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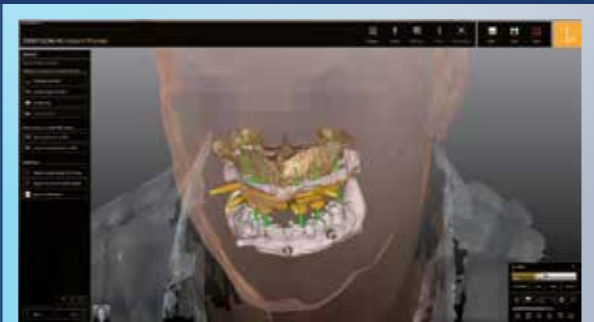
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- ▶ How to avoid expensive remakes in fixed prosthodontics
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Published by

The Dental Technician Limited,
PO Box 430, Leatherhead,
KT22 2HT.
T: 01372 897463

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WELCOME

to your magazine

SO WHERE HAS IDS TAKEN US?

So we have just had the enormous IDS in Cologne and as predicted many of the world leading manufacturers were showing their latest and greatest additions of materials and equipment. As I mentioned in my March comments a great deal of emphasis on the Digital developments and a greater look at Laser Sintering which may well be the biggest new move for many of you, particularly those of you currently struggling with the traditional techniques for partial metal design and manufacture. Many of you I know went to the IDS and undoubtedly saw too many things of interest.

The next move is of course to confirm your initial impression at the DTS coming up in May. In the mean time talking with the suppliers of your favourite items and to your technical colleagues will give you some informed questions to ask. Why not go on Dental Technicians UK Facebook page and pose your question. I am pretty sure you will not be the only one to have seen and be interested in your choice. It might just save a lot of legwork and perhaps has the potential of a better option for your needs. There is always someone who shares your interest and perhaps has gone further along the road of inquiry. It is freely available and the only thing it will cost you is a little of your time.

Inevitably the companies will introduce their idea of improvements of both materials and

equipment and it is always good to see them along side other peoples idea of the ideal, so perhaps wait until the DTS Show in May. Now the biggest and most important of the trade shows in the UK. It not only features the latest for the laboratory it includes the BDA Congress and complimentary trade show. Where you can see digital in laboratory and in clinic and judge the companies who are representing digital technology as a clinical interest or a Dental interest. I say this as we are all aware of the danger of direct from chair side undermining our technical market. Some of the companies may believe a is where the restorative market is going but I would say that's a nonsense. I think the chair side access will increase the amount of work and the very poorly trained clinicians will get themselves in really deep water. Many of you may have seen some examples and will already know that the need for trained technical input and experience remains essential, and is likely to be more needed.

Can I beg all of you who read this to let me know of any study clubs you attend on a regular basis. I am determined to run a page for clubs around the country with dates and times and where applicable speakers and subjects. I fully appreciate some of you may be attending mixed meetings such as the ADI or indeed ITI meetings but I do think we should be supporting the publicity and the follow up of reports for all the readership. It can only improve the local awareness of all dental personnel who are welcome. These evenings provide useful and required CPD as well as an opportunity to discuss local and national

problems and the dental subjects, which the speakers bring. It is a proven way of growing your knowledge and interest with the potential for improving your business. So please let me know of any study clubs that meet on a regular basis.

From this issue onwards we intend to devote a page to the Dental Technicians UK Facebook group. Check it out and if you are a member get involved. I do think it will be a long lasting, mutually beneficial connection. We hopefully will be able to share interesting examples of work and get involved in answering queries or indeed just interacting.

We all share a common interest in benefitting the laboratory world and those working in it. Our dental world is changing in method and approach but the truth is you need to know a bit more than a computer programme to make a crown look like a patients tooth and that need will begin to shine out once the mediocrity of what is done chair side becomes widespread.

Technicians' input will begin to be a subject of discussion for those who want to save money but without organising a true alternative. For technicians you need to be better at what you do and brag about it as well as charging what you are worth. I will try to keep you up to date within the pages of the Dental Technician, but would appreciate your feedback and information.
Larry Browne
Editor



IN MEMORIAM NEIL CLARK 1963-2019

On the morning of Friday 15th March, I woke to a phone call from Chris Brown, Managing Director of GC UK with the terrible news that Neil had lost his battle with cancer. I have worked closely with Neil for the last 15 years. He was not only an amazing work colleague but was also a valued and treasured close friend.

I want to convey to Neil's family and friends how much Neil was held in high esteem in our industry, both at his time with Bracon Dental and at GC as the Laboratory Manager for the UK and South Africa. So many technicians have spoken to me and all say that Neil was a genuine, hardworking, family man who never said a bad word about anyone. He would always do all he could to help you. He touched the lives of so many and everyone you speak to is devastated - he will be greatly missed.

He leaves behind his lovely wife Ang, Hayley, Abigail and Darryl, their three children who he adored - whenever we were travelling together, he constantly talked about how proud he was of each one of their achievements. Neil was a Scoutmaster until his diagnosis in December 2017, a job he really enjoyed and took pride in, seeing the children build in confidence. Neil was a lifelong Arsenal fan and loved cars and motor racing.

Up until 2 weeks before his sudden death we thought he was winning his fight against this awful disease. He faced his battle with a positive mental attitude, never complaining and his bravery was humbling. Personally, I have many fantastic memories; we ran the London 10K for Crohns and Colitis UK, enjoyed a brilliant day at Goodwood Festival of Speed and raced Porsche's on a track day in January this year which I know he loved. We also travelled many times for GC to the office in

Leuven, Belgium and South Africa. I know I am speaking for all Dental Technicians and the Dental Industry when I say that Neil has left a massive hole in our lives and he will never be forgotten.
Mark Bladen

Neil and Mark spent a lot of time together as members of professional and industry groups, organising technical courses and trade exhibitions. However and more importantly they were great friends, so I understand the reflective sadness in which this article has been written, may I also say that this sorrow is felt by many of Neil's friends and colleagues, our condolences go out to his family.
Chris Brown, MD GC UK

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METAL CASTING IS CHANGING FROM CONVENTIONAL TO DIGITAL

By Thomas Fries

We can undoubtedly assume that the digitisation of dentistry will continue to advance. CAD/CAM technologies are increasingly dominating fields, which have so far been widely characterised by conventional techniques. After the established digital planning of crowns and bridges as well as implant-supported restorations, the care of partially edentulous jaws with prosthetic products has taken centre stage of this area of care.

With the now available updated version of the inLab 18 Partial Framework module, which is offered by Dentsply Sirona as an option to users of the inLab software, the software gives the dental laboratory the possibility of transferring traditional partial prostheses production to digital and thus drawing on the associated efficiency benefits. This makes it possible for the dental laboratory to achieve slight cost advantages, but in particular new degrees of freedom. In addition, the laboratory can take the next step toward "a fully digital" future.

INITIAL SITUATION

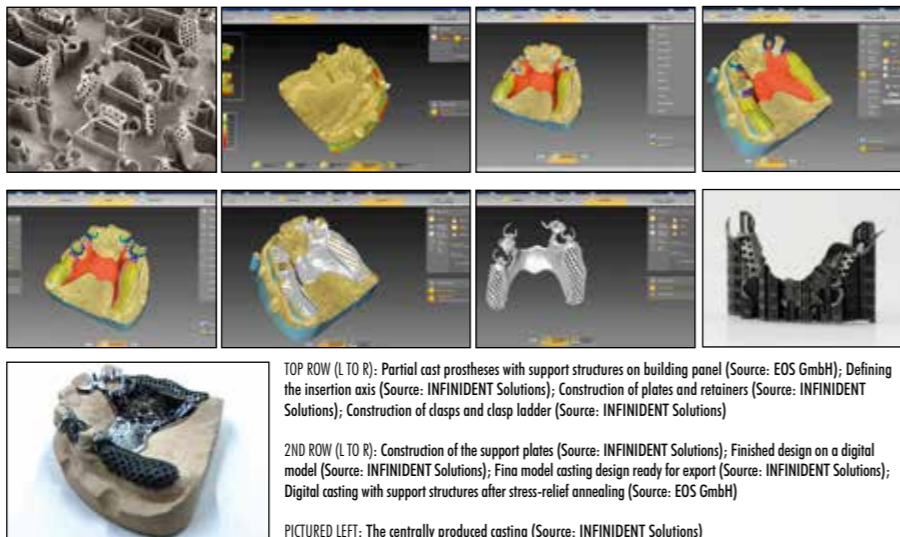
No matter if it is classic or trendy, analogue or digital: The standard basis for casting remains the master model, which is preceded by the impression of the patient's dentition and to which the counter bite belongs in the articulator. In the example for the patient, an irregular dentition in the upper jaw was chosen with teeth 16-17, 14, 22, 24-27 to be replaced.

