From 12 to 14 November, Swedental 2015 will present the latest developments in dentistry at Svenska Mässan, the Swedish Exhibition and Congress Centre, in Gothenburg. More than 11,000 visitors are expected for this year’s meeting, which takes place every year in autumn and alternates between Gothenburg and Stockholm.

Dentists, dental technicians and other dental professionals from Scandinavia and abroad are invited to discover new products, innovative materials and the latest dental equipment at the congress centre, one of Europe’s largest, fully integrated hotel and congress facilities, located in the heart of Sweden’s second largest city.

Up to 200 dealers and manufacturers from the region and elsewhere have registered for the dental exhibition, which will be held in conjunction with the Annual Dental Congress. Both events are organised by the Swedish Dental Society. This year’s focus is the relationship between oral and systemic health.

As dental and oral health are known to affect other parts of the body and general wellbeing, and vice versa, Swedental aims to emphasise the importance of the whole-body concept and foster the exchange of opinion between society, technology and research.

Highlights of the scientific programme at Swedental include a tribute to Prof. Per-Ingvar Brånemark, the father of osseointegration; emerging research findings on uterine transplants and stem cells; as well as an extensive programme on maxillofacial surgery. On Thursday and Friday, visitors will be able to meet with friends and colleagues in a relaxed atmosphere at the After Dent party at the twentyfourseven restaurant in the Gothia Towers lobby from 17:00 to 19:00.

First held in 1973, Swedental has become the leading forum and trade fair for the dental industry in the Nordic countries. More information about the meeting, the parallel scientific sessions and the exhibition is available at www.swedental.se.

Useful information

Contact information
Swedish Exhibition & Congress Centre
Mässans Gata/Korsvägen
412 94 Gothenburg
Tel.: +46 31 708 8000
Fax: +46 31 16 0330
swedental@svenskamassan.se

Opening times
• Thursday, 12 November: 9:00 to 17:00
• Friday, 13 November: 9:00 to 17:00
• Saturday, 14 November: 10:00 to 14:00

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The smart simplification of a composite system

Easy and effective aesthetic restoration with GC Essentia. By Dr. Javier Tapia Guadix, Spain

Leonardo da Vinci said that simplicity is the ultimate sophistication. When it comes to developing an aesthetic dental composite material, we tend to overcomplicate things. However, in our search for competitive advantages, or errors of observation of natural dentition. However, ultimate simplification is possible if we place such matters aside and start from scratch. Developed by the GC Europe Restorative Advisory Board, Essentia brings minimalism to the composite world, with a simplified system that enables easy and effective aesthetic restoration using a very limited number of shades.

The complete kit, with just seven shades and four modifiers, represents a paradigm shift in layering composites. The concept of a composite material with a great variety of hues and chromas within its range is starting to become obsolete. The trend is to have a unique hue but with a large range of chroma options. GC has taken the simplification further to create a new approach with only three dentine and two enamel base shades.

In teeth, the base colour (hue, value and chroma) is mainly determined by dentine, followed by modulation of value by enamel. Value is also determined by the opacity of a translucent material: opaque materials have a higher value, whereas translucent materials have a lower value. It is known that matching hue and chroma is not as important for a successful restoration as matching value. Using the same base opacity for all dentine shades in a system can result in problems, as younger teeth have a very high chroma and high opacity, and older teeth have very high chroma and low opacity. Essentia uses just three dentine shades (light, medium and dark) with increasing chroma and decreasing opacity in order to match the natural ageing process.

Enamels act in a similar manner, with whiter and more opaque enamel on young teeth and more translucent and chromatic enamel on older teeth. Essentia uses just two enamel shades, one with a low value (dark) and a low chroma. Together, these three dentines and two enamel shades produce four basic combinations that can be used as a base for any anterior restoration: Light Dentin with Light Enamel (junior/bleach), Medium Dentin with Light Enamel (young), Medium Dentin with Dark Enamel (adult) and Dark Dentin with Dark Enamel (senior).

Dark Dentin and Light Enamel can be combined for posterior restorations, enabling a highly chromatic dentin substrate to be modulated by a higher value enamel on the occlusal surface. Some specific situations, such as a discoloured substrate, might require an additional step when layering composites. The system contains a high filled opaque flowable composite in order to block discolorations with a very thin layer application. For young incisors with a strong opalescent halo, Essentia provides a special enamel shade, optimised for a very natural opalescent effect. For intrinsic or extrinsic characteristics, such as fissure staining or white spots, Essentia also features three flowable stains: White, Black, and Dark Red Brown.

