Dürr Dental presents itself again as a modern provider of systematic diagnostic solutions

The future of dental diagnostics is digital. That is why Dürr Dental is developing both the hardware and the software for a complete digital workflow.

Among the new products presented by the specialist for dental technologies during IDS 2019 were VistaVox S Ceph and VistaSoft.

VistaVox S Ceph: An all-in-one unit for the full range of radiographic diagnostics

Dentists are already using VistaVox S for excellent panoramic and CBCT radiographic images. With VistaVox S Ceph, Dürr Dental is now offering orthodontists an all-in-one digital radiographic device adapted to their needs. One of the special features of VistaVox S and VistaVox S Ceph is S-Pan technology for excellent panoramic images. Here, VistaVox S selects from a large number of parallel layers the image sections that correspond best to the anatomy of the patient. This results in images showing the actual positioning of the teeth, automatically cancelling out certain mispositioning errors. This means fewer repeat images and huge time-savings. Just like VistaVox S, VistaVox S Ceph really stands out with a perfect 3-D imaging volume (Ø 130 × 85 mm). It follows the natural shape of the jaw arch and, thus, perfectly maps the relevant region for diagnosis—including the molars. VistaVox S Ceph offers all the qualities of VistaVox S—with the addition of six programmes for time-saving cephalometric exposures. These include the options “Lateral Head”, “Full Lateral Head”, “PA Head”, “Submentovertex”, “Waters View” and “Hand”. As with all other products from Dürr Dental, VistaVox S Ceph is all about smooth processes and user friendliness. That is why the new product features two sophisticated sensors. There is no need for unplugging and reconnecting between the 3-D radiographic unit and the Ceph boom, a process that is both cumbersome and risky. The therapist selects the required programme, positions the patient, and can then immediately start taking the radiograph.

VistaSoft: The heart of your digital practice

The latest generation of Dürr Dental imaging software covers the complete digital imaging workflow for dental practices. VistaSoft from Dürr Dental offers nine different modules that cover all the functions, including taking and processing digital radiographic and camera images, transferring radiographic images via the cloud, and planning implants and drilling templates. This is thanks to the ergonomic design and one-click design philosophy, which ensure that practice team members can get used to the software very quickly and use it intuitively. VistaSoft Implant is a state-of-the-art tool for complete backward planning, from crowns to implants. The resulting planning data is saved as an open STL file and can be forwarded without complications to, for example, a laboratory. The same applies to drilling templates, which can be created with the module VistaSoft Guide. The VistaSoft Cloud offers the perfect platform for sharing, for example, CBCT images really easily with colleagues, laboratories, clinics or patients. Data and comments can be exchanged efficiently and securely, as the images data is transmitted via the VistaSoft Cloud in accordance with the General Data Protection Regulation. VistaSoft is compatible with all current radiographic, scanner and camera systems from Dürr Dental.
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Feel free to contact our members to receive more information about their new products launched at the IDS.

Visit our website for their contact details

www.swissdentalindustry.ch
An interview with Matt Muramoto, Regional Sales Manager at DryShield

Modern isolation systems are designed to accomplish the tasks of a high suction evacuator, dry angles, cotton rolls and gauze in one easy-to-use device. DryShield is an exciting and innovative company in this field and just made its second appearance at the International Dental Show (IDS) in Cologne in Germany after recently receiving the CE marking since launching in May 2014. And just made its second appearance at IDS 2019 about the device and the company’s plans for introducing the system to European dentists.

DryShield promises to be an all-in-one system. What features does it offer?

DryShield was designed with the dentist in mind by our founder, Dr Lan Nguyen, a long-time practicing pediatric dentist. He was seeking to address a need that he and his colleagues associated interest in our product. Now than expensive disposable mouth ropes was the next area of expansion for us. We have had great success with DryShield since launching in May 2014.

Why has DryShield decided to enter the European market?

We have experienced enormous success in the US and Canada, and Europe was the next area of expansion for us. We have had so many dentists contact us from all over Europe requesting an isolation system that was autoclavable. They were looking for something that could fit into the economy of a typical dental office, rather than expensive disposable mouthpieces. Europe represents an attractive market with a high level of demonstrated interest in our product. Now that we have our CE marking, we are selling in Europe and actively building relationships with dealers.

What is the response in Europe been so far?

The response has been fantastic since our participation in IDS 2017. Attendees at the last IDS responded very positively to the DryShield system—it was the first time they had seen an entirely autoclavable system on the market. They were talking about its cost-effectiveness and ease of use with installation in seconds, and, of course, they appreciated that DryShield, like other modern isolation systems, can dramatically increase efficiencies: a study of 100 dentists showed a typical reduction in chair time of 20–30 per cent.

How comfortable is this system for patients?

Because Dr Nguyen works with kids, patient comfort was a top priority. The material is a soft, flexible silicone that doesn’t impinge on the soft tissue, and is great in addressing maxillary and other oral issues. DryShield increases comfort for patients: all the liquids are aspirated, the patient’s throat is protected, his or her mouth can rest on the bite block, and the procedure is over more quickly. The bite block is interchangeable, which means it can be selected to fit an array of differently-sized mouths, for both children and adults. We’re starting to see patients ask their dentists if they use DryShield, and also dentists using DryShield to attract new patients.

Given the continually evolving nature of dentistry, companies need to consider the education when entering a new market. What is DryShield’s approach to education?

DryShield’s vision is to bring new technology to the dentistry profession to help the profession grow and to help dental practices evolve. We believe that modern isolation is essential for dentists in serving their patients while gaining flexibility and efficiency. Dentists that already use modern isolation understand the value proposition of DryShield in terms of providing greater safety and patient comfort, reducing chair time and ensuring that schedules run in an efficient manner.

It’s the more traditional isolation users that need a little more education on the technology and its value. For instance, we talk to customers about our very simple sterilization protocol, in which DryShield goes into the normal autoclave workflow with other dental tools. We go above and beyond by offering every customer a G&A session with an expert, talking through the installation process, patient introduction and so on. We also provide quickstart guides, monthly tips and how-to videos in order to provide help at each stage of the experience.