CONVENTIONAL CASTING

With analogue casting, first the working model is surveyed with the Parallelometer. All the constructional features are recorded in the process. The source model is then duplicated and an investment compound model is manufactured. The technician adapts clasps and retainers on the duplicate model with all connecting and construction features made of wax. The sprues and sprue former are applied and everything is embedded. Casting, deflasking, finishing and polishing follow – after which the dentist examines the framework with a try-in fitting for the patient in his surgery. If everything is in order it continues: The dental technician completes the framework with prosthetic teeth and plastic and finalises the prosthesis.

3D PARTIALS CASTING: OLD WINE IN NEW BOTTLES?

When it comes to digital casting, the inLab 18 Partial Framework module is a leader due to the construction process of the casting work. First,



TOP ROW (L TO R): Partial cast prostheses with support structures on building panel (Source: EOS GmbH); Defining the insertion axis (Source: INFINIDENT Solutions); Construction of plates and retainers (Source: INFINIDENT Solutions); Construction of clasps and clasp ladder (Source: INFINIDENT Solutions)

2ND ROW (L TO R): Construction of the support plates (Source: INFINIDENT Solutions); Finished design on a digital model (Source: INFINIDENT Solutions); Final model casting design ready for export (Source: INFINIDENT Solutions); Digital casting with support structures after stress-relief annealing (Source: EOS GmbH)

PICTURED LEFT: The centrally produced casting (Source: INFINIDENT Solutions)

the master model is digitised with a suitable laboratory scanner and prepared using the CAD software. Measuring and aligning the model take place in the software (Fig. 2). The insertion axis is also defined in the software. Existing undercuts are blocked automatically in accordance with the insertion axis. Relevant retentive areas can be re-worked directly in the software.

During the subsequent construction, any order of the design steps (Fig. 3 to 5) can be selected. The well-known base designs, free end saddles, retainer plates, clasps etc. are available elements. A palatal plate mould or sublingual bar is outlined by pre-set and adjustable parameters. Note that minimum strengths are complied with for the clasps and plates and that all elements sufficiently overlap.

The working procedure strongly imitates the manual way and provides a trained casting technician with fast and intuitive access to digital production. However, the new module also allows an inexperienced dental technician fast access to digital prosthesis manufacturing and thereby extends their range of services.

With a little practice, however, the casting software clearly enables more comprehensive possibilities for the production of restorations, which goes beyond pure partial prostheses in the upper and lower jaw. For example, retention grids for total prostheses (edentulous jaws), tertiary construction for the adhesion of secondary parts (partially edentulous jaws) or bar attachments as a retaining element with implant-supported bars can also be easily implemented.

DIGITALLY CONSTRUCTED - NOW WHAT? For the production of digitally designed partial prostheses, the technician now has different

options: production by milling, wax printing (CAD/CAST) or via the direct route of 3D printing with laser sintering. While milling is represented directly in a metal alloy as a function of possibly quite expensive material and tool use, prostheses produced in CAD/CAST by an experienced dental technician can often be waxed, embedded and poured faster manually. So after the digital design, this route ultimately can lead back to a conventional casting workflow with all its disadvantages.

In the following, the case was implemented as INDIVIDUAL PF via the industry-independent digital milling contractor INFINIDENT Solutions.

SLM MODEL CASTING – THE MANUFACTURING PROCESS

Partial prostheses are manufactured with a laser sintering process. This also offers the advantage over conventional casting, wax printing or milling, as the manufacturing process allows for a high degree of geometrical freedom for the design. The necessary material properties, e.g. spring elasticity, are ensured by a well thought out and extensive post-treatment process.

The records are sent via the web portal to INFINIDENT (either in the Dentsply Sirona format *.pf or the open *.stl). There the delivered construction data are first examined and processed. Up to 30 model casting restorations can be fabricated on a so-called "mid-frame" laser sintering system (EOS M270, construction platform 250 x 250 mm) in an average 15 hour construction process. The virtual positioning of the components during data preparation is essential for the final fit of the parts. Experience is required for the virtual setting of support structures on the components, which serve to avoid distortion on the basal as well as oral side

of the base, in order to guarantee an optimal fit of the laser sintered castings. The subsequent necessary stress annealing of the components, as well as the thermal post-treatment to obtain ductility (spring elasticity) of the clasps, are also crucial for the later fit.

Last but not least, the prostheses are released from the support elements (sprues), glass-beaded and sent to the dental laboratory. Thus, the finished products arrive at the laboratory nearly ready, and need only be released from the stabilisation elements, fitted and high-gloss polished.

After a successful fitting, the finishing as usual, can begin. What advantages does the laboratory have with digital "casting"?

The digital production technique adds a new dimension to value creation in the dental laboratory. With a little practice, efficient design can be done in approx. 15 minutes.

Nowadays, going the digital production route, which is material saving and economical (e.g. no more need for a duplicate model, no inefficient waiting periods, no storage etc.), means optimised restorations can be ensured. There are no more over-modelled structures, which cost the laboratory a great deal in time and money due to waxing and grinding. However, it is much more important that resources in the laboratory can be aligned more meaningfully to other value-creating activities owing to the time saved in scanning and designing as well as the outsourced production of the restoration. Thus, a reorganisation can clearly increase the throughput in the laboratory, which in the end can lead to higher turnover and increased profitability.

AND FROM A SCIENTIFIC POINT OF VIEW?

A study at the Dental Prosthetics Polyclinic at the University of Munich Medical Centre under the authority of a study¹ conducted by EOS GmbH in 2018 on the mechanical properties of the clasps of laser-sintered vs. analogue produced casting showed significant advantages in terms of constant stable removal forces (no loss in stable retention), survival rate (>93% survival rate in 60-year simulation) as against >43% survival rate in the CASTING Group) and homogeneity of microstructure quality in favour of additive production.

ABOUT INFINIDENT SOLUTIONS

• With more than ten years of experience in the field of laser-sintered technology, INFINIDENT Solutions is one of the pioneers in the field of additive production of dental prostheses.

For more than three years, digital casting (INDIVIDUAL PF) has been an integral part of the service portfolio and is experiencing ever-growing demand. After submission of the design and the internal data check, the laboratory can expect,

In particular, the danger of large-volume blowholes, which unfortunately remains constant during casting, can be largely negligible in the laser sintering process due to the homogeneous microstructural properties. Although the number of cavities detected in the additive process is higher, these are purely superficial micropores, which involves a rougher surface.

ADVANTAGES:

Purely digital manufacturing model casting (laser sintering process):

- Lower number of work steps and thus an increase in productivity
- Reduction of error sources and casting risks (low risk of blowholes)
- Largely homogeneous microstructural properties guaranteed
- Constant retention forces as well as increased ductility of the clasps
- High degree of design freedom and simple correction options
- Reproducibility

ADVANTAGES:

Conventional production casting (analogue casting procedure):

- Time advantage due to in-house production
- Familiar analogue manufacturing process
- Lower material costs per unit

CLINICAL ADVANTAGES

If the dentist takes up the opportunities offered by digital impression-taking and the free connection of the dental laboratory and dentist, via the dental networks established for different CAD applications (for example Dentsply Sirona Connect), savings are not just made on producing plaster models, but also the collection time. A further advantage of working digitally is that corrections are made with a few clicks and the work can even be accessed years later for the production of a replacement prosthesis.

In this way, digital casting has come to dental technology and will continue to be further implemented.

REFERENCE

¹ Schweiger J., Erdelt, K., Güth, JF: In-vitro study into the mechanical quality of cast and laser-sintered clasps for model cast prostheses, Arbeitsbericht, Polyclinic for Dental Prosthetics at the University of Munich, 2018

according to the supplier, a return of the finished work piece prepared for final processing within just three business days.

For the laboratory, all that remains is the finalisation of the prosthesis. Newcomers can get an overview of the topic of digital model casting production in specially designed online courses.

For more information, please refer to: infinidentsolutions.com



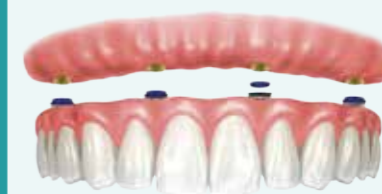
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MARKETING SIMPLIFIED JAN CLARKE BDS FDSRCPs

• Jan qualified as a dentist in 1988 and worked in the hospital service and then general practice. She was a practice owner for 17 years and worked as an Advisor with Denplan. Jan now works helping dental businesses with their marketing and business strategy and heads up the Social Media Academy at Rose & Co.
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THE COMPETITION

Do you keep a track on what your competitors are up to? Perhaps you even obsess over it? Yes? If you do, you are definitely not on your own, it is a huge problem, but why?