Finally, to aid further simplification, one universal shade with an optimised chamäleon effect is included in the system too. This material is designed to be used mainly in the posterior region for one-shade restorations. Its properties also make it a good option for heated composite cementation procedures.

Essentia uses just three dentine shades with increasing chroma and decreasing opacity in order to match the natural ageing process.”

Provicol QM Plus, temporary luting cement with even better adhesion

Boasting all of the benefits of the proven Provicol QM, but with even greater adhesion and enhanced strength, VOCO’s new temporary luting cement Provicol QM Plus is ideally suited for application in clinical situations requiring particularly high levels of adhesion.

The material is indicated for the temporary luting of provisional and definitive restorations (crowns, bridges, inlays and onlays), as well as for the temporary obturation of small single-surface cavities. With its increased strength, Provicol QM Plus is ideal for use in clinical situations that require a particularly strong bond. Whether luting in short or small tooth stumps or if retention between the temporary restoration and the tooth stump is poor, with Provicol QM Plus Provicol QM users can select the ideal luting cement on a case-by-case basis. This is made even easier with the new kit featuring two QuickMix syringes of Provicol QM and a syringe of Provicol QM Plus. Together, these two materials offer users flexibility and security for all types of temporary luting.

Its low film thickness, which facilitates precise placement at all times, and optimum flowability make the highly radiopaque Provicol QM Plus an easy-to-use material, which can be correctly mixed in the QuickMix syringe and applied with pinpoint accuracy. Moreover, it is absolutely stable, thus simplifying the precise removal of excess.

As with all products in the Provicol range, Provicol QM Plus is eugenol-free and thus has no bacteriostatic effect, as well as zinc oxide, promoting the formation of secondary dentine and exerting a bactericidal effect, as well as zinc oxide, known for its antibacterial effect.

From a chemical perspective, it is important to observe that dentine and enamel shades have different compositions. While dentine shades are optimised for a higher scattering effect mimicking that of natural dentine, enamel shades are designed for a higher translucency with very high polishability and gloss retention.

As demonstrated in the case reports, this simplified material achieves clinical outcomes of a high standard, with naturally blending restorations that integrate harmoniously in the mouth. This demonstrates that the ultimate simplification of composite systems is no longer a future possibility but a present reality.

Note: The information provided is for general guidance and should not be considered as a substitute for professional advice. Always consult with a dental professional for the most accurate and comprehensive information.
Choose black, get white—The gentle approach to whitening

Swiss brand CURAPROX is now offering a whitening toothpaste. Activated carbon gives the toothpaste both its colour and its name: Black Is White. To maintain good oral health, stains are removed by activated carbon instead of abrasion or chemical bleaching.

In pursuing its goal of effective andatraumatic products, CURAPROX chose activated carbon as the active ingredient for its gentle whitening toothpaste. This ingredient removes stains without abrading the enamel or using a chemical bleaching agent. Instead, it absorbs stain particles and gently eliminates them. Moreover, the whitening effect of activated carbon is enhanced by optical means: a blue filter reduces yellow discolouration. This helps to make teeth appear whiter without the use of chemical agents.

As the toothpaste is gentle and contains 1,450 ppm sodium fluoride, it can be used as regular toothpaste without any limitations. Sodium fluoride acts quickly and creates a more neutral environment. Black Is White also contains enzymes that occur naturally in the saliva. These enzymes enhance the saliva’s antibacterial and antiviral functions. In addition, they protect against tooth decay and help to combat dry mouth. Another component, nano-hydroxyapatite, aims to protect the teeth. Owing to the close similarity of its structure to tooth enamel, it serves as a protective layer on the tooth. Additionally, it has been found to have a remedial effect on damaged tooth enamel and can even reverse incipient caries.

Black Is White does not contain triclosan or sodium lauryl sulphate. This surfactant, which is present in almost all toothpastes, dries the mouth and causes damage to the mucous membranes, leaving the mouth susceptible to aphthous ulcers. Black Is White has a refreshing lemon taste and is available in an extra mild flavour under the name White Is Black.

Swiss-owned company Curaden is a pioneering expert in oral health and individual dental prophylaxis, based in Kriens near Lucerne. Its unique range of oral health products have been created and developed in Switzerland under the brand name CURAPROX since 1972. Together with dental professionals in teaching, research and practice, the company introduces products that serve one purpose only: to keep teeth healthy for a lifetime.