For more information, visit www.dryshield.com.

Interview: Adopting intraoral scanners is vital for success

An interview with Thomas Weldingh, Deputy Group CEO of 3DISC

The US-based company 3DISC, which recently launched the Heron IOS (intraoral scanner), specialises in quality imaging solutions for dentists. Dental Tribune International spoke with Thomas Weldingh, Deputy Group CEO of 3DISC, about this scanner and the company’s focus at IDS.

Mr Weldingh, which products is 3DISC highlighting at IDS 2019?

We are proud to be showcasing the Heron IOS solution. Recent upgrades mean that the scanner now delivers more detailed and accurate images, has a larger range of indications and operates at a faster speed. Heron IOS is the smallest and most lightweight colour scanner on the market and provides unsurpassed ergonomics for dental professionals. It is designed and manufactured in the US. 3DISC primarily targets small- to mid-sized dental practices. What factors have led to this segment of the market being your focus?

The adoption of intraoral scanners in solo practices is vital for companies’ success. Approximately 70 per cent of all dental practices in the US and 75 per cent in Europe are solo practices. However, only an estimated 5 to 15 per cent have intraoral scanners. Simplicity is key for most practices in this segment. The Heron IOS is recognised as being a simple, reliable and cost-effective solution with an open system structure that allows for ongoing flexibility and freedom of choice.

Can you describe the price model of the Heron IOS?

The Heron IOS is available at a one-time, affordable fee, with no additional costs. The scanner comes with a free programme that automatically updates the scanner with software upgrades as they are released, improving characteristics such as scanning speed, scanning accuracy, colour rendering and usability. It is safe to invest in this scanner today, knowing you will always have the latest generation every year from now.

Thank you very much for the interview.

Handy surgery — The first surgery and sterilization line that shows your professionalism!

Operating room

• Versatility: the equipment and the accessories adapt and integrate perfectly into your practice, according to your specific requirements.

• Linearity: the minimal design and the materials used, i.e. stainless steel, make the entire line look very professional and neat, giving patients a sense of professionalism and cleanliness.

• Exclusivity: the entire line has two patents that certify the uniqueness and innovation for professional dental therapy, aesthetic medicine and general medicine.

Sterilization room

• Professional: designed to guarantee maximum professionalism and cleanliness.

• Technological: including a set of high performance and technological instruments and equipment, indispensable to can carry out all steps in the sterilization process.

• Safe: the highest hygiene standards minimize the risk of any form of contamination.
The dental think tank edelweiss dentistry is known to have pioneered the only direct biomechanical veneering system that has overcome the disadvantages of organic fillers which are commonly used in conventional composites and, thereby, enhanced aesthetics and function. The product range varies from ultrathin anterior and occlusal enamel shells to root canal posts with build-ups, and even includes a novelty in paediatric dentistry: integrating inorganic composite crowns instead of conventional metal crowns or zirconia crowns. This enables a safe and easy treatment, creating healthy smiles for children.

Never before has it been feasible to directly create the natural shape and youthful luminescence of a tooth so easily and perfectly in only one appointment. Its versatile area of application, together with its time- and cost-saving procedure, makes the edelweiss DIRECT SYSTEM a sound investment in the future with the best interests of the patient in mind.

The philosophy of edelweiss dentistry is simple: making dental treatments easy and affordable for patients and dentists alike while following ethical aspects of modern treatments, which is achieved by respecting the principles of biocompatibility and bioaesthetics. This all together allows minimally invasive treatments. Restoration and optimisation are carried out while considering and preserving the healthy tooth structure. The function and aesthetics are reconstructed with a highly filled nanohybrid composite very similar to the tooth substance—a concept that clearly speaks in favour of non- restorative or additive techniques. This makes the edelweiss DIRECT SYSTEM the state-of-the-art for modern and minimally invasive aesthetic dentistry.

The translucent VENEER and OCCLUSIONVD shells, as well as the PEDIATRIC CROWNS, represent the anatomical basis for individual or complete dental reconstructions. After a successful splint therapy, the OCCLUSIONVD shells, where “VD” stands for “vertical dimension”, can be adjusted individually and be used adhesively as non-prep overlays to solve functional problems.

Now Handy Surgery includes a comprehensive design for a sterilisation room that is

- Professional—designed to guarantee maximum professionalism and cleanliness
- Technological—including a set of high-performance and high-tech instruments and equipment that are indispensable for carrying out all the steps in the sterilisation process
- Safe—the highest hygiene standards minimise the risk of any form of contamination.

More information can be found at www.dentalsurgeryunit.com.

Dealers with A-dec received honours at an exclusive awards event at the A-dec booth at IDS.
Small Scanner
Great Impressions

Heron™ IOS
A compact intraoral color scanner weighing only 150 grams, providing unsurpassed ergonomics. Enjoy the simplicity in daily use, in collaboration with the dental lab, and in pricing and procurement. A onetime affordable payment - with no additional license fees or costs per scan.

Heron™ IOS
Designed, developed and manufactured in the United States.
Hygowater® – keeps water clean and complies with guidelines

Stopping microorganisms in their tracks: In just six steps, Hygowater® from Dürr Dental eliminates microorganisms from the process water used in dental units and provides long-lasting protection against biofilms forming inside lines. The water is filtered and disinfected by means of electrolysis. Long-term drinking water quality is ensured without the handling of chemicals. For more information please visit www.duerrdental.com

User Hygowater® water with caution. Always read the label and product information before use.
DIRECT SYSTEM

VENeer
OCCLUSION
VD
POST & CORE
PEDIATRIC CROWN
COMPOSITE

SHAPING THE FUTURE OF DENTISTRY
WITH FUNCTION & ESTHETICS

NEW - PEDIATRIC CROWns
MAXILLA
MANDIBULA

NEW - POST & CORE
ANTERIOR UP
PREMOLAR UP
MOLAR UP & LOW

UNIVERSAL POST
(WHEN TOOTH WALLS REMAINING)

ANTERIOR LOW
PREMOLAR LOW
MOLAR UP & LOW

Convince yourself and try our products at one of our edelweiss workshops.
Please find more information at www.edelweiss-dentistry.com
Swiss oral health company Curaden launched CURAPROX Perio Plus+ at IDS 2019. This pioneering antiseptic range is chlorhexidine, but not as you know it—the mouthwashes, gel and toothpaste are all naturally enhanced chlorhexidine products, and pave the way towards organic oral antiseptics with minimal side effects. The secret? A potent and natural antibacterial: CITROX.