Having a grip on the trends in your market is good but being overly obsessed with your competitor's activity is both unhealthy and counter productive.

The same can be said for staying stagnant and "always doing the same safe thing".

MARKETING TRENDS

In marketing there will be trends and particularly in your market place you will see dental laboratories all doing the same type of activity. In fact it's where one will receive inspiration and ideas from, seeing what others do. The problem comes, though, when you see what the competition do and just keep following and copying. I see it as fundamentally soul destroying as you'll never catch up, always be one step behind, this sends a message to your team, if not to all your customers too that perhaps doesn't imbibe one with confidence.

HOW DO I CHANGE THIS?

Some of the larger laboratories may well have their own marketing department and budgets that far outreach yours so is it possible to ever be ahead of the game with these larger competitors? Probably not if you're going to try and play the same game, what is required is a game change!

GAME CHANGER

I think we can agree, with their larger budgets and marketing departments, you cannot compete with these larger companies but do you really need to, to keep ahead of the game? Let's consider an alternative approach, to be yourself and disrupt the market. Only you can be you!

I am reading a book at the moment which is aimed at the creative industries but is relevant to all, "Feck Perfunction: Dangerous Ideas on the Business of Life" a great quote in the book is "What's stopping you from achieving your goals is not lack of knowledge or talent and certainly not other people; it's your own fear" "the fear of expressing who you are – lest someone actually sees you. Our instinctual fears are a healthy mechanism, keeping us safe; but professionally, FEAR = STOP!"

We don't like to stand out from the crowd and so it is easier to follow what everyone else is doing, these tried and tested, sanitised systems. But what if we step out from those constraints and try something different, put our head above the parapet?

WHAT'S YOUR "PURPLE COW"?

Seth Godin, who is a world famous marketer and one I would recommend following for his superb blog, has also written several books, one being "Purple Cow: Transform Your Business by Being Remarkable". If you haven't read it I would recommend buying this, it is a quick read, a very short book, but wholly transformative when it comes to marketing your business.

Last month I wrote about being the best you can be in your business and to STOP MARKETING. Whilst I didn't advise you stop marketing altogether it was more about the way you do your marketing. I mentioned, again, that marketing is everything you do.

Being remarkable doesn't necessarily cost much nor does it need a large budget but it does need focus on your team, systems and procedures to ensure you are producing and delivering the best service you can.

Being remarkable and understanding what your "Purple Cow" is, allows you to be different, stand out from the crowd and disrupts the marketplace.

I personally feel smaller businesses have an advantage over larger ones in that they can control their systems, services and customer service much easier than larger companies. They can be remarkable and stand out from the crowd. You will need to put the fear aside and not follow the crowd. Be certain about who you are, what your business is about, your "Why?" Once certain about this everything else will follow, there is no need to check in with the competition and follow what they do obsessively, indeed you will become the business that others follow and look to.

THE PLAN

- Know and understand your "Why?"
- Communicate this to your team.
- Decide as a team the areas that require more work.
- Do listen to your team and disrupt the status quo, allow things to be carried out differently.
- Encourage those team members that do not embrace change and help by showing good leadership skills to help them change.
- Agree what your "Purple Cow" is and start to be remarkable.

"Being Remarkable" is a great marketing tactic and once you understand how you can be remarkable, marketing your business will become easier.

I would encourage you all to be yourself, let others see who you are, face the fear and be different, don't follow the crowd. Be so remarkable that the crowd follows you! All the best.

As ever I am here to help with any of these issues so do email or connect online with me, I look forward to meeting some of you in cyberspace!

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THE FUTURE IS BRIGHT

THE STORY BEHIND MEDIT SCANNERS



Medit at IDS Cologne 2019

Medit is a family owned company based in Seoul, South Korea. Founded in 2000 by two brothers **Professor's Minho Chang PhD** and **Professor Jinho Chang PhD** as Solutionix, an industrial digital scanner company.

Medit was later established in 2010 as the dental solutions arm of the company and the first bench top laboratory scanner the 'SE' was developed. The company is focused mainly on research and development of digital technology with one of the largest 'research and development' teams in the World. The following years saw the release of ever more advanced scanner models, the introduction of blue light scanning, culminating in what is generally considered the best table top scanner available today the T500 which combines speed, accuracy and ease of use with Medit's core value of affordability. The company has grown significantly over the past ten years and the launch of the first intra-oral scanner the i500 in 2018 saw the first move into the clinical market. One of the big stars of IDS 2019, the i500 has established itself quickly as one of the best selling intra oral scanners by combining the advanced Medit technology with the core values of ease of use an affordability. Unique twin camera technology makes it very accurate and offers very high precision, with speed of scanning comparable to the best of the competition. The unit is light and easy to clean with autoclavable tips which can be re-used many times. The software Medit Link which come free with the scanner and is 100% open allows the clinic to use the scan data or send it on to a laboratory for manufacture of appliances. Laboratories can



See Touch and Play with Medit

download the Medit Link software free of charge to interact with the clinic. Medit do not charge licence fees and all software updates are free to existing customers.

The company also focuses heavily on support, both to its sales partners and the end users. European Sales Director **Laurence Grice-Roberts MBE** explains from the Medit offices in Bristol:

'Medit has never spent big on formal advertising, mainly because in the early days we didn't have the money to do it. So, we relied on word of mouth from happy customers, from friend to friend and in the social media arenas. As a result, we try very hard to keep our partners and customers happy with great service and support so they will

spread the word that these are great machines and as a result we have developed strong and lasting friendships with many of them.'

Medit has now established support centres in Korea, The USA, The UK, Greece and China and can tackle any issues as they come up 24/7.

WHAT DOES THE FUTURE HOLD?

The company is expanding quickly and moving into a new bigger building soon. The development of the next generation of scanners is ongoing for both the laboratory and clinical markets and new areas of research are being investigated where digital technology can be used to make life easier or better or both. The future is very definitely bright for Medit.

bredent group

European Prosthetic Roadshow

Beauty & Bionics

Concepts. Materials. Success.

Join 8 international speakers and the bredent UK team in London this May...



MOHIT SURYAVANSHI - INDIA



ARTURO OLIVARES - MEXICO



MASAICHI TSUCHIYA - JAPAN



DANESH VAZIFDAR - INDIA



RICHARD ELLIOTT - ENGLAND



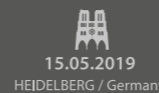
SASA BULIC - SERBIA



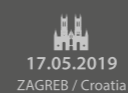
NIKOS MOUZIS - GREECE



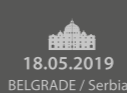
VASILE BACILA - ROMANIA



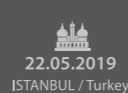
15.05.2019
HEIDELBERG / Germany



17.05.2019
ZAGREB / Croatia



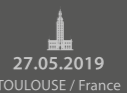
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ISTANBUL / Turkey



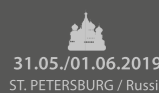
24.05.2019
MADRID / Spain



27.05.2019
TOULOUSE / France



29.05.2019
LONDON / England



31.05./01.06.2019
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HIS MASTERS VOICE...

WHEN THERE'S AN IMPLANT 'GURU' IN TOWN IT CANNOT BE MISSED AND THE TURNOUT TO **LARRY BROWNE'S TALK 'WORKING WITH IMPLANTS'** IS PROOF OF THIS...

THERE'S MORE TO THIS...



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17TH & 18TH MAY 2019

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DENTAL TECHNOLOGY SHOWCASE
17th & 18th May 2019,
NEC Birmingham
www.the-dts.co.uk

Health Education England North West had kindly invited Larry to present on Thursday 28th February at the Whiston Education Training & Conference Centre and it proved to be a very entertaining evening.

Larry, who has a firmly held belief in life-long learning has worked in implant dentistry for over 50 years and always loves to pass on his experience and knowledge and he certainly didn't disappoint.

Dental implants are no longer the preserve of just the wealthy and they have a growing place in day-to-day dentistry and Larry presented several cases examples that demonstrated the good, the bad and very ugly side of implant dentistry. He then went on to discuss how things should be done!

Having worked in many multidisciplinary teams over the years, Larry has an extensive understanding of how to achieve the best clinic outcomes and he explained in detail the stages from planning to completed case using a series of easy to understand scenarios that gave the audience a real grasp of how to achieve the best results without wasting time or money.

Digital technology is now advancing rapidly into every aspect of dentistry including the provision of dental implants. Larry took the audience on an in-depth journey through the technology available and how this can aid many aspects from planning and stent



CLOCKWISE FROM TOP LEFT: **Pauline Jones** introduces the speaker; **Larry** begins with the basics.; **Pippa Bayliss** Straumann Laboratory Territory Manager; Taking note of vital structures

production to digital design and manufacture of simple and complex structures.

