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”, “S-mentovertex”, “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, clients or patients. Data and comments can be exchanged efficiently and securely, as the image 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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SUCCESS THANKS TO INNOVATION AND DEDICATION

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
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 for its eponymous product, allowing its use device. DryShield is an exciting product, allowing for its easy-to-use nature. 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 in great in addressing maculocutaneous and other oral issue. 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 to an array of different sized mouths, for both children and adults. We’re starting to see patients ask: ‘Why use DryShield, and also dentists using DryShield to attract new patients.’

Given the continually evolving nature of dentistry, companies need to consider what Dentistry is like 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 how to plan your practice, and integrate perfectly into your practice, and provide unsurpassed ergonomics for dental professionals. It is designed and manufactured in the US. 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.

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Thank you very much for the interview.
dentistry is known to have pioneered and easy treatment, creating healthy conia crowns. This enables a safe interaction in utmost safety. Handy organic composite crowns instead paediatric dentistry: integrating in- and to improve the dentist–patient but with more advanced functions, ups, and even includes a novelty in surgery line has been studied in order to of our clients and business partners which are commonly used in com-posites veneers. Applying the laser-sintered concept, this technology has dramatically reduced the natural shortfalls of conventional composites and, thereby, enhanced aesthet-ics 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 in-organic composite crowns instead of conventional metal crowns or zir-conia crowns. This enables a safe and easy treatment, creating healthy smiles for children.

Never before has it been feas-ible to directly create the natural shape and youthful luminance of a tooth so easily and perfectly in only one appointment. Its versatile area of application, together with its time- and cost-saving procedure, ma-kes 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 aesthet-ics are reconstructed with a highly filled nanohybrid composite very similar to the tooth substance—a concept that cleanly speaks in favour of non-restorative or additive tech-niques. This makes the edelweiss DIRECT SYSTEM the state-of-the-art for modern and minimally invasive aesthetic dentistry.

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

The edelweiss POST & CORE system achieves in adhesive bonding with the tooth, from root to crown, a biomechanical monobloc. The posts have a conical shape for better post space adaptation. The translucency of the fibre-free post, supported by the integrated lens design, allows un-interupted light transmission for com-plete polymerisation. Moreover, the opaque build-up in dentine shade A1 comes in different anatomical forms.

Like VENEER and OCCLUSION/VD shells, edelweiss PEDIATRIC CROWNS are made of a laser-sintered barium glass, rendering them both anti-bacterial and plaque resistant. Un-like conventional paediatric crowns, edelweiss PEDIATRIC CROWNS have the same flexural modulus as that of natural teeth and that is why the antagonist teeth will not be dam-aged. The mesial and distal margins of the edelweiss PEDIATRIC CROWNS follow the natural gingival line of the primary teeth and imitate these teeth in both form and function. The prefabricated, bioaesthetic mor-phology allows for a quick and safe treatment.

You can achieve the maximum aesthetic results—that are also mini-mally invasive—in just one appoint-ment. No matter the dental situation, edelweiss has the right restoration for it. Try our products at one of our hands-on workshops at the edelweiss headquarters in the west of Austria and convince yourself. Alternatively contact us directly at www.edelweiss-dentistry.com for more information.

edelweiss dentistry—beautiful innovation you can trust.
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

1. PRE-FILTER
   Holds back suspended matter and particles

2. ACTIVATED CARBON
   Adsorbs chlorine, pigments and odorous substances

3. ION EXCHANGER
   Softens the water – protects lines and devices against calcification

4. FINE FILTER
   Removes microparticles up to > 1 μm

5. ELECTROLYSIS
   Effective water disinfection by means of electrolysis

6. ULTRAFILTER
   Removes ultrafine particles, impurities and microbiological contamination

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

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
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OCCLUSION VD
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PEDIATRIC CROWN
COMPOSITE

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NEW - PEDIATRIC CROWNS
MAXILLA
MANDIBULA

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

UNIVERSAL POST
(WHEN TOOTH WALLS REMAINING)

ANTEOR 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 localised 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 minimises 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

Jaw-shaped field of view

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

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 Losada, Anna Salat, Jordi Manauta, Giuseppe Chiodera 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.

Follow us

Instagram: www.instagram.com/polydentia
Facebook: www.facebook.com/polydentia
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 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 Aadva Lab Scan 2 and the IOS 100P and IOS 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 Initio™ LDL 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.

An outstanding IDS 2019: A retrospective

Produits Dentaires presents IrriFlex

Irrigation needle design for advanced root canal irrigation.

A new generation of an irrigation needle designed and manufactured by Swiss endodontology company PD (Produits Dentaires) enables more effective cleaning and disinfection 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 areas once 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 biodegradable solutions, which can be used 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.

Learn more at pd.irriflex.com

Comfort for you, too.
The difference is in the details.

The A-dec 500 chair is engineered for better dentistry. The pressure-mapped upholstery comforts the patient, while the thin graceful backrest optimises ergonomics 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 workflow and output. Additionally, 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.