Maximal effect…

Research led by Prof. David Williams at Cardiff University in the UK has proven the unique synergy between chlorhexidine and CITROX—a natural antibacterial agent extracted from bitter oranges. “The active agents in CITROX can attack multiple sites of a microbial cell, leading to improved deactivation, and making the agent effective at inhibiting microorganisms known to cause infections in the oral cavity,” says Prof. Williams. “Our research has shown that a combination of chlorhexidine and CITROX was demonstrably more effective at inhibiting bacteria, compared with using either of these ingredients alone.”

…minimal side effects

Perio Plus+’s unique mix of CITROX and polylysine—another natural antiseptic—prolongs CITROX’s substantivity in the mouth. Because CITROX partially substitutes the chlorhexidine, it is possible to reduce the concentration of chlorhexidine after the initial therapeutic dose, minimising possible chlorhexidine side effects such as discoloration, taste disturbance and irritation of the oral mucosa.

For this reason, the Perio Plus+ mouthwash is available in different chlorhexidine concentrations, ranging from a bactericidal 0.2 per cent to a bacteriostatic 0.05 per cent for adequate, individualised treatment, while the Perio Plus+ Support toothpaste contains a balanced 0.09 per cent. The 0.5 per cent chlorhexidine gel is perfect for localized treatment of wounds, infections or implant complications. Moreover, the toothpaste, gel and regenerate mouthwash contain hyaluronic acid, which promotes tissue regeneration.

A compliance booster

Whereas the addition of Perio Plus+’s active ingredients makes all the difference for dental professionals, taste makes all the difference from the patient’s perspective. Perio Plus+’s pleasant fresh mint flavour minimizes taste disturbance and has been positively received by patients, enhancing patient compliance. Lastly, Perio Plus+ contains no alcohol or sodium lauryl sulphate, ensuring that the chlorhexidine remains effective and the oral mucosa is not irritated.

Keep up to date on everything Perio Plus+ at www.perioplus.com
VistaVox S Ceph: 3-in-1 X-ray system from Dürr Dental.

- Excellent image quality in 2D and 3D thanks to the high-resolution CsI sensor with a pixel size of 49.5 μm
- Reduced radiation dose thanks to the anatomically adapted volume
- Short scan time and high image quality with a low X-ray dose
- Easy, intuitive workflow
- Jaw-shaped field of view
- Ideal 3D imaging volume matched to the shape of the jaw (Ø 130 x 85 mm)
- Ø 50 x 50 mm volumes in up to 80 μm resolution

More at www.duerrdental.com/x-ray
Polydentia showcases its innovative restorative solutions at IDS

Polydentia thanks everyone for visiting us at IDS in Cologne. We highly value the interest in our new products and our line of sectional matrix systems. For five days, dental professionals, opinion leaders and dealers from all over the world could appreciate our restorative innovations displayed during the dental expo. This year, we also offered six live product demonstrations featuring dentists and Style-Italiano silver members who explained how they achieve excellent anterior and posterior restorations and save chair time with our sectional matrix systems and conservative dentistry solutions. We would like to thank Drs Katherine Lineda, Anna Salat, Jordi Manauta, Giuseppe Chiuderi and Antonio Nicolò for presenting our products during the dental show.

Polydentia products launched at IDS

MyTines Small, Medium and Large are autoclavable, replaceable and interchangeable ring extremities especially developed to fit on to myClip 2.0 and myRing Forte. These extremities enhance the adaptation of Polydentia’s sectional matrices to a wide range of clinical situations and teeth with different crown heights. In the case of different tooth morphologies, the ability to combine myTines Small with myTines Medium on the same Polydentia sectional ring provides an improved matrix adaptation to the teeth and a firm grip, thus reducing composite flashes and optimising stability. MyTines Large, instead, offers the ideal system when dealing with restorations of a wide cavity, even in the case of a missing cusp.

MyJunior kit is the first sectional matrix system for paediatric dentistry, and has been especially developed for smaller primary and young permanent teeth. The kit offers child-friendly solutions that help save valuable chair time and reduce the child patient’s distress. Two junior sectional matrix rings are included in the kit, myClip Junior and myRing Junior. These minimally invasive, safe-to-use, brightly coloured paediatric rings combine stability with the appropriate separation force, enabling dentists to achieve ideal contact surfaces. In addition, the extra grip provided by the flexible extremities, myTines Junior and the rounded silicone tubes ensure better adaptation of the sectional matrices, hence, preventing annoying composite flashes and overhangs.

Unica anterior is a simple and ideal matrix for anterior restorations such as Class III, Class IV and Class V, direct stratification composite veneers and shape modifications. Thanks to its contoured shape, Unica anterior adapts correctly to the different morphologies of anterior teeth and makes it possible to restore proximal and cervical margins at once, even in the presence of a rubber dam or gingival retraction cords, thus reducing chair time significantly. The placement wings allow fast and efficient matrix positioning. Furthermore, Unica anterior, once positioned, allows the dentist to easily visualise the final shape of the restoration, even before starting the procedure.

Diamond24 are anatomically shaped silicone tubes designed to be used with Polydentia’s sectional matrix ring myRing Classico. Diamond24 can be oriented in 24 different combinations of shape and length, ensuring optimal matrix retention and adaptation to the tooth, even in the case of difficult clinical situations.

