Wealth of offerings at DTS, Dentistry Show

Largest display of dental innovation and education for UK dental professionals at the NEC in April

By DTI

BIRMINGHAM, UK: The National Exhibition Centre in Birmingham is preparing for the next Dentistry Show and Dental Technology Showcase. Distinguished dentistry lecturers Dr Didier Dietschi and Louis Mackenzie are just two of the confirmed speakers at the upcoming edition to be held on 22 and 23 April next year.

The show will again see a wealth of continuing professional development (CPD) opportunities during an extensive two-day lecture programme. In addition to the Aesthetic Dentist Theatre, there will be sessions specially tailored to all members of the dental team and all specialties, including endodontics, periodontology and facial aesthetics. Moreover, the Short-Term Orthodontics Lounge will bring professionals up to speed with GDP orthodontics and the wide range of appliances that are available to practitioners today.

More than 7,000 visitors are expected again for the show, which will see over 400 manufacturers and distributors of dental equipment exhibiting their latest product developments and solutions in the field. Following its successful relaunch at last year’s edition, Dental Tribune will once again showcase its extended portfolio of publications at booth M100. Interview, photos and daily news from the show floor are also available online at the Dental Tribune UK & Ireland website (dental-tribune.co.uk) and Facebook page. With over 100 laboratory-dedicated exhibitors at the Dental Technology Showcase, experts will further demonstrate first hand the application of leading materials and advancements in dental technology. In addition, more than 50 hours of verifiable CPD will be on offer (with 14 hours of vCPD available), and highly popular features will be returning from the 2015 show, including the CAD/CAM Theatre.

Professionals interested in attending the events can register in advance on the official website (www.thedentistryshow.co.uk). Information about the programme and exhibition is also available there.

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Non-precious dental alloys on nickel-chrome base System KN and System NH
- Non-precious dental alloys on cobalt-chrome base System NE and System Duro
- Partial alloy System MG
- CAD/CAM discs on cobalt-chrome base System NE-Blank and System Soft-Blank
- CAD/CAM disc on titanium base System Ti5-Blank
- Investment for crowns and bridges ADENTA/VEST CB
- Investment for partial denture ADENTA/VEST PA

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GC presents next generation in universal bonding

Selecting the appropriate bonding for a given indication and making sure to follow precisely the different procedure steps is not always easy. Convenience and having just one procedure to remember are perhaps the main reasons many dentists nowadays prefer to use universal bonding systems. Based on the experience gained with its previous adhesives such as G-Bond and G-ænial Bond, dental materials manufacturer GC (Booth 80) has introduced a one-component light-cured universal adhesive on the market that is said to achieve outstanding performance with all etching modes and in all situations.

A result of years of research and development, G-Premio Bond is the universal bonding solution for dentists who believe in zero compromises, according to the company. It is compatible with self-etch, selective etch and total etch techniques, and performs equally well in direct bonding cases, repair situations and hypersensitivity treatment. G-Premio BOND shows excellent, long-lasting bond strength on both enamel and dentin, regardless of the etching mode. In fact in GC’s own research on enamel and dentin in self-etch mode, G-Premio BOND had the highest shear bond strength values after thermocycling among all products tested. A unique combination of three functional monomers (4-MET, MDP and MDTP), notably excluding HEMA, ensures excellent stability and bond strength not just to tooth tissue but to all indirect substrates, including composites, precious and non-precious metals, zirconia and alumina for all repair cases. When combined with Ceramic Primer II, G-Premio Bond will create a durable adhesion to any type of glass ceramics.

The adhesive behaves like water, despite the presence of fillers and photo-initiators that help achieve a strong bonding layer. With G-Premio BOND’s optimal wetting and penetration and a drying procedure that takes just five seconds at maximum air pressure, an extremely thin film thickness of 3µm can be achieved. These characteristics and the absence of HEMA guarantee the preservation of the bonding layer over time, ensuring durable aesthetics without discoloration.

