IDS 2013 surpasses expectations

World largest dental show grows by 6 per cent this year

According to the latest statistics, an estimated 125,000 visitors from 140 countries and 2,058 exhibitors from 56 countries attended the 35th International Dental Show (IDS) in March. The organisers noted growth in the number of international participants in particular. Overall, they reported a 5 per cent increase compared with the event two years ago.

Compared with IDS 2011, when about 118,000 people attended the show in Cologne, this year saw a 5.5 per cent increase in exhibitors, who showcased their innovations, products and services over 150,000 square metres. About 68 per cent of exhibitors and 48 per cent of visitors came from outside Germany. “Owing to the high internationality of the event and the distinct discretionary buying power of the visitors, we expect positive effects for the current business year and sustainable development on the national and international dental markets,” said Dr Martin Rickert, Chairman of the Association of German Dental Manufacturers (VDDI).

The complete market study, including in-depth analysis and trends, is available on the website.

With more companies participating in IDS than ever before, there were plenty of new products to see and discover.

The next IDS will be held from 10 to 14 March 2015.

Dental business in Europe increases

Denmark and France fastest growing markets/More sales achieved online

Overall sales of dental equipment in Europe increased last year, according to a market study presented by the Association of European Dental Dealers (ADDE) and Federation of the European Dental Industry (FIDE) at IDS in Cologne. Sales of consumables remained at the same level in 2012, it also found.

In contrast to the steadily declining number of direct sales, email and web sales increased continuously in nearly all the countries examined. Among these, Denmark was ahead of France and Great Britain as the fastest growing dental market in Europe. With respect to 2012, it was found that despite a slight increase in the number of practicing dentists in Europe, the number of dental technicians has not grown. The number of dental practices and labs has actually decreased, signaling a nearly uniform trend toward consolidation across the continent.

While the number of graduates in dental medicine in Europe declined significantly in comparison to 2011, the same was considerably higher in the US. Nevertheless, the ratio of practicing dentists to patients remained unchanged.

FIDE and ADDE have been collaborating since 1996 and together publish an annual market study of the European dental industry. Along with figures on customers and end consumers, the report also covers sales values for the main product categories such as dental equipment, consumables, implants and CAD/CAM, as well as data on distribution channels, information about current European VAT rates and their influence on the dental market.

The complete market study, including in-depth analysis and trends, is available for purchase at ADDE’s website.
An interview with the new Sirona CEO Jeffrey T. Slovin

Sirona Dental Systems has been operating in the dental industry for more than 130 years. At the International Dental Show (IDS) in Cologne, the company presented 25 hardware and software innovations to facilitate the digital workflow in dental practices. Dental Tribune editor Claudia Duschek had the opportunity to speak with Jeffrey T. Slovin, who was recently appointed CEO of Sirona, about his own impressions of the show and his first as CEO of Sirona. This IDS will certainly be a memorable one that I will never forget. The most exciting development for me is that the solutions we are presenting at IDS were engineered in the time when I was about to become CEO. Seeing all these products exhibited at the show is something that makes me very proud of our employees and company.

With regard to technological developments, I see a lot of companies trying to establish themselves in CAD/CAM today, a business Sirona has been involved in for 28 years. Today we serve more than 30,000 CEREC customers all over the world. I think that we are very well positioned to further serve more than 30,000 CEREC customers all over the world. I think that we are very well positioned to further drive digital dentistry.

Indeed, digital technology is one of the most used expressions these days. Yet, digital technology arrived in dental practices? This digital workflow development is comparable to the transition of film to digital cameras. Today almost all cameras are digital. In dentistry, it is primarily a matter of where practitioners are located. In some areas, it takes longer for adoption, but the reality is that digital dentistry is the future. We see it here today at IDS and it is not a matter of if but when a dental practice will adopt digital. Dentists want their patients to benefit from safer and faster treatment solutions, and I see it coming to life with our CAD/CAM for everyone approach.

And how would you assess Sirona’s position in this development as compared to other companies? These days, many companies talk about being digital, but the ability to truly integrate digital technology is an expertise and great competence of Sirona. With the 25 innovations we have introduced this year, one can see the power of Sirona with regard to integrated solutions. While others may have only one digital solution or integrated workflow, Sirona offers a whole integrated process because our products can be connected. For some period in time, we think that the dentist is going to want an all-Sirona office.