We invite you to discover more about these innovative products and all of our restorative solutions at www.polydentia.ch. You can consult the complete list of our international distributors at www.polydentia.ch/en/distributors.

Furthermore, we are pleased to offer you access to exclusive clinical content, next event announcements, and product updates on our social media pages.

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An outstanding IDS 2019: A retrospective

For the 38th edition of IDS, the famous Japanese architect Kengo Kuma created an entirely new booth design for GC. It was praised by many visitors, customers and members of the press, who took photographs of the booth and shared them on social media.

There was a high turnout, and many people were interested in the latest innovations by GC. "There is an increased interest in complete solutions brought about by the high work pressure in contemporary labs and practices," said Josef Richter, Chief Operating Officer and President of GC Europe AG. "GC accommodates these practitioners with its newest digital developments, integrated services and a complete portfolio of products that are complement each other, sparing practitioners effort in finding compatible products; everything that is needed can be found at the same place, with clear information and instructions for even the most complex situations."

The A-dava Lab Scan 2 and the IDS 100P and IDS 200 intraoral scanners, for laboratory and intraoral use, respectively, attracted extra attention. The digital solutions will be further expanded in 2019 with new 3D printers to be added to GC’s digital portfolio. At IDS again, internationally renowned dentists and dental technicians shared their experiences with visitors at hands-on workshops and Speakers Corner. Contemporary topics, such as molar incisor hypomineralisation, injection moulding techniques, high-strength lithium disilicate aesthetic restorations and different luting alternatives, as well as tips and tricks in the collaboration between laboratories and dentists, were addressed.

IDS is also a great place for networking with peers. The busy chats during the breakfasts and happy hour at the booth created a festive atmosphere. Shortly before IDS, the US International Trade Commission dismissed the allegations of patent infringement filed against us by one of our market companions and that became a hot conversational topic, with a lot of praise for Initial™ Lisi Press the pressable ceramic system.

Next to the professional content, visitors put their best smiles forward, hopping in the photo booth for the most original "Smile for the world" photographs. Many also tried their luck in the bike contest to win a completely personalised bicycle.

And for those who missed IDS this year, the show will be back in 2021. GC will be celebrating its 100th anniversary then and we hope to see you there!

Produits Dentaires presents IrriFlex

Innovative needle design for advanced root canal irrigation.

A new generation of an irrigation needle designed and manufactured by Swiss endodontic company PD (Produits Dentaires) enables more effective cleaning and disinfec- tion in root canal therapy owing to its unique flexibility and exceptional irrigation capabilities.

The IrriFlex needle solves a common problem for dentists: how to completely and efficiently irrigate complex root canal systems. Combining a soft polypropylene body with a unique lateral solution delivery, PD has designed a 30-gauge needle that can easily adapt to the canal anatomy, irrigate effortlessly and clean access areas impossible to reach. The result is enhanced cleaning and irrigation for a more efficient, comfortable treatment compared with conventional metal needles.

PD’s patented needle design encompasses two side vents positioned back to back at the tip for powerful lateral irrigation and a tapered shape to match the root canal preparation, unlike metal needles. The 4 per cent tapered design maximises the shear stress along the root canal walls to improve mechanical cleaning efficacy.

The IrriFlex needle safely performs powerful and complete irrigation of the root canal to improve removal of residue, such as debris, smear layer and biocid, in areas impossible to reach with conventional metal needles.

The needles are produced in a clean room certified ISO 7 and delivered individually in sealed pouches designed for single-patient use, thus, maximising safety.

With this new needle, PD supports general dentists and specialists in performing root canal irrigation more efficiently, comfortably and safely.

The A-dec 500 chair is engineered for better dentistry. The pressure-mapped upholstery comforts the patient, while the thin graceful backrest optimises ergonomic s and brings you in close. Lasting innovation. True comfort. For you and your patient.

Visit a-dec.com/thedifference to find out how every detail behind an A-dec solution furthers the health of your practice.

With the new Lisa steriliser, W&H continues on its journey towards providing even greater user comfort and safety. From the inside, the W&H steriliser offers a wealth of innovative technologies that go beyond the everyday user experience. Equipped with artificial intelligence, Lisa turns high-end type B sterilising into an efficient and safe work process. From the outside, Lisa convinces with its perfect ergonomic design.

Incredible experience
With EliSense, the new Lisa provides an unexpected user experience and the best performance. Its LED indicators and display offer information on cycle status, temperature and much more to optimise both work flow and output. Additionally, now with new artificial intelligence, Lisa brings increased efficiency and control.

EliSense’s Smart Sense helps to shape and optimise the daily work routine. Thanks to this, Lisa continues to learn use-by-use and makes suggestions for greater efficiency in the sterilisation process. It informs users about optimum steriliser usage and even reminds them when the next routine test should be performed, depending on local regulatory requirements. In short, EliSense Smart Sense is a revolutionary technology which goes beyond everyday user experience.

The new W&H steriliser provides clear information on cycle status delivered by EliSense Status Sense. For the first time, a glance at the unit provides all information needed. Small LEDs on the display indicate whether a cycle is in progress or finished, giving users a complete overview of the cycle status at all times.

EliSense’s Temperature Sense serves to protect the practice team and is an important aspect of the new Lisa. Equipped with this feature, the W&H steriliser will warn if the door is open while the load is still too hot to be touched. Lisa, thus, takes care of user well-being and offers greater safety during work processes.

Incredible traceability
A high standard of hygiene is the hallmark of every dental practice. With the new generation of Lisa, this standard is now becoming even more stringent. EliTrace is the new enhanced Lisa documentation system and for the first time offers full traceability down to the single instrument or set without any extra software or computers. The result is a high level of safety for practices and their patients.

Incredible performance
The new Lisa features the improved patented EcoDry+ technology that allows for an even more economical solution. Lisa Eco Dry + adapts the drying time to the mass of the load. This reduces the cycle time, increases the lifespan of the instruments and optimises the energy consumption. That not only results in significant time-saving in reprocessing, but also makes Lisa a “green solution” in everyday practice.