Errors caused by the operator are almost impossible with G-Premio Bond, according to GC, owing to a simplified procedure with low technique sensitivity. That means for instance that the bond strength is not compromised if the waiting time is cut short, drying guidelines are self-explanatory and light-curing is very efficient thanks to the high photo-initiator content. GC further added a visual control to drying & light-curing, with the liquid displaying a yellowish colour before curing and a perfect invisibility after curing. G-Premio Bond helps to save precious time with a 25-second procedure in self-etch and 30 seconds in selective and total etch mode. This is especially useful in situations where isolation is not optimal or in cases involving children. G-Premio Bond has a working time of seven minutes in its dedicated dish, plenty of time for a stress-free application. Dentists will enjoy the hassle-free versatility of a one-bottle, easy-to-use solution, according to GC. The bottle design is supposed to protect the liquid from the heat of the fingers and prevents solvent evaporation. Waste is also minimised owing to a unique silicon bottle cover and a thin nozzle that releases up to 300 small drops per bottle.

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3DISC presents expanded digital imaging portfolio in Birmingham

Dental equipment manufacturer 3DISC (Booth M12) invites the visitors of The Dentistry Show to experience the high diagnostic value of its digital imaging portfolio that include the compact and fast phosphor plate reader FireCR Dental and FireCam HD intraoral camera.

A full size 4c phosphor image plate enables dentists to capture more teeth and roots on the same image, without having to stitch smaller images together on a computer. The FireCR Dental PSP Reader by 3Disc ensures fast and high-definition images with five IP sizes. Installing it takes just 15 minutes from box to first image. The IP-protecting magnetized tray ensures a longer life, by keeping it completely flat, avoiding to bend it during read-out.

“We have a FireCR Dental in each of our exam rooms because it increases our productivity. The FireCR Dental is incredibly simple. It is easy to install and easy to use with a very unproblematic workflow. We received a good introduction, but even without training, the system is intuitively easy to use. I would definitely recommend to all dentists who are about to invest in new digital X-ray equipment to first consider a FireCR Dental,” said a Danish dentist, who already uses the system.

Dentists can use the FireCam HD during consultations to highlight the patients’ need for treatment by showing them a clear picture of oral issues and to register progress during on-going treatments.

More information on both products and the company’s other products are available online at www.3DISCimaging.com.

Adentatec: Whole range of lab products on display

Based in Cologne in Germany, Adentatec (Booth 230) is a global provider of non-precious dental alloys on cobalt-chrome and nickel-chrome base, as well as CAD/CAM discs on cobalt-chrome and titanium base. Its SYSTEM SOFT-BLANK is a nickel-beryllium-free cobalt/chrome disc for use in CAD/CAM processes.

Furthermore, it is suitable for soldering. SYSTEM SOFT-BLANK is especially soft, good tensile and homogeneous owing to special heat treatment and features high corrosion resistance and biocompatibility. According to the company, it is available in many diameters and measurements, for almost every type of machines.

Established in 1997, Adentatec offers a high-quality range of products for dental laboratories. All medical devices distributed by the company are exclusively produced in Germany and are certified to the highest standards (CE marking and US Food and Drug Administration), as it is committed to the strict implementation of the quality and process requirements of DIN EN ISO 13849 and DIN EN ISO 9001 for its entire manufacturing process.

EndoUltra for improved debridement

Dedicated to the industry, Vista Dental Products has been offering hundreds of quality dental products that include endodontic solutions for over 20 years. The EndoUltra ultrasonic activator EndoUltra is yet another example of product innovation from the US company.

Science has shown that irrigants are more effective when they are electromechanically activated. Acoustic streaming and cavitation of endodontic solutions significantly enhance cleansing of difficult anatomy. However, studies have shown that low-frequency (sonic) oscillation (160–190 Hz) is not sufficient in creating acoustic streaming or cavitation within the canal space.

Available exclusively from Vista, the battery-operated piezo ultrasonic (40 kHz) activation device is capable of producing acoustic streaming and cavitation in small canal spaces. This results in significantly improved debridement, disruption of biofilm, as well as improved penetration of irrigants into dentinal tubules, as well as the removal of vapour lock, the company said. EndoUltra features special 15/02 activator tips, that resonate along the entire length of the tip and do not engage tooth structure. They also feature depth markers at 18 mm, 19 mm, and 20 mm. EndoUltra is available for UK dentists through Euro Dental Depot at Booth M22.
TOP 10 REASONS TO INVEST IN BIRMINGHAM