Coming from the US and knowing the overseas dental market very well, what kind of differences have you noticed in Europe and Germany in particular? I have been to many countries, but what I think is in common for all dentists is that they want to practice better, safer and faster dentistry. All patients want to spend less time in the dental chair. This adds significantly to patient acceptance and their experience. Because of that, digital dentistry, digital workflows and integrated solutions matter because not only do dentists benefit from simplified and faster procedures but primarily the patient does, too. I think Sirona is in the best position to help dentists experience all the advantages of the digital workflow.

Market data soon to be available

SDM partners with German Dental Trade Association

While Germany is among the largest markets for dental materials and equipment, sources for reliable sales data are lacking. The global market leader in dental market analysis, Strategic Data Marketing (SDM) will work in cooperation with the German Dental Trade Association (BDZ) to produce its first-ever report on the German dental products market during the third quarter of this year.

A contractual agreement to this effect was concluded between both parties on Wednesday at the International Dental Show in Cologne. The BDZ, which represents roughly 80 percent of German companies specializing in dental products, said to have agreed to provide support in terms of both allocation and delivery of actual industry sales data.

About the Publisher
Discover the power of fibres

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DWOS open software platform continues to progress

Further developments aiming for maximized flexibility and optimized workflow presented by providers at IDS Lunch & Learn event

Two years after having announced their initiative to solve the problem of software incompatibility, the three dental companies 3M ESPE, Straumann and Dental Wings presented the latest progress on the DWOS open standard software platform at IDS 2013. The exclusive Lunch & Learn Event, held on Friday 15 March, illustrated how the commercially available DWOS open software platform can build bridges between clinicians, labs and manufacturers. Over 350 people attended the event.

Thanks to DWOS, dental labs will now have the flexibility of designing prosthetics using data from multiple systems and sources, for example CBCT/CT in-lab models, chairside intra-oral scans, as well as impression scans received directly from dental practices, according to the companies.

They also said that restorations can be manufactured in house as well as be outsourced to milling centres that offer high precision and additional material options.

Mansour Araj, CEO of Dental Wings, described DWOS as a knowledge-based ecosystem that efficiently links clinical information to the manufacturing process through a variety of integrated ‘apps’. When asked about his experiences with the platform, Daxton Grubb, President of R-dent Dental Lab, USA, said: “The main advantage of DWOS is the open software architecture, which allows me to remain at the forefront of technology and optimizes my workflow. My team was excited about the new software and we are manufacturing consistently high-quality products.”

Executive Vice President Business Unit Prosthetics of Straumann Sandro Matter explained the integration of Straumann’s CARES 8.0 into the DWOS platform, which offers customers the choice between Straumann validated solutions or other milling alternatives for the production of prosthetics. According to Matter, the digital workflow will be completed by new collaborations with 3M ESPE and Innovation MedTech, a Swiss company. Using Trusted Connection with 3M True Definition Scanner, dentists can now send digital impressions directly to labs using CARES 8.0 which design and order CARES prosthetics. With the help of the Dental Wings Virtual Model Builder software, they can order a corresponding high-precision model from Innovation MedTech, that is required for finishing the prosthetics, he said.

David Franz, Vice President & General Manager, Digital Oral Care, both 3M ESPE’s LAVA Design software are now supported by DWOS which further increases the possibilities for dental labs and makes digital dentistry more affordable while generating trusted connections between all players involved. Furthermore, it has paved the way for integrating new materials that allow dental labs to offer a wider product range. “DWOS has brought consistency and higher quality to our workflow. We can easily work with different partners as well as outsource the milling process,” commented Dominik Mader from the Zahnmanufaktur in Bern, Switzerland, when asked to describe the impact of DWOS on his lab.

All parties agreed that DWOS has opened the way for stronger collaborations between dentists, labs and manufacturers. The open software architecture allows dental labs to integrate new technology into their current workflow and stay up to date in the rapidly evolving field of digital dentistry.