The outstanding technology inside the new Lisa was developed to meet the highest demands. Lisa offers new safety standards, new intelligence and a new user experience, owing to the crystal-clear colour touch display for intuitive navigation through the intelligent menu structure. In addition to these innovative features, the steriliser offers all known and proven Lisa functions, such as User Authentication, Remote Data Storage, shared LisaSafe (label printer), Programmable Start, 3D maintenance animation, help buttons and Remote Monitoring thanks to the Lisa Mobile App.

Visit wh.com for more information.

IrriFlex®
A NEW STANDARD IS BORN

Innovative needle design for advanced root canal irrigation.
To test the product for free, visit pd-irriflex.com
CHX – NATURALLY IMPROVED BY CITROX®

As a powerful antibacterial substance extracted from bitter oranges, CITROX® enhances the efficacy of CHX.
The battle between digital and analogue

Interview with Dr Galip Gurel, Dr Stefan Koubi & Hilal Kuday

As I mentioned in our lecture, when you go into Rebel, there are some mandatory fields you need to fill in, like the facial photographs, the intraoral scanning, the questionnaire, and your or your patient’s preferences. For example, if you would like to have a mild surface texture or a strong or smooth one, you need to enter this information into the software. 90 percent of the information needed can be entered only by clicking, nothing further. Some of the data needs to be entered as a text, but this is very limited, so definitely I can state that Rebel is extremely user-friendly. From a technical perspective, if you send a case without writing anything, only with the information that has been registered by clicking and selecting one of the given options, you will still have a 100 percent digital wax-up. Maybe only 5 percent needs to be entered manually by the clinician in order to complete the smile design. As far as I know, to date, this is the only software that instantly gives its algorithm supports you in this preliminary step. Our workflow was already a personalised smile design, but we didn’t know it until we started our research. When we started sharing cases with each other, at first, we selected only the best cases, trying to evaluate which part of the smile design goes with which part of the patient. Does it depend on physical appearance, which we can’t change, or on personality, how the patient wants to be perceived? We fragment all these smiles and tried to arrange them on what the tooth axis depends, on what the tooth shape depends. After that, we cross-matched these cases and came out with some results, which we put into a software programme. This software is based on hundreds of algorithms, and most recently, we developed software that is driven by artificial intelligence and suggests smile designs that are appropriate for the patient because they go well with his or her personality and appearance. For example, that we will see more in the VIasugSmile, which gives us the 3D design. This programme was amazing for some people who are not aesthetic. How do we find the smile of Hilal or to Stefan, they will understand and transfer it to the patient either with a press kit or, for majority of the dentists it wasn’t an easy task. The main problem was that many dentists couldn’t translate it to the patient’s mouth. We realised that many of our colleagues don’t use mock-ups. They take an impression, send it to the lab and the lab technician prepares a wax-up. Back then, the lab technicians didn’t have much supporting material. They had only a few photographs and a stone model, and they tried to build up the entire case based on that. Nothing was personalised. Everything changed the moment we realised that our IT team could transform 2D into 3D. That is how Rebel was born. Thanks to Rebel, we can transform all of this knowledge into a 3D digital wax-up, which can be sent to the dentist for 3D printing, then for impressions and back to the patient’s mouth. This is the chronology of how personalised smile design became a reality.

A few years ago, you emphasised the importance of good communication with lab technicians. Does Rebel help in this matter?

Gurel: I think Rebel is an amazing tool for ceramists—and I am not talking only for ceramists like Hilal, who is a superstar and a great professional. For the majority of lab technicians, Rebel represents an amazing tool and opportunity to immediately create a 3D wax-up that not only is aesthetic in their opinion, but also perfectly suits the patient’s facial appearance and personality. At the beginning when starting beta testing of this project and giving lectures to dentists and lab technicians, the lab technicians were the first to embrace the idea because it makes their lives much easier. Instead of spending hours carving and sculpting the wax-up without having all the information and you can include as many tooth shapes and forms as you like. And after that, you can play with the software and make some modifications. The problem is that most dentists are not able to experiment with the software because we don’t have the knowledge and ability to do it. That’s the main problem with smile design: the dentists are not able to experiment with the software and the lab technicians have one and the same signatures. Rebel provides a solution, giving you the advantage of outsourcing the headache of smile design. We have to be realistic: most dentists are not able to use the software or Keynote properly; we are dentists, not fancy speakers, or we just don’t have enough time to spend hours in front of the computer. The ceramists don’t have the knowledge or ability to create all the different smiles and manage all the information that they need to create beautiful, nicely fitting prosthetic restorations, then our hands are tied. Fortunately, I am lucky to work with dental experts like Drs Gurel and Koubi, who appreciate my work in the lab. All of the precious information that they register from the patient’s mouth, the questionnaire in Rebel, give us an idea of how to follow nature. At the end of the day, we are a team, we sit down and work together in order to create a beautiful job as partners.

Koubi: With Rebel, we are not talking about replacing the lab technician; we are talking about supporting and assisting him or her. It is very important to keep that in mind. Rebel is a very useful tool to improve the quality of the technician’s work in order to create even more beautiful restorations.

Gurel: One other thing: thanks to Rebel, even more dentists who were previously afraid to work in the aesthetic zone will go into aesthetic dentistry. Imagine that every patient who needs an aesthetic treatment is like an empty canvas. You need to create an artwork there and not every dentist is capable of doing that. Rebel gives you the opportunity to create a masterpiece without worrying about how to use Rebel. All other programmes, as Stefan and Hilal have already said, require detailed computer knowledge in order to create proper smile designs or a great deal of work with digital libraries to position the teeth and to establish a really aesthetic smile. For the dentist to be able to achieve a perfect smile with a single mock-up is a completely different story. That’s the beauty and ease of using Rebel. The effect of integrating Rebel into the digital world will not be erasing and replacing all dental technicians. Instead, it will create a huge community of dentists doing aesthetic cases, which will increase the number of veneers, crowns and bridges to be made in an end result, more dentists and technicians will be needed to cope with the rising needs.

