



• Der Komfort von Behandlungseinheiten wurde seither über Jahrzehnte kontinuierlich verbessert, was sich ab jetzt im zweiten IDS-Jahrhundert fortsetzt. • The comfort of treatment units has constantly improved over the past decades, which will continue into the second century of the IDS.

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revolutions of the past and offering a careful preview of those to come.

How have you determined what pioneering advancements from the past to highlight and what promising areas of innovation to discuss?

This can be best determined by looking at different innovations that have been or are currently being presented at IDS. For instance, one example from the past is the replacement of

vulcanite with heat-polymerising polymethylmethacrylate resin as a denture material. This year, the extended range of indications of the intra-oral scanner and the possible applications of artificial intelligence are likely to attract a great deal of attention.

Could you explain your example of denture acrylic resin in a little more detail?

In the first third of the 20th century, vulcanite was the denture material of choice, despite it having several

downsides. Patients did not find it to be overly comfortable, and the material was associated with unpleasant odours that developed owing to the added sulphur content. Nonetheless, masticatory function could be carried out. It was the best material available at the time, and it heralded a massive step forward compared with the 19th century. But polymethylmethacrylate heat-polymerising resin set a new standard when it was presented at IDS in 1937—including a practical procedure for processing. It gave pa-

tients unprecedented wearing comfort, and this acrylic resin is still widely used around the world.

You mentioned expanded applications for intra-oral scanners. What can visitors expect from the 40th IDS in this regard?

Dental professionals have become familiar with the benefits of using an intra-oral scanner, for example being able to produce impressions without impression material. Many patients prefer the improved comfort that this digital procedure offers, and they are surprised to hear that it can be superior to elastomeric impression taking in terms of accuracy for smaller restorations, up to small-span bridges. However, the use of physical impressions remains indispensable, including in areas that are difficult to see or in broad areas of implant prosthetics.

In the future, the intra-oral scanner will also be used for preliminary examination and in caries diagnosis, and this information will complement that gained from clinical and radiographic examination. This also brings us to the topic of artificial intelligence, which is particularly effective in detecting structures and patterns in images, such as those indicating caries and caries-free areas.

The use of intra-oral scanners and pattern recognition software that em-

plains artificial intelligence will also help to change the way that dentists and dental clinics communicate with patients. Using intra-oral images, the goals of treatment and options available can often be explained much more clearly to patients.

How has the format of IDS evolved in the past 100 years?

For 100 years, IDS has been a classic trade fair—classic in the sense that visitors attend the event in person in order to experience it. In the past three years, the fair has developed to also include hybrid visitation. Like in 2021, IDS 2023 will again offer digital features. IDScconnect gives visitors and exhibitors alike the possibility of preparing for their time in the exhibition halls, of meeting in virtual rooms and exchanging ideas, and of following up on conversations and meetings held at IDS 2023, after the event. These tools will be utilised to an even greater extent in the future.

At the same time, I see an increase in appreciation of face-to-face meeting in the exhibition halls. We are social beings, and in my opinion, visiting the show provides a great feeling, makes it easier to maintain contacts and offers a very human approach. I look forward to many good meetings and intensive exchange within the dental family at the 40th IDS. «

Kurs auf Nachhaltigkeit *Destination sustainability*

Dr Ralf Seltmann, Senior Manager Clinical Affairs bei TePe, spricht über nachhaltige Zahnmedizin.

Dr Ralf Seltmann, senior manager clinical affairs at TePe, talks about sustainable dentistry.

■ Bessere Mundgesundheit bei gleichzeitiger Reduzierung von Umweltbelastungen ist das Credo nachhaltiger Entwicklung in der Dentalbranche. Diese Ziele lassen sich mit fachlichem Austausch und engagierten Kooperationen besser erreichen. Die IDS 2023 bietet allen Akteuren die Plattform, um sich zu treffen, voneinander zu lernen und gemeinsam Ideen für die Zukunft der Profession zu entwickeln. Was geschieht sonst noch in der nachhaltigen Zahnmedizin?