Ivoclar enters collaboration with CAMLOG

Liechtenstein company has announced that it will collaborate with implant system supplier CAMLOG in Switzerland, making it an Authorized Milling Partner.

The agreement revolves around the processing and marketing of ceramics and composites materials. It will enable CAMLOG to add Ivoclar’s materials to DedoCAM, the newly established division for digital prosthetics.

Both companies disclosed at IDS 2013 that this agreement will be an opportunity for dental laboratories to capitalize on the strengths of the two companies. Through the collaboration, CAMLOG can offer its customers a wider range of services, with restorations as well as veneering and luting materials, made of Ivoclar materials. In the future, CAMLOG will be allowed to integrate all-ceramic materials, such as Ivoclar’s patented lithium disilicate glass-ceramic IPS e.max CAD and IPS Empress CAD, into its range of services. CAMLOG will be able to use the Telesio CAD composite material in the manufacturing of a wide range of temporary restorations.

“The collaboration with CAMLOG presents an ideal combination of know-how in implant dentistry and restorative dentistry to provide comprehensive solutions in the digital process chain,” explained Robert Gales, CEO of Ivoclar Vivadent.

Other collaboration partners of Ivoclar are Nobel Biocare, Straumann and other dental companies.

Ivoclar is the latest Authorized Milling Partner of Ivoclar Vivadent.
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RISKONTROL®
Infection control

Pure newtron
Discover the b-led technology

Achieve
We love to create
GC Corporation innovates in Cologne

Improvements and new products in the fields of prevention, restorative dentistry and prosthodontics presented

Dedicated to the theme of “GC: Innovative. Restorative”, the dental manufacturer’s stand at IDS proved once again that GC never ceases to innovate, even in more “traditional” fields, such as prevention, restorative dentistry and prosthodontics. Among other products, professional personnel explained the new self-cure product Flexiﬁt, which allows to create various types of periodontal splints, root posts and bridges quickly and easily. Innovations were also presented with Fit Checker Advanced and Fit Checker Advanced Blue, both Vinyldent products, which allow to present with Fit Checker Advanced and easily. Innovations were also presented with Fit Checker Advanced and Fit Checker Advanced Blue, both Vinyldent materials in transparent colours for checking pressure spots and the fit accuracy of prosthetic works—for example aesthetic restorations such as crowns, bridges or metal based restorations and dentures.

Another crowd puller was GC’s new Fuji IX GP EXTRA, an improved, self-curing, conventional glass ionomer ﬁlling material. Thanks to the next generation glass ﬁlaments, restorations made with GC Fuji IX GP EXTRA are said to offer a very high transparency, that hardly changes over time. Compared with Fuji IX GP FAST the new Fuji IX GP EXTRA glass ionomer cement also releases three times more ﬂuoride, the company said.

According to the family-owned company, other products also attract huge attention, such as the impress material EXAloxen, which provides dentist and dental technicians with a complete system that offers different viscosities and setting times. In the area of prevention the main focus was on Minimum Intervention (MI), a groundbreaking concept that comprises products like ToothMousse, Mi Paste and Mi Paste Plus. In addition, SalivaCheck Buffer and the Tri-Phylin (3D Gel) provide basic saliva diagnostics as well as impressive caries protection, GC said.

A visit by Makoto Nakao

Whenever the company’s interna-
tional trade press conference is held, Makoto Nakao (Fig. 1), president and CEO of the GC Corporation, always takes the opportunity to greet the audience and set the stage for the presenta-
tions to follow. In his brief welcoming speech at this IDS, he pointed out the latest achievements of the company, which celebrated its 90th anniversary two years ago. He also provided an in-
sight into the corporate philosophy “Semui”, an essential working prin-
ciple of GC and important success factor, that, according to Nakao, com-
bines selflessness, objectivity and great wisdom.

Nakao mentioned that GC’s mis-
sion as a dental company was to con-
tribute signiﬁcantly to the improve-
ment of the quality of life all around the world, which is also linked to good oral health. The company distinct itself through its efﬁciency of its products and services as well as high standards in environmental protection and sustainability, he said. Oper-
ating on these principles, GC is now present in markets on ﬁve con-
tinents with manufacturing sites in Japan, Europe, USA and China. Soon, a site in India will join the group.

