cm to 13 x 13 cm) with a selection of resolutions, including high, standard and a low-dose programme called Minidose. Minidose 3-D programmes are recommended for radiation dose-sensitive cases, such as children, for implant planning, sinus imaging, and follow-up imaging, to name just a few applications. In addition, CRANEx 3Dx provides a specific endodontic programme, ensuring accuracy and detailed diagnostic information for challenging cases.

At Booth A286, SOREDEx is also exhibiting CRANEx Novus a, a 2-D digital panoramic unit with a new sectional panoramic programme. Moreover, congress attendees can view the MINRAY intra-oral radiographic unit and well-known DIGORA product family at the booth. Launched in 1994, DIGORA was the world’s first intra-oral imaging plate read-out system. DIGORA, which comes in two models, continues to be the industry benchmark.

Dental imaging has never been as exciting as it is today, and 3-D imaging is rapidly changing the way clinicians perform diagnosis and determine subsequent treatment. More information about diagnostic imaging and optimising the imaging workflow can be found at www.soredex.com.

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A leading provider of dental milling technologies, Roland DG Australia recently announced the introduction of its new wet milling dental machine, the DWX-4W and other new developments in Roland dental milling technology will be on display at key dental conferences worldwide, including FDI 2015, the company announced.

The recent introduction of CAD/CAM software, CNC milling machines and new restorative materials, has revolutionised the production of dental prostheses, including crowns, copings and bridges. One of the most popular restorative materials is lithium disilicate that is gaining support from dental clinics and patients for its superior hardness and aesthetic qualities.

Roland DG developed the DWX-4W milling machine especially to meet the demands of this growing market.

“By providing a device capable of wet milling a wide variety of materials with reliable precision, we plan to complement our existing portfolio of conventional dry milling machines that already receive great support from dental labs worldwide,” explained Shane Adams, Distribution Sales Manager at Roland DG.

According to Adams, Roland DG has identified a market need that it intends to fill.

“In the current market we are familiar with products that combine the functionality of dry milling and wet milling into a single machine,” he continues. “While these machines can process a variety of dental CAD/CAM materials, they require a cleaning process when switching between wet and dry milling. This includes the disposal of milling residue, then cleaning the inside of the machine and drying out the processing area.”

Roland DG’s multiple device solution of either dry or wet milling can handle the simultaneous processing of different materials without the inconvenience and delay of cleaning.

“Each machine specialises in either wet milling such as the DWX-4W or dry milling such as the DWX-50 and the smaller DWX-4. Furthermore, having separate machines provides the opportunity to add an additional unit to meet production demands, with the ability to run four units off the one PC,” Adams said.

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In the upcoming months, dental professionals from the region will be able to learn about the ever-expanding Ivoclar Vivadent product portfolio, the Liechtenstein company said.

Brenn warmly invited all dental professionals in South East Asia to utilise the newly created ICDE facilities in Indonesia, not only as a place for education and training, but also for exchanging ideas and experiences.

In the presence of 100 guests and partners from South East Asia, dental manufacturer Ivoclar Vivadent recently opened a new marketing office in Indonesia.

Located in the western province of Banten, the office is intended to provide marketing support on both clinical and technical products to business partners in the region. The former general manager of Ivoclar China, Jörg Brenn, will head the new operations.

In addition to its marketing office, Ivoclar Vivadent will offer hands-on courses and workshops held by nationally and internationally prominent lecturers and instructors at a new International Center for Dental Education (ICDE), which will add to the company’s extensive list of educational facilities around the region.

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Global Region Head Asia-Pacific Christian Brutzer commented, “The opening of the new facility shows Ivoclar Vivadent’s long-term commitment to serving the dental community in Indonesia and the region.”

Ivoclar Vivadent currently maintains over 20 ICDEs worldwide, including in Australia, India and The People’s Republic of China, as well as at its headquarters in Liechtenstein.

Perio3 Oil contains natural triple formula for healthy gums

Ozone has become increasingly important in dentistry in recent years. It has been demonstrated to kill viruses, bacteria and fungi and to promote healing processes by activating the metabolism. The ozonised natural gum therapy effectively supports the treatment of acute and chronic inflammation of the gums and, in contrast to chlorhexidine, causes no discoloration. In addition to olive and castor oil, ozone is a main component of Hoffmann’s Perio3 Oil. This highly effective combination excels through its excellent tolerability and is even recommended for the treatment of patients who are pregnant or breastfeeding.

Hormonal changes during pregnancy affect the oral vessels, which are then easier for bacteria to penetrate and lead to periodontal diseases faster. According to Hoffmann, Perio3 Oil is the solution for pregnant and breastfeeding women, particularly owing to the oil not containing any alcohol.

The highly reactive oxygen atoms in Hoffmann’s Perio3 Oil purposefully eliminate the pathogenic anaerobic bacteria and restore the healthy oral flora. The sensitive oral mucosa and the taste buds are not irritated too. The bactericidal and fungicidal properties of ozonised oils have been scientifically proven, when treating periodontal disease, ozonised oil provides better results than a 0.2% chlorhexidine solution. There are significant benefits when it comes to dealing with periodontitis and paraphymononas gingivalis.

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