Attendees were delighted to have a better understanding of this complex subject and felt more confident to discuss implant related work with technical and clinical colleagues.

The event was supported by **Pippa Bayliss**, Straumann Laboratory

Territory Manager who showcased the Straumann® CARES® Digital Solutions offering a complete dental solution, from digital impression-taking using intra-oral scanning to the computerized production of prosthetics using state-of-the-art CAM processing. Each individual step seamlessly interlocks with the next and is designed to deliver a high quality digital workflow.

NEXT EVENT – ONLY £10!

- These events are organised on a regular basis by **HEENW** and the next evening lecture **'Teeth and Gums – Fixed and Removable'** will be presented by **John Wibberley** on 9TH May 2019 at Aintree Hospital Clinical Sciences Centre. Delegates can register by visiting www.maxcourse.co.uk/henw and paying the £10 fee which includes refreshments and 2 hours ECPD. If you have a question, about these events contact **Pauline Jones**, DCP Champion on **07986 065 158**.



In partnership with:



THE DENTAL TECHNICIAN MARKETPLACE

PRETTAU® 2 ZIRCONIA HIGHLY TRANSLUCENT ZIRCONIA WITH AN EXCELLENT FLEXURAL STRENGTH

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Prettau® 2 is available also in a polychromatic version, Prettau® 2 Dispersive®. Prettau® 2 Dispersive® is provided with a smooth natural colour transition already during the manufacturing process. This is performed through a special technique that does not blend colours into layers but disperses them evenly, resulting in a merging natural colour transition after sintering. If



Prettau® 2 Dispersive® zirconia restoration with monolithic design (13-23)

desired, the dental technician can further individualise the structures manually.

Properties at a glance:

- Particularly highly translucent zirconia with an excellent flexural strength
- No limitations! Especially suitable for full arch restorations (fully anatomical or reduced with ceramics), but also for single crowns, inlays, onlays, veneers, bars and multi-unit bridges
- Can be characterised individually for each

patient with Colour Liquids Prettau® 2 Aquarell, ICE Zirkon Ceramics and ICE Zirkon 3D Stains by Enrico Steger

- No ceramic chipping (thanks to the fully anatomical design)
- No abrasion to the antagonist
- Available also in a polychromatic version, Prettau® 2 Dispersive®, characterised by a smooth natural colour transition

For more information www.zirkonzahn.com

SHOFU: DURABLE AND COLOUR-STABLE HYBRID CERAMICS IN TWO LAYERS AND THREE TYPES

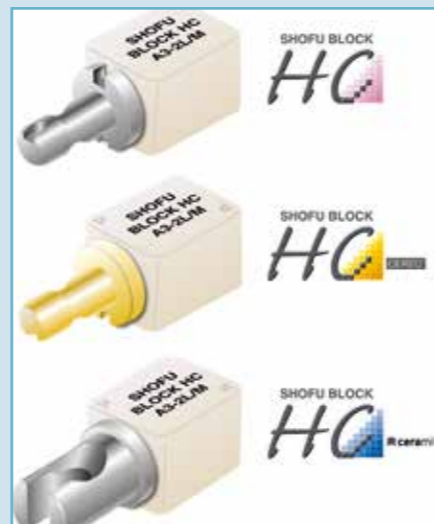
► Whether aesthetic anterior restorations or inlays, onlays and posterior crowns with high colour and surface stability: Shofu Block HC can be used for almost all indications for modern CAD/CAM technology and machined wet or dry in all standard milling units. Shofu has added two-layer blanks to its line of hybrid ceramics and fitted blocks with universal holding pins. So Shofu Block HC, a high-performance CAD/CAM material, is now available in three types (Universal, Cerec and Ceramill) and as one and two-layer blocks. Users may choose from various high and low-translucency shades and two enamel shades, designed to reliably meet every need in the field of all-ceramic restorations.

The excellent physical properties of Shofu Block HC allow to make crowns and implant-supported

restorations characterised by great durability and absorption of occlusal forces. Moreover, highly aesthetic restorations can be created thanks to enamel-like light transmission and the addition of two-layer blocks featuring a smooth, natural shade transition from dentin to enamel.

In combination with the HC Primer, which ensures very high bond strengths thanks to its unique infiltration effect, and SHOFU's gentle polishing and luting systems, a CAD/CAM restoration system with perfectly matched components is provided – for all modern milling units, aesthetic requirements and clinical indications.

For further information please contact Shofu UK on 01732 783 580 or email: sales@shofu.co.uk



BRENT: EUROPEAN PROSTHETIC ROADSHOW COMES TO LONDON

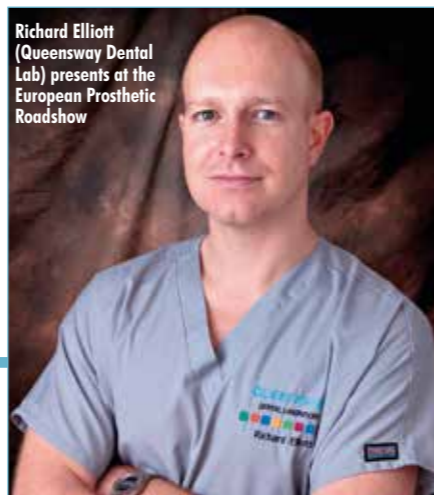
► Join bredent on a tour of Europe with an international team of renowned dental speakers. The lectures focus on the wide variety of prosthetic possibilities available through bredent's systems and materials.

The speakers have one thing in common: a skilful combination of physiological framework and veneering materials, clear

treatment planning for predictable results and appropriate use of digital techniques.

This tour is opportunity to learn from international patient cases, each solved using innovative, tested techniques.

Date: 29 May in London
Visit: www.bredent.co.uk/Roadshow



Richard Elliott (Queensway Dental Lab) presents at the European Prosthetic Roadshow

3SHAPE: UNLEASH YOUR LAB'S POTENTIAL WITH 3SHAPE DENTAL SYSTEM 2019

► 3Shape's new version of Dental System 2019 provides labs with significantly improved solutions for dentures, splints and clear aligners as well as, predictable workflows for a complete range of restorative indications from veneers to implants.

Dental System 2019 has also added several new features including it now



being up to 10 times faster when starting new cases; re-opening previously designed cases, and the import/export of material settings. You can now also let Dental System automatically create your design proposals for single crowns and copings for your gypsum cases.

Then use its powerful tools to inspect and correct the design during any step in your workflow, if needed.

Find out more at www.3shape.com/lab or contact ukenquiries@3shape.com

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► PumiceSafe Universal Cleaner is a multi purpose, alcohol free, ready to use solution that neutralises unpleasant smells from your Pumice tray.

Designed with the technician in mind, PumiceSafe is Aldehyde and Phenol free, kind to your skin and has a fresh mint fragrance. It can be used in the pumice tray to produce a micro-organism free slurry, it can also be used as a bench surface cleaner plus it is ideal for pre-soaking lathe brushes to reduce the risk of burning acrylic dentures during polishing.

Alcohol free with a glycerine and emollient

content it will not irritate a technicians hands.

PumiceSafe Universal Cleaner will save you time plus keep your laboratory clean and fresh with minimal effort.

Kemdent's Spring offer will save you time and money, buy 1 x 5L PumiceSafe Universal Cleaner and receive 1 x 500ml PumiceSafe 500ml free. Offer Price: £25.25 + VAT RRP: £31.30 + VAT.

Call Kemdent on 01793 770256 to get this great offer or visit www.kemdent.co.uk to see what other fantastic offers are available.



CANDULOR AG: THE NEW STAY YOUNG COLLECTION

● ZURICH, 12TH MARCH 2019: CANDULOR AG launches the new tooth lines PhysioSelect TCR & BonSelect TCR. Young shapes for a new patient and customer generation. The development and manufacture of artificial teeth has been at the core of CANDULOR for over 80 years. The Swiss company attaches great importance to development feedback from both an internal and external perspective. A vibrant collection was created especially for the new generation of "Best Ager", to match their self-confidence and agile aspirations.

"Dental technicians, dentists and prosthodontists have motivated us to develop a new tooth line - consisting of proven materials and molds - for the patients of the coming decade and to inspire customers and patients alike."
Claudia Schenkel-Thiel (Managing Director)

A piece of Switzerland, also in terms of design

A rejuvenated design was developed from proven, attractive molds to create 18 maxillary molds - delicate, prominent and universal - and 4 mandibular molds. Layering and surface structure support the young appearance and are a reflection of the patients' attitude to life in our times.