The GC International Department is also going to open offi ces in Swit-
zeland by April 2013 with the goal to establish a more centralised location. According to the company, not only all global operations will be launched from these, but it will also be Nakao’s future workplace.

Henri Lenn, director of Global Business for GC Corporation in Japan since early 2012, presented the fruits of the philosophy, such as the third place among 500 companies in a 2010 Quality Management Rank-
ing. In the same year, the “European Foundation for Quality Management” awarded GC Europe with the quality seal “Recognized for Excellence”, bestowing top credentials and ﬁve stars. Lenn said that GC was also among the ﬁnalists of the current nominations.

Despite diﬀerent market condi-
tions worldwide, the GC Corporation achieved distinctive growth again in 2012, according to Lenn. He said that in contrast to general market develop-
ment, GC will be continuously extend-
ing its service and strive to be in direct contact with dental ofﬁces and labo-
atories.

Frank Rosenbaum, General Man-
ger of GC Germany, hosted the press conference, mentioning the broadly based German “Mitarbeit am Wohlbefinden” campaign, an initiative to provide information and education about the opportunities and possibilities of modern basic dental care for the pa-
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Once the interproximal and occlusal contacts had been checked, the occlusal screw access opening was sealed with a piece of Teflon tape and composite, bringing the BruxZir implant case to a successful conclusion.

CASE 7

Delivery of the BruxZir screw-retained crown involved removing the custom healing abutment and then seating the one-piece crown. The abutment screw was tightened to 35 Ncm, and a periapical radiograph taken to verify final seating.

Once the interproximal and occlusal contacts had been checked, the occlusal screw access opening was sealed with a piece of Teflon tape and composite, bringing the BruxZir implant case to a successful conclusion.

– Case by Dr. Michael DiTolla, Newport Beach, Calif., USA
Fig. 2: AD periodontal splinting and after dental fractures, as well as for root canal posts, can also be used as a dental filling material, and it is also used in dentistry are the reinforced composites (FRCs) are commonly used in orthodontic appliances, removable prosthodontics, as well as implant-supported bridges. It can also be used as a dental filling material, to repair tissue repair, and bridges or dentures, as well as for root canal posts, periodontal splinting and after dental trauma.

Researchers who have studied the use of FRCs in dental filling materials have noted that the design of a bicomponent restoration structure is crucial for counteracting polymerisation shrinkage more effectively. This is why evenX®Posterior was developed as a composite material developed with short glass fibres, that mimics the collagen fibres of dentine and therefore achieves a higher fracture toughness for restoration (5.1 MPa/m½).

According to Vallittu, the value exceeds that of dentine, which is a natural, fibre-reinforced material. The optimised length of glass fibres with evenX®Posterior results in high stability and hardness as well as effective adaption of the material to the cavity wall.

Figures 4 and 5: Optimal length of glass fibres with evenX®Posterior results in high stability and hardness as well as effective adaption of the material to the cavity wall.

Owing to its properties as a substructure, evenX®Posterior is suitable for reinforcing composite restorations for larger cavities in the posterior area and also for other composites available on the market.

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As the R&D department of Glidewell Laboratories refines its processes, as well as improving the material’s translucency, aesthetics continue to improve. Advancements to improve the aesthetic properties of BruxZir Solid Zirconia restorations were recently achieved as demonstrated in this case by Dr Michael C. DiTolla, Newport Beach, USA.

While Glidewell does not suggest that dentists suddenly switch all of their anterior restorations to BruxZir crowns, they may want to consider using it for patients with parafunctional habits or old PFMs, where an aesthetic improvement is essentially guaranteed, the company said.

During the first appointment, the PFM crowns on tooth #8 and #9 (Fig. 1) were removed with BruxZir Solid Zirconia crowns (Glidewell Laboratories). Then the shade was taken with help of the VITA Easyshade Compact which displayed the shade in both VITA Classical and VITA 3D-Master shades. Next, the selected 2M1 3D-Master shade tab was held to the tooth, along with the 1M1 3D-Master shade tab for contrast.