You have touched on some advantages of digital technology, but what are its limitations?

Gurel: Well, there are always limitations. First of all, it won’t work in extremely crowded dentition. We shouldn’t expect Rebel to cope with cases with a reasonable initial situation, for example minor crowding or minor spacing. It is not mandatory for the restorative technique to be additive for every case. That’s another great advantage of Rebel, meaning that if a part of a tooth is protruding out of the aesthetic arch, the software doesn’t take that into account. It will place the original shape over the ideal arch position, leaving that part outside. The advantage of this is that in a traditional way of crowning or crown and bridge, we have to first cut the protruding edge of the tooth and then make the final tooth. In Rebel, we have already started preparing the teeth and if the patient is not satisfied, it will be possible to change the mock-up and then transfer the mock-up into the mouth.

Left to right: Hilal Kuday, Dr Stefan Koubi and Dr Galip Gurel at the Competence in Esthetics event in Belgrade in 2018.

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even with this crowdfunding and then explain to the patient that if he or she doesn’t want the dentist to prep that tooth, she or he needs to undergo an orthodontic treatment. The possibility of having this visual information and communicating with the patient enables you to achieve superb outcomes.

Koubi: We need to have a very clear vision regarding the digital technologies because it is a reality already. In order to be good with digital technologies, you need to be a skillful driver and manager of the whole process because, as we have already mentioned, digital technology serves you as a tool. But you and your lab technician need to be well educated. That’s the basis of your teamwork. Sometimes, people are confused because they believe digital technologies will provide them with all of the clinical solutions, but that’s not true. It only supports us in our work; it speeds it up and improves its quality. We use artificial intelligence to simplify our life, but not to replace the human with his or her mind and knowledge.

Kudyat: I would like to talk through it from a human perspective. As we retain the human factor in the technology, then everything will be alright. Nowadays, we are talking about self-driving cars replacing drivers. Sooner or later, it is going to happen. But if we would like to do something as a team, we need to integrate the human factor to control the whole process. From an ethical point of view, human touch is mandatory during the digital workflow. The operator needs to be either the dental technician or the dentist, not the engineer. The human, not the technology, has to be the creator and leader. The new digital technologies are developing very, very rapidly. For example, if you buy an iPhone today tomorrow will be out of date. This is dictated by today’s economic situation.

Do we need major reforms in dentistry? If so, what might those be with regard to digital technology? Koubi: We need many reforms in dentistry. I will speak also on behalf of my friends and colleagues. In France, two types of dentistry have been established for years: mass dentistry and elite, boutique dentistry. Digital dentistry is very useful for mass dentistry because it makes aesthetic treatment faster and more affordable, but we have to keep in mind that we work in the medical field, not in economics, for example, and we are treating patients. We have to take responsibility for all our actions. Digital technologies will improve the average quality of our work, but will never be better than an exceptionally good dentist. It is the same in other medical fields: surgical robots perform better than an average surgeon, but robots will never be more skilled than an experienced and well-trained surgeon. Most dentists cut too much tooth structure. If you examined 1,000 impressions, you would see that many teeth are over-prepared. Thus, the risk of complications rises. Thanks to robots, we can standardize quality. Is it the best quality? No, it is not, but that’s not the purpose. So it needs to be clear that digital dentistry is certainly our future, but I don’t believe everything will become digital. We need to implement also the human touch in order to exploit all advantages that digital technologies provide, but at the same time to avoid their weaknesses.

What does the future hold for dentistry in your opinion? How do you see the dental world in 20 years? Koubi: Our future is digital for sure. We will have less useless stuff, the impression trays and impression materials will be forgotten. Everything in the dental office will be clean, white and clear as it is now in our clinic. My wish and hope for the future is that dental students will receive better training and be better prepared for the digital workflow. The digital process needs to be better integrated into university curricula. Universities all over the world have to make a significant shift and to implement digital education in every dental specialty so that students graduate already prepared to work with digital technologies because nowadays they have to learn how to do it and then attend additional courses and lectures. Education, not only university education but also continuing education, will become more and more relevant and it will be key to success.

Gurel: My short-term project is to see our robot DIGICUT working. Five years ago, nobody believed that the iPhone would be so small and able to multitask so quickly. Now, it is a reality: your phone, your computer, your camera, everything is becoming even smarter. Our idea has already been born. When we will realize it depends on two things: technical issues, which in my opinion will be solved soon, and patient acceptance—people usually ask me not how it will be done technically, but how patients will allow a robot to prep their teeth instead of a dentist. In the near future, cars will be driven without drivers by artificial intelligence. Our concept is the same; it is even safer. I think the near future will look like that. I hope, as Stefan said, that digital technology will enable us to offer even more affordable treatment plans. I hope that new 3-D printable material like ceramics will speed up treatment and once again make it cheaper so that more people worldwide will have access to high-quality dental care instead of what they are getting now. Everybody deserves to be treated in a precise and predictable manner.

Kudyat: Regarding future developments, I think “affordable” is definitely the key word. Everybody deserves to have unique restorations, not only wealthy people. I would like to emphasise that, if the quality of 3-D printed restorations is high enough, then I will accept it.

What do you think the role of leading brands will be in the future? Gurel: We are all professionals with many of us are occasionally working with big companies. In my opinion, the companies should not sell materials only, but should sell complete storylines, and by that, I mean things connected with each other, so that if somebody starts working with some system he or she should not even think about leaving it, it just like Apple. Once you buy an iPhone, then you buy an iPad, then a MacBook Pro, so you always stay in the family. Why? Because they are very nicely connected with one another. Many people nowadays are afraid of the word “digital.” They are concerned that they don’t have advanced computer skills, and don’t know how to use the software or how to shape the teeth digitally. Working in a digital workflow doesn’t require all of this. A digital protocol should be very user-friendly and intuitive so that once you start using it, you will feel the urge to dive even deeper into it and to also try a scanner, for example. And if it is easy to work with, then you won’t even think about buying a device from another company. If you follow the Ivoclar storyline and you are satisfied with all of its products, then you won’t buy another brand’s porcelain blocks, for example, because you are sure that quality of the end result is guaranteed only if you stay in the family. And if the brand you are satisfied with also offers you a robot to prep the teeth, it will complete the whole storyline and you won’t look for different solutions. Getting a milling machine from one company, porcelain from another and a scanner from a third will create a higher risk of mistakes and complications, so adopting one brand is more convenient for everybody.