Weltweit ist der Gesundheitssektor für einen erheblichen Anteil des Rohstoff- und Energieverbrauchs sowie der umweltschädlichen Emissionen verantwortlich. Allerdings wächst bei allen Beteiligten das Bewusstsein für die Umweltauswirkungen, die durch zahnmedizinische Dienstleistungen und Produkte verursacht werden. Gleichzeitig nimmt das Interesse zu, eigene Beiträge zur Erreichung der UN-Ziele für nachhaltige Entwicklung zu leisten, insbesondere in den Bereichen Gesundheit und Wohlbefinden, nachhaltige Produktion und Konsum sowie Klimaschutzmaßnahmen.

Der UN Global Compact betont die Rolle der Prävention und sieht darin eine große Chance zur gemeinsamen Wertschöpfung im Bereich der Medizin und Biowissenschaften. Gleichzeitig wirken sich die Reduzierung und Weiterverwendung sowie das Recycling von Ressourcen innerhalb der Wertschöpfungsketten positiv auf die Ökobilanz aus und machen wichtige Nachhaltigkeitsaspekte für immer mehr Engagierte direkt greifbar. Da-

rüber hinaus lassen sich mit Ressourceneffizienz Kosten sparen und durch nachhaltige Praxiskonzepte Patienten, Mitarbeiter und Kunden gewinnen und binden. Schließlich ist erfolgreiches Wirtschaften ein wesentlicher Aspekt sinnvoller Nachhaltigkeitsstrategien.



Nicht zuletzt vonseiten vieler Patienten, Konsumenten und der Gesetzgeber wird die Erwartung, nachhaltige Maßnahmen und Strategien, die dem gesamten System zugutekommen, umzusetzen, und diese auch transparent zu kommunizieren, weiter zunehmen. Die vom Weltverband FDI World Dental Federation initiierte Kampagne für mehr Nachhaltigkeit in der Zahnmedizin, aus der der Konsens zu umweltverträglicher Zahn-

medizin hervorging, will diesem Anspruch gerecht werden. Darüber hinaus fördern bereits zahlreiche Weiterbildungsangebote, regionale Initiativen, Leitlinien und Wettbewerbe das praktische Engagement für eine nachhaltige Zahnmedizin, und eine wachsende Anzahl wissenschaftlicher Pu-

aber Plattformen wie die IDS, die uns Wissensaustausch und Zusammenarbeit ermöglichen, werden die Entwicklung beschleunigen und die gesamte Branche, unter Berücksichtigung von ökologischen Fragen und künftigen Generationen, weiter voranbringen. «

■ Better oral health with less environmental impact is the credo of sustainable development in dentistry. However, sustainable dentistry can only be achieved through partnerships and cooperation. IDS 2023 provides stakeholders with a platform within the dental industry to meet, share knowledge and spawn ideas for a more sustainable future. But what else is happening in sustainable dentistry?

Globally, the healthcare segment accounts for a significant share of raw material and energy consumption as well as environmentally harmful carbon dioxide emissions. However, awareness of the environmental impact of operative care and dental products is increasing. Additionally, there is a growing interest in contributing towards the UN Sustainable Development Goals, particularly in the areas of good health and well-being, responsible consumption and production, and climate action.

According to the UN Global Compact, preventive healthcare offers one of the greatest opportunities for shared value within the healthcare and life science industries. At the same time, the reduction, reuse and recycling of resources within the value chain has

a positive impact on ecological balance and makes certain aspects of sustainability more tangible.

Resource efficiency can save costs, and sustainable practice concepts can attract and retain patients, employees and customers. After all, successful business operations are an essential aspect of sustainable strategies.

There will continue to be a growing demand in the dentistry segment, not least from patients, consumers and legislators, to implement sustainable measures and strategies that benefit the entire system and to communicate these transparently. One such effort is the Sustainability in Dentistry project initiated by FDI World Dental Federation, resulting in the Consensus on Environmentally Sustainable Oral Healthcare. In addition, numerous initiatives, guidelines and competitions facilitate the practical commitment to sustainable dentistry, and an increasing number of publications deal scientifically with similar issues.

Sustainability, in all its aspects, can be best regarded as an integrated concept within the framework of society and the environment. The elementary principle *primum non nocere* (first, do no harm) seems very relevant here. Sustainable dentistry is not yet mainstream, but platforms like IDS, which allow us to share knowledge and collaborate, will accelerate its development and move the entire industry forward, allowing space for considering not only today's environmental issues but also dentistry's environmental impact on future generations. «

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