"The objective is to meet contemporary customer and patient expectations. We are very grateful for the feedback from the dentists, dental technicians and prosthodontists involved in this



tooth development." Jody Paul Spalt (Head of Product Management)

BONSELECT TCR

One for all, all for one. Be it for tooth-to-tooth or tooth-to-two-tooth placement, the BonSelect TCR posterior tooth was endowed with a bifunctional, semi-anatomic occlusal surface. It can therefore be easily integrated into existing laboratory workflows, particularly when different set-up methods and occlusion concepts need to be implemented. One for all, all for one is possible in 4 sizes with the BonSelect TCR.

The red one from CANDULOR

The tooth rack which is optimized for the dental storage in the laboratory is a mirror image of the entire brand appearance. The "Red" represents the Swiss flag in the tooth cabinet, which presents the new anterior and posterior teeth harmoniously in both mold and shade.

"CANDULOR supplies its customers all over the world with high-quality, durable and esthetic, natural-looking products. When it comes to tooth

selection in the tooth cabinet, quick orientation is essential. We are Swiss, and proud of it, and this should be reflected by the PhysioSelect TCR and BonSelect TCR. Their red beats the usual black and gray." Alexander Ewert (Marketing Director)

Made of durable tooth materials

Adaptation to the alveolar ridge, to abutments and antagonists requires tooth materials that can be processed quickly. But also materials that reliably bond chemically to the base resin, and which are plaque resistant and abrasion resistant.

The new PhysioSelect anterior and BonSelect posterior teeth are therefore made of the re-sistant TwinCrossedResin, the 3rd generation TCR material, a modified polymethyl methacrylate (PMMA) variant. The polymer, but also the matrix, are evenly cross-linked and additionally tempered. This means that the pre-crosslinked polymer is again linked to the matrix and condensed during production. This way the tooth material meets the high requirements for plaque and abrasion resistance. The new PhysioSelect TCR anterior tooth will be available for trial purposes as from April 2019 together with the BonSelect TCR posterior tooth.

More information at candulor.com or live at the IDS. CANDULOR AG, Boulevard Lilienthal 8, CH-8152 Glattpark (Opfikon)
Tel: +41 (0)44 805 90 00 Fax: +41 (0)44 805 90 90 Web: www.candulor.com / candulor@candulor.ch

STANDING ROOM ONLY!

Yorkshire Dental Study Group

Setting up a Study Group based in Yorkshire was something that **Prestige Dental** had long been keen to do. Canvassing laboratory colleagues last year, drew high initial interest and ensured that the initiative went ahead with the formation of the **Yorkshire Dental Study Group**. The group got off to a flying start with **Richard Egan** presenting the very first event in November 2018, where 24 delegates enjoyed a presentation and practical covering dental photography.

Fast forward to the next event at the end of February and YDSG were delighted to play host to the straight-talking **Chris Wibberley** sharing his passion and expertise about creating natural dentures. However, this second event was so popular, a waiting list had to be established and we were asked to take extra people who volunteered to stand for the whole of the evening. On the night, extra chairs were begged and borrowed to successfully squeeze 50 delegates into the conference facilities for a fascinating lecture and demonstration.

Chris Wibberley takes up the story: *"Prestige have definitely launched a worthwhile study group in an area surrounded by great laboratories and enthusiastic technicians. The venue is ideal, and even for such a large group as the one on Feb 28 the room was a comfortable size, the event was well catered for and the staff were extremely helpful. The audience made the evening what it was. They were very responsive and engaging throughout the lecture and demonstration. They asked insightful questions and showed genuine interest in the subject of the evening, denture characterisation. I will definitely be paying another visit to the YDSG both as a lecturer (if they'll have me again) and as a delegate."*

Praise indeed! The team behind YDSG work tirelessly to make each individual event a success. From Lucy's supper - famously chilli and (always too much) rice - to the short and informal evening format. The generosity of our speakers and Prestige Dental ensures a very low delegate fee making attendance attainable for all, whilst each event qualifies for CPD and any surplus from the events is pledged to charity.

So, what's coming up next? On Thursday 23 May 2019, 6-9pm, **Ashley Byrne** will be looking at both the science and art of



running a modern dental lab whatever the size. This promises to be a fascinating insight into avoiding stereo typical pitfalls such as long hours and poor pay, covering many aspects from customer service and employee engagement through to digital dentistry.

For further details/to secure a place email: info@ydsd.org.uk **Prestige Dental, 7 Oxford Place, Bradford, West Yorkshire BD3 0EF** Tel: 01274 721567

CLOCKWISE FROM TOP LEFT: Ready for the evening (L to R) Chris Wibberley, Paul Martin and Lucy Gabbitas; Welcome and lecture; Lucy's supper!, Chris Wibberley demo and discussions

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Implant and CAD/CAM experience would be advantageous.

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DENTAL TECHNICIANS GREAT BRITAIN AND THE DENTAL TECHNICIAN MAGAZINE

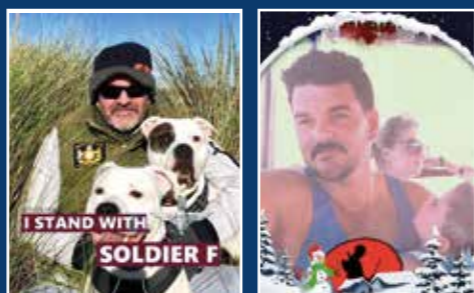


These are your pages for comment, questions, case pictures, and anything you want to share with your fellow technicians.

-  **Paul Philip Anche** Great Idea. A more Documented forum for information and intellectual ideas.
-  **Iain Muir-Nelson** Great effort. **Congrats** looking forward to see what develops.
-  **Keith Davey** Great news. Well done **Lord-Alan Stephen Wright** and all involved. 🙌
-  **Roy Davies Cdt** Sounds exciting **Alan** Looking forward to the expansion of an amazing group 🙌🙌🙌





ALAN STEPHEN WRIGHT

Alan Stephen Wright is one of the people most responsible for the Facebook page for UK Dental Technicians. A great enthusiast for improving the lot of his fellow DTs. It's always worth looking at his comments. His latest {March 2019} in support of Soldier F.




Following the success of the wonderful Facebook page, the *Dental Technician Magazine* is delighted to be involved in the future development and support. **Alan Stephen Wright** and his fellow group moderators have welcomed the joining of forces, which aims to increase the interaction for learning and exchange of knowledge on all things effecting the day to day lives of Dental Technicians and Clinical Dental Technicians. **There has already been some positive comments which have featured on the Facebook pages as shown right.**

The Facebook page is growing in popularity because it is relevant to the daily lives of those who have joined and can give an instant platform for comment and for queries. About work, work politics, or even about individual cases and examples of processes, which at this time are so subject to change and development. **Here are some examples of recent postings:**

-  **John Nicoll** Conversation starter · 20 February at 10:28
Are labs supposed to send back old impression trays..?
-  **Andrea Johnson** It is not wise to send back impression trays as they are not reusable (even metal ones apparently). So if the dentist insists I would suggest you charge for the privilege and do not clean them, just remove the main bulk and leave it at that so it is 100% clear they are not clean or reusable and include a statement highlighting this with each lot you return.
-  **David Smith** Custom trays (special trays) and trays designed to be cleaned and sterilised (metal) yes. Disposable or single use stock trays NO! If you attempt to 're-manufacture' (clean and prepare) them for use then you are responsible for the safety of the tray.
-  **Mick Fothergill** 26 February at 08:15
Anybody using MiYO stains from Jensen on full contour zirconia?
-  **Inayatullah Khan** I tried the MiYo Jensen stain and glaze kit a few days ago and it is amazing! I will post some pictures of the full kit.

-  **Petr Mysicka** 21 February at 08:52
MILLED WAX - JP VEST
Hi guys, need an advice please. I really like JP Vest for my pressing... But when I am using milled wax I have a lots of problems - cracks in the rings... I think it's due to expansion of the wax, I tried everything - low tempature (600C) start etc... but it always brake... Does anyone have any solution? Or is there better inv.material for milled wax? Thank you
-  **Keith Davey** Bellavest SH great with milled or regular wax. 4 patterns in 100g ring. 15 min set 35min at 850. Press in Dekema 654. Beautiful.
-  **Rick Tittle** Petr try going at 200c with slow (8 degree F)rate of climb to 500C hold 30 min. then 30 degrees per min to 850C hold 45min for 100gr 1hr for 200gr. Then press. Also check for cracks coming out of burnout before pressing.