Koubi: Dentists want to buy solutions, not ingredients. If you go to an Italian restaurant, you order a whole plate, not the pasta itself, and you are sure that it will be cooked al dente. It is similar to some of the brands on the market; they stress the qualities of some ingredients, some materials, but customers are looking for integrated solutions. This is important for producers to keep in mind and for them to develop and improve their sale strategy according to it.

Kudyat: At the beginning of the congress, Ivoclar Vivadent launched IvoSmile, an application for smile design that gives you the final outcome after aesthetic rehabilitation of the smile. Anybody can download it from Ivoclar Vivadent’s website; even patients can download it and give it a try. This means companies are thinking ahead and they are already trying to establish and improve the connection with each other.

Gurel: When a company delivers a product to patients or to dentists, it should be connected in a clear workflow. If the patient sees the smile design and approves it, the dentist shouldn’t have any fear or uncertainty regarding how to achieve it. In my opinion, dentists won’t even try it because they might be afraid of how to proceed, how to create such a smile design. That is the reason why I am saying we should have a well-established workflow and every new product launched on the market needs to be connected with the rest. When a patient wants a particular smile design, the dentist needs to be certain which 3-D design programme to use. I believe defining a very clear treatment process lies in the near future of companies.

Thank you very much for this interesting conversation! It has been a pleasure having all three of you! 

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Traditional Japanese company SANGI, based in Tokyo, has now launched its hydroxyapatite toothpastes in Germany. At IDS, SANGI provided evidence-based information about the use and scientific background of its products at a press conference titled "The original from Japan: Space-inspired toothpaste with hydroxyapatite for remineralisation".

SANGI Chairman and founder Shuji Sakuma began with insight into the company’s history. Starting out as a small commercial enterprise, SANGI acquired a NASA patent for remineralising bones and teeth. This eventually led to the idea of using the mineral hydroxyapatite. In 1980, SANGI launched the world’s first toothpaste containing hydroxyapatite as an agent for remineralising teeth. APADENT, a second product line, AP AGARD, followed five years later.

SANGI’s special form of hydroxyapatite (medical hydroxyapatite—mHAP) was officially recognized as an anti-caries drug 15 years later by the Japanese government. The effect was proven in several studies. SANGI’s products, including those manufactured for other companies, are very popular in Japan and they have a market share of 7 per cent in oral care. In the top-end segment, APAGARD actually holds a share of 50 per cent.

APAGARD PREMIO was the first toothpaste to be awarded Hall of Fame status by @cosme—Japan’s number one consumer beauty product review. As it was the most recommended toothpaste for three consecutive years, from 2015 to 2017. Owing to this popularity, SANGI executives decided in 2011 to export the products to Russia, Canada, Eastern Europe and some Asian countries. Since the end of 2017, the company has been preparing to export its products to Western European countries too through SANGI Europe, which had established it in Germany.

After this brief introduction, dental hygienist Inumi Hashizume presented several studies and microscopy images to demonstrate how SANGI’s mHAP works. The mHAP remineralizes the enamel on and below the surface and adsorbs harmful bacteria such as Streptococcus mutans more effectively than other calcium phosphates do. By coating exposed dentinal tubules, this active ingredient also protects against hypersensitivity and helps restore the shine and colour of the natural tooth structure.

The product lines for the German market launch are APADENT and APAGARD. SANGI produces EU-compliant versions of these products with a microcrystalline form of the active ingredient especially for the European market, while in Japan, the mHAP particle size has been reduced to the nano range since 2003. The original tooth enamel remineralising toothpaste APADENT with protection against dental caries and periodontitis will be available in three variants in Germany: APADENT Total Care, APADENT Sensitive and APADENT Kids. The APAGARD product line, which is particularly popular in Japan, is based on SANGI’s mHAP and helps to restore the shine and density of enamel in three variants: APAGARD M plus, a convenient family size, offers a balanced mix of all of the product benefits. APAGARD SMOKIN’ is particularly effective for the prevention of stains caused by cigarette, coffee and wine. Finally, the company’s most popular product in Japan, APAGARD PREMIO, completes the range with a higher mHAP concentration.

Jochen Freibert, who is responsible for market development and regulatory affairs at SANGI Europe, explained that the company was pursuing a fairly conservative marketing approach in Germany. The products are being distributed exclusively through pharmacies and dental clinics through the two wholesalers Sanacorp and Hageda-Stumpf. The company has chosen not to advertise and is putting more emphasis on product samples, broad public relations work, a wide range of information in the form of studies, explanations of hydroxyapatite and recommendations.

To learn more about SANGI, please visit: www.sangi-eu.com.
Are you looking for a reliable solution for your implant bar? Are you looking for an affordable solution for your patient? Are you fed up with all-on-four restorations fracturing all the time? At Bio Composants Médicaux, we offer you innovative solutions for your practice. Accessible to all dental professionals, our solutions are safe for you and your patients, simple, fast and easy to apply. Since its introduction, FIBER FORCE CST has set a new standard for reinforcements for partial, removable and all-on-four restorations. Moreover, CST-LINK is a reliable technique for the consolidation of implant transfers and positions.