The shade tabs in the mouth were photographed. PFG gel was placed into the sulcus of tooth #8 and #9 with an Ultradent syringe. Next, they were anaesthetised with an STA Single Tooth Anesthesia System device. The Razer Carbide bur easily cuts through porcelain and metal substrata, and when used in combination with an KaVo ELECTROtorque handpiece, it easily cuts through the existing PFM. The crown was torqued with a Christensen Crown Remover.

After using a periodontal probe to ensure there is enough biologic width to safely remove some tissue (Fig. 2), a NV MicroLaser was used to remove 1.5 mm of tissue. With the margins exposed, a 454-025 bur and KaVo ELECTROtorque handpiece was used to drop the margins to the new gingival level.

The dental assistant relined BioTemps Provisionals (Glidewell Laboratories) on tooth #8 and #9 with Luxatemp provisional material. Using a thin, perforated diamond disc, the gingival embrasures were opened to avoid blunting the interproximal papilla, as well as to make sure the gingival margin was not overextended and the emergence profile was flat. TempBond Clear was used to cement the BioTemps, and loupes were used to inspect around the temps and gingival embrasures for excess cement.

After two weeks, the temps were removed and the preps cleaned with a KaVo SONICflex scaler. After trimming the gingival margin with the diode laser, an Ultrapak cord #00 (Ultradent) was placed, cutting the cord intraorally on the lingual to avoid any overlap. A second cord (Ultrapak cord #2E) was placed before refining the preparation.

As the top #2E cord on tooth #8 was packed, the top cord on tooth #9 exposed the margin (Fig. 3). Now finishing the preps began using a fine grit 545-025 bur.

Two moistened ROEKO CompreCap Anatomic compression caps were placed on the preps. Then the patient bit with medium pressure for 8 to 10 minutes. The Comprecaps were removed and the top cords pulled. For the impression, medium body impression material was applied around the preparations with a syringe and a bite registration was taken. Then the temps were replaced.

During the third and final appointment—another two weeks later—the temps were off. The BruxZir crowns were approved and a layer of de-sensitizer was placed on the teeth (G5 All-Purpose Desensitizer). A warm Air Tooth Dryer was used after applying both coats of the G5, while the assistant placed Z-PRIME Plus inside the crowns. The crowns were then loaded with a resin-modified glass ionomer cement (ReliaX Luting Plus Automix) and seated, using a pine wood stick to ensure that they were fully seated and had the same length. In the after picture (Fig. 4b), there is not any porcelain on the BruxZir crowns.
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Polymer device a viable alternative to combat the shortfalls of traditional denture materials

Although new to the dental industry, PEEX-OPTIMA, from Invibio Biomaterial Solutions, the sole provider of PEEX-OPTIMA biomaterials worldwide, has more than a decade of proven success in over four million implanted devices including spine, orthopaedic and CMF, all of which demand high mechanical strength, low weight, and manufacturing flex-ibility features. In order to ensure product quality continues through to the denture only certified dental lab partners can purchase this device. This process was launched in September 2012 and assesses that a dental lab has met the necessary criteria to efficiently CAD/CAM removable denture frameworks and implant supported superstructures from a JUVORA Dental Disc.

“By working closely with certified partners it ensures that an innovative and high quality offering is provided to both dentists and patients,” said Reinhard Lobenhofer, a JUVORA Technical Support Specialist.

According to JUVORA, the adoption of the JUVORA Dental Disc continues to rapidly expand and as of March 2013 the certified partner coverage spanned eight countries across Europe. With the growing interest in this device, the JUVORA Dental Disc is proving to be a viable alternative to combat the shortfalls of traditional denture materials, the company said.

Smart Scaling system revealed

Deppeler tries to break new ground in periodontology with launch at International Dental Show in Cologne

Deppeler has recently unveiled the first dental instrument kit designed exactly for periodontal treatments and streamlining procedures by minimising the number of instruments required.

First established in 1934, Deppeler has been using its technical expertise and drive for excellence to service the needs of the dental sector. Recognised for its high standards and its total control of the manufacturing process, the company provides instruments of exceptional quality ensuring the highest levels of strength, effec-tiveness and working comfort. Deppeler also collaborates closely with dental professionals in order to design new solutions and offer a range of instruments perfectly adapted to their needs.