1. STRONGEST GROWTH IN ECONOMIC OUTPUT
Between 2012 and 2013 (latest available data) Birmingham’s workplace based Gross Value Added grew by 6% - more than double the UK rate of 1.6%.
Source: Office for National Statistics (ONS) GVA data

2. MORE FOREIGN DIRECT INVESTMENT (FDI) THAN ANY OTHER REGION
77 foreign direct investment (FDI) projects were attracted to the Greater Birmingham and Solihull LEP (GBSLEP) area in 2014 – up by 57% on 2013 and the highest of all the LEP areas. The area also created the most jobs – a total of 4,841 - a 98% increase on the previous year. Source: UKTI

3. MOST ENTREPRENEURIAL UK CITY OUTSIDE LONDON
18,337 new businesses were registered in Birmingham during 2014 – an increase of over 2,000 on the previous year, and more than any other city outside the capital. Source: StartUp Britain analysis of Companies House data

4. LEADING EXPORT PERFORMANCE
At £21 billion to date in 2014 (Jan-Sept) exports from the West Midlands have been the second highest in the country behind only the South East – and higher than London. In 2013 the West Midlands reduced its balance of trade deficit by nearly £6 billion, the biggest reduction of any region. Source: HM Revenue & Customs Trade data, 2012/13

5. STRONGEST GROWTH IN INTERNATIONAL TOURISM
Between 2012 and 2013 Birmingham saw an increase of nearly 230,000 (32%) in the number of international visits – the strongest growth in the country in absolute terms and more than all other core cities put together.
Source: ONS International Passenger Survey

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Birmingham was ranked as having the highest quality of life of any UK city outside of London in 2013. In 51st place in the world rankings the city was ahead of Glasgow (54th), Aberdeen (56th) and Belfast (63rd).
Source: Mercer Quality of Life Index

In 2013 Birmingham had the highest proportion of pupils achieving at least 5 GCSEs at grades A*-C including English and Maths of all the English core cities. Birmingham also had the highest proportion of local authority run schools receiving an ‘outstanding’ OFSTED inspection rating.
Sources: Department for Education, OFSTED

In 2013 5,480 people relocated from London to Birmingham, well ahead of its nearest rivals, suggesting that affordable housing, good quality of life and relative proximity to London are all making Birmingham a particularly attractive proposition.
Source: ONS Internal Migration Statistics

In 2014 Birmingham was the most popular conference and event destination in the UK outside London.
Source: British Meetings & Events Industry Survey 2014/15

Between 2003 and 2013 Birmingham’s population increased by nearly 96,000 – well ahead of its nearest rival. Birmingham is also the youngest major city in Europe and has seen the fastest growth in numbers of under 25’s of any UK city outside London.
Source: ONS population mid year estimates

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ClearCorrect clear aligner therapy discreetly improves crowding and constricted archforms

Today, there are more options available to those seeking orthodontic services than ever before thanks to advances in clear aligner therapy. The rising popularity of ClearCorrect and other clear aligner providers has spiked over the past decade, and is only expected to continue its aggressive growth trajectory.

According to a recent Azoth Analytics research report, the global invisible braces market is expected to grow at an annual rate of 12.16 per cent from 2016 to 2022. New more teens and adults are seeking orthodontic treatment for a wide variety of reasons, such as, improved aesthetics, affordability, and orthodontic relapse.

ClearCorrect aligners are more affordable than leading competing brands, allowing doctors to pass greater savings to their patients. Doctors can easily submit digital intraoral scans and manage their cases on the user-friendly website while also working with a designated customer service specialist. ClearCorrect is suitable for most treatment goals from minor cases to more advanced crowding and spacing complaints.

Dr Mark J. Bentele successfully treated a patient’s chief complaint of adolescent orthodontic relapse with ClearCorrect. The patient had a Class I right, Class I left molar relationship, with a Class I right, end-on Class II left canine relationship.

Dr Bentele submitted the case to ClearCorrect and requested an improved upper and lower midline, and also requested an idealized overjet, improved overbite, and improvement of the constricted arch forms while maintaining molar relationship (Figs. 1–3). Proclination of the mandibular incisors was requested and #42 be distained into a proper Class I relationship, and all spaces were to be closed.