CONTENT FOR PAST COURSES:



The Principles of Customising Teeth and Gums

Course: This 2 day training course is aimed at Dental Technicians and CDTs. It is hands on with many practical elements, including free patient demonstrations. All aspects are explained using photos and slides and will be run at a relaxed pace.

Learning Outcomes: The knowledge and techniques acquired on this course can be implemented straight into daily lab work. Delegates will learn how to characterise denture teeth and create life like dentures, that receive extremely natural looking.


Objectives:

- Increased knowledge and skill set in providing life-like denture aesthetics for patients.
- Understand natural teeth anatomy and characteristics of 'natural teeth'.
- Learn how to customise individual denture teeth.
- Learn how tooth position affects the denture.
- Understand the gingival architecture and how to transfer this knowledge into ageing pink composite.
- Use your own teeth in a patient's mouth.
- Learn how to produce a 'natural' and 'natural' perception and understand the differences between them.


Contacts:
DT Deputies - 01437 529641
adam@fordentures.co.uk

Date:
09: 10th November 2018
25th 24th November 2018

Cost:
- £500 per delegate.
- Option of £300 non-refundable deposit followed by 10 x £50 monthly payments (cost/last number provided for further)



John Wibberley RDT (Dip CDT)



Chaz Wibberley RDT (Dip CDT)

Venue:
Taylor Dental Technology Centre
Oxden Hill Lane
Layland
PR26 3NP

EXCITING TIMES AHEAD FOR THE DENTAL TECHNICIAN MAGAZINE, DENTAL TECHNICIANS GREAT BRITAIN FACEBOOK GROUP, DEN-TECH, VETERANS BITE BACK AND MYSELF ANDREA JOHNSON

Lets start with a little background. For those of you who do not know me I would like to introduce myself, I am a full time working dental technician/orthodontic & maxillofacial laboratory manager at Montagu hospital, I am a sessional lecturer at Nottingham College, I am the Chair of the orthodontic technicians association, the Chair and co founder of registered charity **Den-Tech**, and now, I am very proud to announce, a moderator for the **Dental Technicians Great Britain** Facebook group.

I have been a member of Dental Technicians Great Britain for quite some time and have always found the group, both its members and moderators, to be incredibly supportive towards any that need help and especially to

my charity Den-Tech. I have been regularly and literally bought to tears at the level of kindness, generosity and compassion of the members when it comes to Den-Tech.

In my role as moderator I am there to provide support and assistance to any that should need it on any dental technology issues but primarily on orthodontics as this is my main area of specialist knowledge. I, alongside my fellow moderators, help to keep the group running smoothly and to make sure that all within the group stick to its rules, principles and ideals.

We are there as a team to help and guide each other, to be a support network, a shoulder when needed and a blumming good laugh too. A sense of humour certainly helps in our trade.

I do feel this is a particularly good point to single out one particular person in all this and it is **Alan Wright**, the founder of Dental technicians Great Britain. Alan has wholeheartedly embraced Den-Tech as a charity and has put an incredible amount of effort into supporting us through raising awareness of what we do and directing people to us who wish to donate equipment or supplies.

His passion for the dental industry and his generosity as a person has led him to partner his Facebook group with the *Dental technician magazine*.



► continued from page 23

The *Dental Technician magazine* has been around for a very long time and our industry would not be the same without it keeping us all up to date with the latest news, products, regulation and opinions of the industry.

The *Dental Technician magazine* too has always been incredibly supportive of Den-Tech and has happily and eagerly published and promoted our work whenever possible.

So imagine my utter delight and surprise when I was told not only that these two were planning on merging to create a brilliant platform for all dental technicians but that they were going to make sure that this was run in such a way that some of the profits generated from this union were going to be ring-fenced for my charity Den-Tech and another good cause that Den-Tech is working with and supporting which is also close to Alan's heart, the Veterans Bite Back campaign.

DEN-TECH is a charity set up by **Andrea** and fellow technician **Andrew Sinclair** who after visiting Uganda with another dental charity realised that there was a great need for quality dental technology services in the country and other developing countries like it.

'The objects of this Charitable Incorporated Organisation (CIO) is to relieve poverty by the provision of affordable dental appliances to those patients who are in need and unable to afford such items and in furtherance of this, to provide training, mentoring and education for dental technicians in developing countries to enable them to supply appropriate quality dental appliances'

There are many charities which provide the incredibly valuable service of 'dental pain clinics' but no real provision for the restoration of the dentition thereafter. This can leave patients with large gaps where teeth have been extracted meaning that they can quite often struggle to eat and chew their food well, to speak properly and to look and feel normal.

They set up their charity called Den-Tech in 2017 and have enlisted a board of trustees who are equally as passionate about using their skills and resources to help those less fortunate.

This drive and enthusiasm has now extended to helping those less fortunate in the UK, the homeless. As many as 98 to 99% of people experiencing homelessness have evidence of active decay, almost three-fold that of the general population and some 70% have lost teeth since becoming homeless (ADHS, 2009; Simons et al., 2012; Freeman et al., 2012; Groundswell, 2017) and 15% of people experiencing homelessness have attempted to extract their own teeth because of dental pain and that almost a third have accessed A&E for their dental problems.

In 2017 Den-Tech set up its first ever 'field laboratory' in a school classroom in North London as part of the **Crisis@Christmas**

Den-Tech

Restoring lives one smile at a time

Christmas shelter initiative, they were able to provide 24 same day dentures for their homeless guests during the Christmas week.

2018 was the second year of the Den-Tech/Crisis collaboration and during this time they made 31 quick turnaround dentures for their homeless guests.

Trustees and volunteers worked every day (including Christmas day) between the 23rd of December through to the 29th of December to provide as many of the homeless as possible with a new denture and the ability to eat without pain and the confidence to smile once again.

Other current projects also include working with the University of Puthisastra in Cambodia to help set up a training facility for local technicians and an outreach programme to help those poorest of communities within the country, fundraising to raise funds for field laboratory kits to be used in Uganda and to help provide training to local Ugandan technicians and working alongside other UK based dental charities such as **Dentaid** year round to provide dentures and restorations for our homeless and socially mobile population.

Den-Tech also works closely with dental charity **Dentaid**. **Dentaid** have a mobile clinic which travels the country providing dental care to those who are unable to access dental treatment. Den-Tech works with **Dentaid** by providing lab support through our network of volunteer laboratories. **Dentaid** identify suitable cases, contact Den-Tech head office who assign a volunteer to that case. The rest of the work is then completed via post between **Dentaid** and the Den-Tech volunteer laboratory.

VETERANS BITE BACK is a project that is being set up and run with the help of both Den-Tech and **Blueprint Dental**. **Veterans Bite Back** is part of the **Southampton Veterans Walk** in centre, a centre set up by veteran **Colin Gaylor** and his wife **Tracey**.

In 2011 Colin had the idea of setting up a breakfast club for their Armed forces and veterans to meet up in a NAAFI style environment. This would involve members from all 3 services to sit at the same table having breakfast with a cuppa and, in Colin's words 'talking rubbish'.

Unfortunately, things happened in Colin's personal life that prevented him getting this breakfast club up and running at that time. Then in 2014 things settled down and Colin's life was back on track and moving again and finally the **Southampton Veterans breakfast club** was formed.



In 2018 Colin was introduced to **Andrea** by Alan and subsequently invited to attend a meet and greet with the Den-Tech trustees with a view to discuss a **Vets Bite Back** scheme.

Colin had identified a building that he was going to speak to his local MP about. It was an old NHS walk in centre which was no longer in use and he wanted to open this up as a walk in centre for veterans but also to house dental facilities for support of the veterans that would use the centre.

The idea came to fruition a little later in 2018 and now the veterans walk in centre is open for business.

Blueprint dental have arranged the laying of a new raised floor and dental chair to be fitted into what will be a dental clinic room and **Den-Tech** have delivered a full pallet of dental lab equipment and supplies in readiness to get the working lab up and running. **Den-Tech** are trying to source a lab bench, plaster trap and lab motor with hand piece as the final pieces of equipment required to get the lab up and running.

Once this is in place they will be looking for volunteers to attend the walk in centre as and when they can to facilitate the casting of models, immediate repairs, relines, additions or simple appliances etc onsite and anything more complex can be sent away to **Den-Tech** volunteer laboratories.

I would like to thank everyone for the support they have shown us so far and I am very excited to see what the future holds for us all in this exciting new direction and partnership.

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RECRUITMENT ANDY FOSTER, RECRUITMENT SPECIALIST



• Andy Foster is a recruitment specialist for dental technicians. Andy manages www.DentalTechnicianJobs.net the online job-board for dental technicians. Andy spent 20+ years running his crown & bridge lab, before moving into dental recruitment and online networking. When he's not working, Andy is a dedicated father, with an unhealthy weakness for coffee! You can contact Andy at andy@marshallhunt.co.uk

IS IT TIME TO FIND A NEW JOB?