Deppeler SA, Switzerland
www.deppeler.ch

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Smart Scaling system revealed

Deppeler tries to break new ground in periodontology with launch at International Dental Show in Cologne

Unveiled for the first time at IDS in Cologne, Smart Scaling from Deppealer has recently been launched to dental markets. Designed for maximum efficiency, this pioneering periodontal instrument kit has angulation and ergonomic features that allow it to do the same work as up to nine conventional instruments. In addition, it is allowing much better access to periodontal pockets, the company said.

The innovative system also provides practitioners with more comfort in their daily workflow. Like all Deppealer products, the Deppealer Smart Scaling has been designed to make periodontal treatments easier and more effective. Developed with the needs of dental professionals in mind, it is the result of careful and consid-ered research into the shape, the angulations, and the thickness and con-tour of the block.

The depth of the pocket is also critical in periodontal procedures, and Deppealer Smart Scaling is the first instrument system to allow practition-ers to observe the depth of periodon-tal pockets throughout the deplaning process. According to the company, it was designed to simplify professional practice, opening up new possibilities in periodontal treatments and stream-lining procedures by minimising the number of instruments required.

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DEPPELER SA, SWITZERLAND
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DURAVIT 3P by B. & B. Dental

Italian market leader steps ahead with new generation of implants

With DURAVIT 3P implants, the Italian market leader B. & B. Dental is offering a new generation of implants, that is supposed to differentiate itself from other products on the market with unique and advanced characteristics.

The contact area between the fixture and the abutment, for example, is increased by the CONEXA connection which offers internal tapering (cone shape) and a bevelled connection. According to the company, CONEXA provides prolonged durability over time as well as superior stability. Thanks to the internal hexagon and the "move taper" the uncovering of dental abutments are reduced while micro movements can be avoided to allow an optimal distribution of the masticatory load.

The colonization of bacteria is also decreased, the company said. Owing to the platform switching that provides different diameters of the platform and the abutment, vertical bone loss can also be minimised.

Collar microgrowing helps to improve primary stability and to facilitate the placement of implants. In addition, it promotes the healing of soft tissue and reduces the risk of bone resorption at collar level.

The unique triple thread body with its 60° bevelled profile allows an easier and less invasive insertion of the implant body for faster osseo-integration. The perfect anatomical design with a radicular structure implies a variable degree of tapering, more pronounced near apical region.

According to the company, this provides high stability even if the bone is undermined and ensures the full integrity of all proximal structures. The self-tapering system consists of a triple-apical groove that was designed with a special skewed section to promote bone tapering during the insertion and prevent any trauma that can result from pressure at the same time. A "bone-friendly" apex, which helps to evaluate the floor at the mandibular sinus, avoids the risk of perforation.

B. & B. Dental S.r.l. says to be one of the few Italian companies to use high-technological decontamination procedures, such as the bombardment of ionised ions with Argon Plasma, for carefully cleaning the surface of its equipment and removing contaminants efficiently from the implants.

With Speed-Bone, the company has also developed an exclusive treatment that consists of sandblasting surfaces with alumina oxide through a dedicated appliance as well as treatment with double etching exploiting mineral acids. The aim is to achieve a correct and controlled micro-roughness of the implants which facilitates the osseointegration and the initial anchoring of osteoblasts.

According to the company, all processes secure homogeneity along the whole implant surface.

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3Shape launches TRIOS Color
New scanning technology for realistic display of teeth & gingiva

At IDS, Danish digital specialist 3Shape unveiled its new TRIOS Color digital impression solution with RealColor Technology. With the new tool, the Danish manufacturer now offers both TRIOS Color and TRIOS Standard digital impression-taking solutions.

According to 3Shape, the new RealColor Technology in the TRIOS Color digital impression-taking solution facilitates the creation of scan images in the appearance of real teeth and gingiva. Moreover, the realistic display of colours is supposed to make it easy for dentists to distinguish between the different types of restorative materials (metal, enamel, composites, etc.), recognise bleeding areas and easily identify margin lines with enhanced accuracy, the company said.

In combination with 3Shape’s established TRIOS Ultimate Optical Sectioning Technology, TRIOS Color represents a high-performance color scanning solution that is very fast, very accurate and very easy to use, the company said.