The ClearCorrect treatment plan estimated 24 sets of aligners. The patient was compliant wearing each set of aligners for three weeks (at least 22 hours a day). At the start of treatment, facial translation of premolars and canines occurred, and then engagers were placed on teeth Nos. 7, 10, 22 and 27 and 0.3 mm IPR was performed on the mesial/distal #27. After the engager placement, the patient re-engaged placement, the patient received the fifth set of aligners and was also given his sixth set to take home. Next to complete the patient’s total treatment, a contact check on tooth #27 was performed to ensure patient compliance, and teeth #22 and 23 were correctly aligned.

The patient progressed more quickly than originally planned, and only needed 16 sets of aligners as opposed to 24 sets. At the end of the ClearCorrect treatment, all objectives were accomplished and the patient was instructed to wear retainers at night time indefinitely (Figs. 4–6). Upon treatment completion, Dr Bentele’s patient was very happy with the results and the effectiveness of ClearCorrect clear aligner therapy.

Founded in 2006 by dentists, ClearCorrect understands the needs of both doctors and patients, and has been proven effective for more than 10,000 doctors worldwide. Doctors find that ClearCorrect is easy to implement into their practice with convenient access to online optional training with marketing kits at their fingertips. The company designs, manufactures and supports its products out of its headquarters based in Round Rock, TX, USA.

Teens and adults can benefit from clear aligner therapy due to the aesthetic, affordability, shorter treatment period, and lasting results.

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About 8 per cent of the world population has bruxism, a condition commonly associated with sleep disorders. While existing home testing devices are expensive and not patient friendly, Bruxlab (Booth N12) makes it possible to detect the oral parafunctional activity in a cheap and easy way. The Dutch company has developed diagnostic tools to record and quantify any grinding sounds using machine learning, mobile app technology and wearables.

Dental Tribune spoke with Michiel Allessie, owner of Bruxlab, about the algorithm used to detect bruxism.

Dental Tribune: Mr Allessie, you have been a general dentist with your own practice for over 14 years. How have you detected signs of bruxism in the past, and what have been the major disadvantages of conventional ways of diagnosing sleep bruxism?

Michiel Allessie: The clinical signs are always the same: excessive tooth wear, sensitive teeth, headaches, fatigued jaw muscles in the morning, etc. The problem is that sleep bruxism can stop spontaneously. Also, a large group of bruxers are not chronic bruxers. So, a dentist cannot determine whether there is active sleep bruxism and the patient is a chronic bruxer using the conventional clinical signs. I see this as a major disadvantage. Now, we can track patients using our DoIGrind app to see if there is active bruxism and if it is chronic. Our Bruxsticker makes it possible to measure movement of the lower jaw during sleep. The integrated nano-accelerometer and Bluetooth chip, in combination with our app, record and filter tooth-grinding sounds over multiple nights.

If bruxism is left untreated, the problems with chronic patients can be very severe in the long term. For non-chronic patients, the long-term problems may be mild. I track those patients with the app twice a year to check that they have not become chronic bruxers.

You founded Bruxlab in 2014 for effective treatment of bruxism using an innovative app. What is the idea behind Bruxlab and how does it work? What should dentists and patients know?

We created an algorithm that can filter any tooth-grinding sounds and tooth contact sounds. The latter often indicate the beginning of a clenching episode. I validated the sounds using the gold standard, polysomnography, better known as a sleep test. This test will tell you if there was muscle activity at the same time that a grinding sound was detected. The device on which the app is loaded is placed next to the bed and records and filters any tooth-grinding sounds. On average, we reduce 8 hours of sleep to 5 minutes of relevant sounds. The sounds are uploaded to the cloud, where the dentist can listen to them. Most dentists recommend the app to prove to patients that they are correct about suspecting sleep bruxism.

Once bruxism has been detected using the DoIGrind app, what treatment options do you recommend to dentists and patients? This depends on whether the patient is a chronic and severe bruxer or a non-chronic and rather mild bruxer: For the chronic and severe bruxers, I usually prescribe a splint (night guard). For other patients, I first try behavioural modification through counselling to see if they stop grinding and clenching. That is the greatest advantage about this product you can use it over and over again at no extra cost to the patient.

Thank you very much for the interview.