Did you know that employee's typically stay at their current place of work for approximately 4.5 years before looking for a new job.

It's perfectly natural for employees to get itchy feet and want to scan the market to see what vacancies are out there. But if what if it's more than itchy feet?

HERE ARE 4 SIGNS THAT IT MAY BE TIME TO START LOOKING FOR A NEW JOB:

1. There's no room for career growth
If you've been working in your job for over 4 years and there isn't a step up for you.

If you're the type of person that values career progression above all else, but your current role isn't giving you the opportunities that you need, then it may be time to consider a new challenge.

There is really little point committing your time, energy and expertise in a company where you can't grow, which in turn can hinder your career development in the long run.

2. You work in a negative environment
No matter how much of a positive person you are, a negative work environment can have a huge effect on your well being.

If your co-workers are constantly complaining, and your boss isn't very happy either, it's only natural for this to have a negative effect on you. If you feel like this is happening a lot in your current workplace it could be time to move on.

3. Workplace isn't flexible enough
During your working career, there may be times when you'll need your job to offer flexibility.

Perhaps you have family responsibilities, or maybe you need a break from the traditional nine-to-five!

If you've tried to negotiate a new work schedule to have a better work-life balance and you can't come to an agreement that works for you, perhaps it's time to consider a move to a company that will provide the work-life flexibility that you require.

4. You dread going to work each day
Now, this may be obvious, if you go to sleep each night dreading the next day of work ... then it's time to start thinking about new opportunities.

It's normal to have worries about work every now and then, especially if you are going through a stressful period. However, if you dread each and every day you at work then it's time to move on.

Do you relate to any of these or perhaps all 4 signs? Well, it's time to start looking for a new job, at a company that will support your growth, and at a place where you will be happy.

NOW, HERE'S 3 UNIQUE WAYS TO FIND A NEW JOB:

FOCUS ON COMPANIES FIRST

More often than not, when people start their new job search, they focus their search on open jobs across many companies. But,

how about selecting companies that you'd like to work for first.

As you may have experienced, it's not always the job that's the issue, it's the company that you are working for.

So it makes sense to focus on companies that offer a great company culture, career growth and that the company has a good reputation with both clients and employees. Once you've established a list of companies that represent these key areas, start looking for their open positions, or send in a speculative CV.

CHECK YOUR NETWORK

Did you know a large percentage of people find new jobs through their network? Have a check through your contacts to see if there are any openings in the company that they work for, and approach them to see if they can put you in touch with the right person, to discuss the role. This will give you an advantage above other applicants as you will already know people in the company, who can give you inside knowledge, to help you make a positive impression in interviews.

SEARCH SPECIALIST JOB BOARDS

A good place to look for Jobs is a specialist job board such as www.dentaltechnicianjobs.net

Job boards are usually free to use for job-seeking candidates, so simply upload your CV and away you go, you're free to apply for technician vacancies that appeal to you.

Visit www.DentalTechnicianJobs.net to find live vacancies, job-seeking candidates, courses and more...



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4 Hours Verifiable ECPD in this issue

LEARNING AIM

The questions are designed to help dental professionals keep up to date with best practice by reading articles in the present journal covering Clinical, Technical, Business, Personal development and related topics, and checking that this information has been retained and understood.

LEARNING OBJECTIVES REVIEW:

- Strength of Zirconia
- Implant planning
- Customised Special trays
- Business of Management

LEARNING OUTCOME

By completing the Quiz successfully you will have confirmed your ability to understand, retain and reinforce your knowledge related in the chosen articles.

Correct answers from March DT Edition:

Q1.	C.
Q2.	A.
Q3.	B.
Q4.	C.
Q5.	D.
Q6.	C.
Q7.	D.
Q8.	B.
Q9.	C.
Q10.	C.
Q11.	D.
Q12.	B.
Q13.	A.
Q14.	C.
Q15.	D.
Q16.	D.

The Dental Technician

VERIFIABLE ECPD - APRIL 2019

1. Your details

First Name: Last Name: Title:

Address:

..... Postcode:.....

Telephone: Email: GDC No:

2. Your answers. Tick the boxes you consider correct. It may be more than one.

Question 1	Question 2	Question 3	Question 4	Question 5	Question 6	Question 7	Question 8
A <input type="checkbox"/>	A <input type="checkbox"/>	A <input type="checkbox"/>	A <input type="checkbox"/>	A <input type="checkbox"/>	A <input type="checkbox"/>	A <input type="checkbox"/>	A <input type="checkbox"/>
B <input type="checkbox"/>	B <input type="checkbox"/>	B <input type="checkbox"/>	B <input type="checkbox"/>	B <input type="checkbox"/>	B <input type="checkbox"/>	B <input type="checkbox"/>	B <input type="checkbox"/>
C <input type="checkbox"/>	C <input type="checkbox"/>	C <input type="checkbox"/>	C <input type="checkbox"/>	C <input type="checkbox"/>	C <input type="checkbox"/>	C <input type="checkbox"/>	C <input type="checkbox"/>
D <input type="checkbox"/>	D <input type="checkbox"/>	D <input type="checkbox"/>	D <input type="checkbox"/>	D <input type="checkbox"/>	D <input type="checkbox"/>	D <input type="checkbox"/>	D <input type="checkbox"/>
Question 9	Question 10	Question 11	Question 12	Question 13	Question 14	Question 15	Question 16
A <input type="checkbox"/>	A <input type="checkbox"/>	A <input type="checkbox"/>	A <input type="checkbox"/>	A <input type="checkbox"/>	A <input type="checkbox"/>	A <input type="checkbox"/>	A <input type="checkbox"/>
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3. Evaluation: Tell us how we are doing with your ECPD Service. All comments welcome.

.....

As of April 2016 issue ECPD will carry a charge of £10.00. per month. Or an annual fee of £99.00 if paid in advance.

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Answers will be published in the next issue of The Dental Technician. Certificates will be issued within 60 days of receipt of correct submission.

VERIFIABLE ECPD AS YOU NEED IT VIA THE DENTAL TECHNICIAN

METAL CASTING IS CHANGING

- Q1. What process is described for the featured casting?
 A. Wax and cast option.
 B. Milled and shaped.
 C. 3D Printed.
 D. Sprue and cast.

- Q2. What melting process is described?
 A. Electronic Arc.
 B. Laser Sintering.
 C. Flame Melting.
 D. High Energy direct contact.

- Q3. What system module is described?
 A. 3Shape design and cast module.
 B. Exocad 3Dframework Module.
 C. Castalot direct Module.
 D. inLAB 18 Partial Framework module

- Q4. What is stated as the basis for casting?
 A. The duplicated model.
 B. The investment compound model.
 C. The master model.
 D. The Waxed pattern.

- Q5. What parameter sets the design function?
 A. Insertion axis.
 B. The retentive axis.
 C. The Tooth axis.
 D. The Occlusal axis.

- Q6. How many castings can be made in a single production?
 A. 17.
 B. 23.
 C. 30.
 D. 42.

DTGB PAGES

- Q7. What is Dent-Tech?
 A. A dental laboratory based in Nottingham.
 B. A dental Charity.
 C. A dental company specialising in Ortho Supply.
 D. A New type of measuring device.

- Q8. What is the aim of the charity?
 A. To provide affordable dental appliances to those in need.
 B. To help fund the NHS hospital dental Laboratories.
 C. To provide equipment for digital dentistry.
 D. To help manage the bookkeeping in NHS Hospitals.

- Q9. What is Veterans Bite Back?
 A. A charity to aid disabled veterans.
 B. A campaign to support the Veterans walk in centre in Southampton.

- C. A fund raising organisation for veterans dogs.
 D. A money raising raffle.

YORKSHIRE DENTAL STUDY GROUP (YDSG)

- Q10. Who initiated the setting up of the Group?
 A. Yorkshire section of BDA.
 B. Yorkshire section of the DLA.
 C. Prestige Dental Company.
 D. Yorkshire section of the DTA.

- Q11. Who was the first speaker at the first meeting in November 2018?
 A. John Wibberley.
 B. Richard Egan.
 C. Paul Gainsford.
 D. Peter Grant.

- Q12. How many participants turned up?
 A. 24.
 B. 21.
 C. 28.
 D. 23.

- Q13. How many delegates attended on the Feb 28th meeting?
 A. 36.
 B. 50.
 C. 47.
 D. 39.

- Q14. Who was the speaker at that meeting?
 A. Tom Nelson.
 B. Peter Graham.
 C. Chris Wibberley.
 D. John Gordon.