In addition, a new configuration solution and an alternative to the TRIOS cart was introduced—the new TRIOS Pod, which enables scanning with the TRIOS handheld scanner and software using selected laptop PCs. The solution offers mobility and flexibility for dentists working in multiple locations or for clinics with limited space, according to 3Shape. Users will be able to control scanning from an iPad or mirror the 3D view on other displays in the clinic, such as monitors integrated in the chair. TRIOS Pod works with both TRIOS Color and TRIOS Standard solutions.

Additional developments that apply to both TRIOS Color and TRIOS Standard digital impression solutions were on display at the company’s booth in hall 4.2. 3Shape, Denmark

www.3shape.com
mectron shows multipiezo touch

**Ultrasonic device to set new standards in prophylaxis**

- Exceptionally user-friendly, the new multipiezo touch ultrasonic device for dental prophylaxis by mectron was developed to be the optimal assistant for every dentist or dental hygienist. In addition to classical supra-gingival scaling, it can be used for subgingival debridement as well as for implant cleaning, the company said.

- According to mectron, its innovative and self-explaining ergonomics are supposed to set new standards in terms of ease of use, comfort, and practice hygiene, as in contrast to common devices, its ergonomic touch panel lets the user control all functions fast and intuitive. Operating the device is therefore possible without buttons and control dials. Owing to the smooth surface, the multipiezo touch can also be cleaned and disinfected much easier than other devices.

- By balancing external factors and adjusting its power level automatically, the intelligent multipiezo piezoelectric ultrasonic technology makes treatment more comfortable for both the dentist as well as the patient. It also boasts a special soft mode for extra gentle treatment power. The integration of a 360° adjustable LED-light makes working with the multipiezo touch even easier, according to the company, as the source of light can be directed right to the spot of activity, which is a unique feature in the field of ultrasonic devices.

- The irrigation liquid container, carrying 500 ml is illuminated by the holder and can be exchanged quickly and easily for maximum flexibility.

- A dedicated tap water connection is also optionally available when water is required as a coolant.

- With 18 different inserts for supra- and subgingival scaling, mectron says it currently offers one of the most extensive ranges of ultrasonic prophylaxis inserts in dentistry.

VDW presents the new GUTTAFUSION

**Obturators entirely made of gutta-percha introduced**

- VDW’s latest product GUTTA FUSION draws from the advantages associated with the use of gutta-percha. The carriers for the thermoplastic obturation of root canals are now made entirely of this material. The obturators have a stable core made of crosslinked gutta-percha, which remains stable even when heated, and are coated with gutta-percha that flows evenly when heated to effectively achieve a dense, 3-dimensional filling. The obturator handle, specially designed to be used with tweezers as well as fingers, is supposed to enable the easy application of obturators in molars. In addition, no other instrument is required to separate it. The obturators also have a high radiopacity, the company from Munich said.

- Good obturation results can be achieved thanks to the homogenous gutta-percha filling of the whole root canal system, including ramifications, isthmus and the apex. The gutta-percha core simplifies the post space preparation procedure and the filling can be easily removed for retreatment.

- According to VDW, GUTTAFUSION is compatible with most rotary NiTi systems. The suitable obturator size can be determined with a size verifier made of nickel-titanium. Obturators and reusable size verifiers are available in the sizes 20 to 55.

GUTTAFUSION for RECIPROC obturators are particularly convenient to use. The three obturator sizes correspond with the instruments R25, R40 and R50. A size verifier is not required. The GUTTAFUSION oven can be used quickly heating the obturators.

Planmeca ProMax 3D combines CBCT, 3-D face photos and model scans

**Three types of 3-D data with one Planmeca X-ray 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 Finish company, it is the first in the industry to introduce this concept for creating a virtual patient for different clinical needs.

- “To 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 tissues, which can be utilised in implant planning and surgery 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 3D, according to Puhlin-Nurminen. The Romexis data base stores all digital casts together with other patient images. The 3D model scans can also be utilized in orthognathic surgery planning and for follow-up of the patient’s treatment progress.

- 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 specific diagnostic tasks, 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."
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