As a dentist, you will be able to take a very accurate impression in less than ten minutes. Thanks to our innovative fibreglass system, CST-LINK consolidates your transfers together with light-cured impregnated braids. It ensures your technician of a reliable impression that yields only a 50µm difference between the implants that you put in your patient’s mouth and the master model created in the laboratory from the impression. This coming September, we will be releasing an innovative fibreglass braid dispenser to make your life even easier. It will facilitate the application of the fibreglass braid in your patient’s mouth.

As for the technician, the precise impression you received from the dentist (via CST-LINK) will enable you to create a solid fibreglass-reinforced framework that is safe and reliable. Our FIBER FORCE CST braids and braiding technique were inspired by an engineering principle called cable-stayed technology. It is mainly used for the construction of cable bridges. These hybrid braids once chemically bonded in the prosthesis act like reinforcement cables in a concrete structure. The tensile strength is heightened because of them. These braids are impregnated at the core with a UDMA resin. This enables the 3D framework to be viscoelastic. The braids, the inserts and the prosthesis will act and move as one block.

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Planmeca introduces extensive line-up of new products at IDS 2019

The growing Planmeca Visio family of next-generation imaging units is also expanding with the phenomenal Planmeca Visio 05. The newest addition to the company’s range of CBCT imaging units provides exceptional ease of use through, for example, unique patient positioning and intelligent field of view adjustments. With its many accessible features, low-dose imaging protocol and noise and artefact removal, Planmeca Visio 05 is set to become a staple of the dental practice. “The most capable Kray imaging platform just became more accessible,” commented Timo Müller, Vice President of Planmeca’s X-ray division. “We are very excited about making the Planmeca Visio experience available to a wider community of imaging enthusiasts—offering the same great features and benefits to all.”

The intelligent Planmeca Solana Vision is ready to make operating lights even brighter—in every sense of the word. In addition to providing superior lighting over the entire treatment area, the cutting-edge operating light comes with, among other things, computerised image processing capabilities and two fully integrated 4K cameras which allow the recording of treatment sessions for purposes such as patient education or consultation. “Planmeca Solana Vision is a great addition to our product family. Taking premium-quality still images and videos chairside has never been as fast and easy. The benefits include patient education, consultation with a colleague, and documenting treatment information for quality assurance. The seamless connectivity to Planmeca Romexis enables reliable usage information. Planmeca Solana Vision is built on a powerful platform which allows dental professionals to access great features, such as surgical implant navigation, through software upgrades in the future as well.”

Finally, acquiring Piezotome Cube STAR is more than just buying a surgical device; ACTEON believes the phenomenal Planmeca Visio G5. The state-of-the-art water treatment system which complements its new Planmeca Compact i5 dental unit. Planmeca ActiveAqua purifies the water entering the dental unit with out added chemicals, resulting in clean and soft water that is safe for the dental team, patient and dental unit. The revolutionary system is based on electrochemical activation and is fully integrated into the dental unit, which distinguishes it as the first of its kind in the industry. Finally, everything comes together seamlessly in Planmeca Romexis 6.0, the latest and greatest version of our powerful all-in-one software. The new software version includes a wide selection of new tools and features alongside a modern user interface. With a particular focus on usability, Romexis 6.0 offers an easier navigation with fewer clicks and an optimized workflow for all stages of treatment—from image acquisition to diagnosis and treatment planning. Finally, everything comes together seamlessly in Planmeca Romexis 6.0, the latest and greatest version of our powerful all-in-one software. The new software version includes a wide selection of new tools and features alongside a modern user interface. With a particular focus on usability, Romexis 6.0 offers an easier navigation with fewer clicks and an optimized workflow for all stages of treatment—from image acquisition to diagnosis and treatment planning.

The innovative Piezotome Cube STAR ultrasonic surgical device significantly improves practitioners’ experiences and represents the new gold standard in surgery as proven by systematic reviews. Offering high-quality bone management, Piezotome Cube STAR is the minimally invasive solution for extractions and other surgeries related to the preparation of the implant site. Immediate implant placement after an extraction can be challenging when using rotary instruments, but with Piezotome Cube STAR, there is:

• no risk of damaging the alveolar bone—safely remove the tooth while fully preserving the surrounding bone walls to place your implant;
• no risk of piercing the Schneiderian membrane—safely perform a lateral or trans-crestal sinus lift and place your implant;
• no risk of bone loss after split-crest procedures—gently cut the bone with micrometric precision and place your implant.

Thanks to the new STAR tips, Piezotome Cube STAR offers a complete solution for preparing your implant site without the need for rotary instruments, making your surgery more predictable and safer. The increased power allows you to drill through cortical bone without pressure, while maintaining tactileity to guide you safely within the surgical site.

Tooth extractions are not always easy, and traumatic extractions can lead to negative experiences for both clinician and patient, which may affect their relationship. With the demand for immediate implants on the rise, the ridge preservation offered by the Piezotome is key for surgical success. Minimizing any trauma caused during the extraction procedure is crucial.

From a dental professional’s point of view and supported by more than ten years of scientific evidence, Piezotome surgery provides safer surgical procedures, with maximum soft-tissue protection and bone preservation, precise micrometric bone cutting and optimal visibility owing to a blood-free surgical site. It is indicated for extractions of retracted teeth, difficult-to-access teeth, merged roots, root fractures, and ankylosed or impacted teeth.

For patients, Piezotome surgery has been shown to reduce postoperative pain and swelling by up to 50 per cent compared with rotary instruments, making the intervention more comfortable and enhancing the postoperative outcome. No nerve lesions have been observed, compared with 16 per cent of cases with rotary instruments, and up to 50 per cent less analgesic is required when using Piezotome for extractions.

Finally, acquiring Piezotome Cube STAR is more than just buying a surgical device; ACTEON believes the quality of its customer service is every bit as important as the quality of its products. The group provides truly personalized support based on the individual practitioner’s needs and specific situation.”

* Photograph: At Planmeca’s busy IDS booth, visitors were excited to see, among other things, the new Planmeca Emerald St 5 (internal) camera alongside the new and improved Planmeca Romexis 6.0 software.

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Editorial note: A list of references can be obtained from the publisher.