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.

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The battle between digital and analogue

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

You are three of the world’s top experts in dentistry and you work together as a team, but you are also good friends, right?

Koubi: Of course! Nicely done teamwork is only possible among people who like each other.

During your lecture you spoke about “the most personalised smile design”. What is the point? Do you believe in the individualised approach for every case, and how does it fit in with a fully digitalised workflow?

Gurel: As I explained in our lecture, we have been working like this for years. It provides a personal touch. It depends on your intuition how you approach and evaluate the patient and his or her smile. Even with this protocol, you should have some trials. Maybe sometimes the result will be better. Sometimes the patient won’t like it. 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 fragmented all these smiles and tried to analyse every single example, on what the tooth axis depends, on what the tooth shape depends. After that, we cross-referenced 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 and his or her personality.

That is how we started using this system. An example is the ViagSmile, which gives us the 2D design. This programme was amazing for someone who is not an aesthetic dentist. How do you go from Hilal or to Stefan, they will understand and transfer it to the patient either. The other is to talk 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 technicians prepare 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 cooperation 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 designs: the dentists are not able to experiment with the software and the lab technicians have one and the same signature. 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 shapes and forms you could imagine. By taking Rebel, you get to play with the software and you can create all these beautiful, perfectly aesthetic smiles. And this is a very important step in the dental world; it will not make the dentist disappear, but it will make them more efficient.

Koubi: With Rebel, we are not talking about replacing the lab technician. We are always sure that we are working together 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 already said, require detailed computer knowledge in order to create proper smile designs or a great deal of time with a 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 workflow is that the dental 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, and 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 experiment with Rebel if you’ve got 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 working you had to cut the wax-up into the patient’s mouth we have to first cut the protruding edge of the tooth and then make the veneer. In an end result, we have already started preparing the teeth and if the patient is not satisfied, it will be a big mistake. Ulyana Vincheva, the dental technician who works with us, was previously afraid to work in the lab. All of the precious information that they register from the patient’s mouth, the questionnaire in Rebel, give us an indication 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: For every case, and how does it fit in with a fully digitalised workflow?

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even with this wording and then explain to the patient that if he or she doesn’t want the dentist to prep that tooth or he or she needs to undergo an orthodontic treatment. The possibility of having this visual information and communicating with the patient about how you will 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 skilled 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 simulate your life, but not to replace the human with his or her mind and knowledge.

Kudy: I would like to talk through it from a human perspective. 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 iPad today, tomorrow it 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 most teeth are over-etched. Thus, the risk of complications rises. Thanks to robots, we can standardize quality. It is 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 den- tistry 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 they have to 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 DIGICUTO 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 materials 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.

Kudy: 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 emphasize 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 skills and experience, 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. 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 of 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.

Kudy: At the beginning of the congress, Ivoclar Vivadent launched iSmile, 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 uncer- tainty 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 of you here!
thank you for visiting us at IDS 2019

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Hydroxyapatite toothpaste from SANGI arrives in Germany
From outer space to your mouth.

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, with protection against dental caries and periodontitis. The effect was officially recognised as an anti-caries drug 15 years later by the Japanese government. The effect was proven in several studies. SANGI 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 has been preparing to export its products to Western European countries for several 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 Germany, with which SANGI established its business.

After this brief introduction, dental hygienist Inumi Hashizume presented several studies and microscopy images to demonstrate how SANGI’s mHAP works. The mHAP remineralises 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 dental 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 Friebert, 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
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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

Planmeca put on a spectacular show at IDS 2019. At the leading international trade fair in the dental industry, the company was thrilled to present a sensational line-up of trail blazing new products which both expand and complement its range of advanced digital dental equipment.

At this year’s event, Planmeca brought 3-D printing directly to dental clinics. Designed specifically for dental professionals, Planmeca Creo C5 is a high-speed chairside 3-D printer which enables the fabrication of patient-specific surgical guides, dental models and aligner bases reliably and in the course of a single patient visit. Its compact and robust aluminium body makes it ideal for clinics and laboratories of any size.

The growing Planmeca Visio family of next-generation imaging units is also expanding with the phenomenal Planmeca Visio G5. 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 G5 is set to become a staple of the dental practice. “The most capable K- ray 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 Solanna 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 Solanna 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 making reliable usage information. Planmeca Solanna 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,” states Jukka Kanka, Vice President of Dental Care Units & CAD/CAM Solutions at Planmeca.

At IDS 2019, Planmeca also introduced Planmeca ActiveAqua, a 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 optimised workflow for all stages of treatment—from image acquisition to diagnosis and treatment planning.

It’s time foratraumatic extractions

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Thanks to the new STAR tips, Piezotome Cube SGR 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-accessed 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. 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.

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

* Pictured: At Planmeca’s busy IDS booth, visitors were excited to see, among other things, the new Planmeca Emerald S intraoral scanner in action alongside the new and improved Planmeca Romexis 6.0 software.