Today, CURAPROX is represented in more than 60 countries worldwide. In 2013, the company ventured into the Swedish market and began building up distribution channels. Its range of atraumatic and effective products suit a mature oral health market such as that of Sweden, a market looking for non-abrasive toothbrushes, durable interdental brushes and non-staining chlorhexidine. Now they are all here! The products are available for consumers via dental clinics and the CURAPROX online shop. In the near future, the company’s key products will be obtainable from well-stocked and updated pharmacies.

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www.curaprox.com
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ACTEON INTRODUCES THE FIRST PERSONAL IMAGING PLATE SCANNER, NEW PSPIX

The field of digital dentistry is rapidly evolving, with new dental technologies emerging as part of a more efficient and comprehensive workflow. Pairing Planmeca CAD/CAM solutions with radiographic units in the Planmeca ProMax 3D family allows dental professionals to bring together a wide range of detailed information for treatment planning and diagnostic purposes. This seamless combination of CAD/CAM and CBCT technology presents new possibilities for an improved standard of care for patients, offering several high-quality specialist features—all available through one software interface.

Planmeca Romexis is the only dental software platform in the world to combine all imaging and the complete CAD/CAM workflow. This powerful solution is at the heart of the Planmeca ecosysterm, as it provides dental professionals with the ability to acquire datasets that are more detailed than ever before. Planmeca Romexis includes advanced tools for all specialties, such as implant planning and other restorative treatments. The software presents dental clinics with a superior way to improve their patient flow and enhance the level of care offered.

Bringing together CBCT data and CAD/CAM work provides a comprehensive level of clarity. Planmeca ProMax 3D imaging units reveal intricate information on soft- and hard-tissue structures, including the mandibular nerve canal, while the Planmeca PlanScan intra-oral scanner captures precise data above the gingival margin. This combination of data ensures a complete understanding of any case and renders 3D prosthetic design quick, accurate and easy. Clinics are able to operate more flexibly, as restorations can either be milled in-house with the Planmeca PlanMill 40 milling unit or easily sent to a dental laboratory in an open STL data format. A more active role in the manufacture of restorations opens up avenues for dental clinics to increase their patient volume significantly and grow their business. A streamlined digital workflow ensures the full utilisation of resources, leading to a more efficient treatment environment.

A more active role in the manufacture of restorations opens up avenues for dental clinics to increase their patient volume significantly and grow their business. A streamlined digital workflow ensures the full utilisation of resources, leading to a more efficient treatment environment. Same-day dentistry is as beneficial for patients as it is for clinics: instead of two visits, patients can be treated in one hour—with no temporary crowns or physical dental models required.

Standardized data is the driving force behind many of the latest developments in digital dentistry, as it guarantees the interoperability of images and dental data across different hardware platforms, reducing costs, increasing predictability and enhancing patient safety. Bringing Planmeca’s CBCT and CAD/CAM systems together through the Planmeca Romexis software platform makes effective chairside dentistry reality and presents dentists with an opportunity to grow their practice substantially.

ACTEON, a world leader in dental imaging, officially presents the new PSPIX, the first imaging plate scanner for the practitioner’s personal convenience. Its revolutionary size, design and user friendliness will appeal to all dentists. This affordable scanner is aimed at improving efficiency and enabling the dentist to be more dedicated to patient care.

The advanced technology used in the scanner marks a defining moment in terms of excellence. The new PSPIX is as much as three times smaller than other imaging plate scanners, making it the most compact system on the market. Dentists can now put a PSPIX next to each operating chair to improve their workflow and productivity. An exceptionally sharp, high-quality image can be obtained within a few seconds, allowing a clinical diagnosis to be made very quickly.

Featuring the exclusive Click & Scan concept, the new PSPIX has been designed for multiple use and can be shared by up to ten workstations at any one time. Finally, the device is the only scanner on the market with optional removable parts that can be sterilized in an autoclave to give maximum protection, thus fully fulfilling even the highest expectations in terms of hygiene. The new PSPIX produces the best results for every dentist, making it exclusive.

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info@gceurope.com
http://www.gceurope.com

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GC NORDIC AB
Tel. 08-506 361 83
info@nordic.gceurope.com
http://nordic.gceurope.com
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