- Q15. Who are the speakers listed for the DTS in May on Page 24?
 A. Tony Grimholt & John Davidson.
 B. John Griffiths & Reilly Davidson.
 C. Brian Johnson & Irene McNally.
 D. James Green & Steve Taylor.

DENSPLY SIRONA

- Q16. What is the motto for Densply Sirona product development?
 A. Tell us and we listen.
 B. Inspired by your needs.
 C. Supplying you right.
 D. Save the thinking, Just Ask.

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WELCOME TO... DENTAL DORIS

• DENTAL DORIS HAS WORKED IN DENTISTRY FOR MANY YEARS AND LIKES TO MUSE ABOUT ALL KINDS OF DENTAL AND NON-DENTAL TOPICS

The Dental Technician hopes Doris will be writing entertaining and thought-provoking pieces on a regular basis.



HABITS – THE GOOD, THE BAD AND THE UGLY!

WE all have a few bad habits and often these habits are stopping us being the person we really want to be... Most of us have many more 'bad' habits than 'good' and over time these habits can result in very serious consequences that most of us don't like to think about!

Over the Christmas time, I was fortunate to have a break in South Africa, this was the first 'relaxing' holiday I'd had for a few years and I took the opportunity to think about my life and a few small changes that might make me feel a little more 'in control'. I also had time to read an interesting book – *Atomic Habits* by James Clear.

GETTING GOOD HABITS...

Atomic Habits is the definitive guide to break bad behaviours and adopt good ones in simple steps, showing you how small, incremental, everyday routines compound and add up to massive, positive change over time.

James is a very interesting man who had a bat smashed into his face which resulted in a broken nose, dangerous brain swellings, dislocated eyes, and multiple fractures, all of which took many months to mend.

To get his baseball career back on track, he had no choice but to rely on the power of small gains. In college, he slowly accumulated good habits and eventually managed to become one of 33 players for the All-American Academic team.

According to James, every time we perform a habit, we execute a four-step pattern: cue, craving, response, reward. If we want to form new habits, we should make them obvious, attractive, easy, and satisfying. As James suggested I used a habit tracker as a fun way to measure my progress and make sure I didn't fall off the wagon!

SMALL CHANGES...

My small changes were to do more exercise including taking up yoga and swimming, to work fewer hours and make sure that the things that I spent my time doing were meaningful to me and my loved ones. We are now in

March and I've been doing yoga twice a week, swimming most weeks and I'm much more aware of how I spend my time and who I spend it with. I would highly recommend *Atomic Habits* as a good read or download the Audible App and listen to the book while you work!

These are some of the insights you will learn:

Lesson 1: All habits are based on a four-step pattern, which consists of cue, craving, response, and reward.

When it comes to habits, James suggests that environment is the invisible hand that shapes human behaviour. That's why a prompt is always the first step in performing any habit. It may not always be external, but, most of the time, it will be. Then, three more stages follow to complete the four-step pattern:

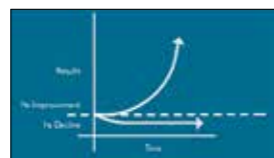
Cue: A piece of information that suggests there's a reward to be found, like the smell of a cookie or a dark room waiting to light up.

Craving: The motivation to change something to get the reward, like tasting the delicious cookie or being able to see.

Response: Whatever thought or action you need to take to get to the reward.

Reward: The satisfying feeling you get from the change, along with the lesson whether to do it again or not.

Lesson 2: To form habits, you must make them obvious, attractive, easy, and satisfying.



change, which correspond to one part of the loop each. Here they are, along with some ideas for how you can use them to facilitate good behaviour and make bad ones harder:

Make it obvious. Don't hide your fruits in your fridge, put them on displaying them on the kitchen counter.

Make it attractive. Start with the fruit you

like the most, so you'll actually want to eat one when you see it.

Make it easy. Don't create needless friction by focusing on fruits that are hard to peel. Bananas and apples are super easy to eat, for example.

Make it satisfying. If you like the fruit you picked, you'll love eating it and feel healthier as a result!

You can apply these to all kinds of good habits, like running, working on a side project, spending more time with family, and so on. Conversely, do the opposite for bad habits. Make them invisible, unattractive, difficult, and unsatisfying. For example, you could hide your cigarettes, add financial penalties, get rid of all lighters, and only allow yourself to smoke outside in the cold.

Lesson 3: A habit tracker is a fun and easy way to ensure you stick to your new behaviour.

With a framework like this, making and breaking habits becomes fun. You'll likely want to tackle multiple things sooner rather than later, but it's important to not take on too much at once. An easy way of keeping yourself accountable without becoming overwhelmed is to track your habits with a habit tracker.

The idea is simple: You keep a record of all the behaviour you want to establish or abandon and, at the end of each day, you mark which ones you succeeded with. This record can be a single piece of paper, a journal, a calendar, or a digital tool, like an app.



This strategy is based on what's sometimes called the Seinfeld productivity

hack. Comedian Jerry Seinfeld apparently marked his calendar with a big 'X' every day he came up with a joke. Soon, his goal was to not break the chain. It's a simple, but effective strategy to help you build good habits.

And since habits are the compound interest of self-improvement, that's a process we should all start today.

When it comes to changing our behaviour, we all need to find out what works for us. That said, there are several scientifically proven strategies we should all try first. *Atomic Habits* is a complete, fun, engaging, and simple to understand compendium of those strategies. I highly recommend you make it your first stop when wanting to learn about the science of habits.

DENTSPLY SIRONA LAB: PASSION AND HARMONIOUS WORKFLOWS FOR LABORATORIES

Commitment to the dental technology trade and a product range that puts laboratories safely on the road to both analog and digital success, – that's what Dentsply Sirona Lab stands for. At its debut at the International Dental Show (IDS), this new business division, which was established in 2018, will be presented with comprehensive solutions and workflows for modern dental technology. Visitors to the trade fair can especially look forward to innovations in ceramic materials, CAD/CAM components and laboratory equipment.

Bensheim/Salzburg, March 11, 2019.

Depending on the task, the dental technology work process includes a whole series of individual steps that can be mastered in a variety of different ways. The optimum production method, the preferred materials and many other factors have to be decided based on the case. Dentsply Sirona Lab has the right answers for virtually every requirement in dental technology – be it in terms of analog, digital or materials.

Holistic further development of dental technology

By cooperating with dental technicians, scientists and universities all over the world, as well as with our Global Lab Experts Network (GLEN), Dentsply Sirona gathers impulses and inspiration from every aspect of dental technology, ensuring pioneering, scientifically verified innovations along the way. In this way, according to the motto "Inspired by your needs", we develop quality products for dental technology laboratories on a solid foundation.

The novelties that will be presented at the IDS 2019 follow the same principle. Among others, they include the extension of the all-ceramic system, Cercon, which has been comprehensively clinically documented. After supplementing the tried-and-tested zirconia brand to include the highly translucent (Cercon ht) and extra translucent (Cercon xt) variations in recent years, a special multilayer variation has now been added to the range – Cercon xt ML. This is an extra translucent material with various layers of color. It enables even better reproduction of the color progression of the natural tooth than was previously possible. As a result, the laboratory benefits from the color reliability of the tried-and-tested True Color Technology and the uniform sintering temperature, which we already know from Cercon ht and Cercon xt. This simplifies and speeds up the sintering processes in the laboratory.



TOP ROW (L TO R) A new sintering option: The inLab Prosinter offers a high degree of process reliability, and is very impressive in terms of design and versatility; With immediate effect, the tried-and-tested zirconia brand, Cercon, has been supplemented by a special multilayer variation: Cercon xt ML; Thanks to the new color variations, MO1, MO2 and BL1, the pressed ceramic, Celtra Press, enables the laboratory to produce more accurate, natural-looking esthetics and to cope with difficult cases; BOTTOM ROW (L TO R) The Multimat Cube is the ideal universal furnace for all common commercial dental ceramics in dental laboratories in terms of flexibility and process reliability; The new variation of the furnace, Multimat Cube press, is suitable for processing pressed ceramics – for example, Celtra Press.

New sintering and firing furnace options

Coinciding with the start of the IDS, a new option will be available to laboratories for these sintering processes and others in the form of the inLab Prosinter. This sintering furnace not only offers a high degree of process reliability – it is also very impressive in terms of design and versatility. The inLab Prosinter is particularly designed for sintering zirconia, and the inLab Prosinter variation can be prepared for metals or non-precious metals in just a few seconds. The inLab Prosinter is also quick, easy and safe to use with its new touch screen and pre-set sintering programs for the Dentsply Sirona zirconias.

The Multimat Cube is the ideal universal furnace for all common dental ceramics – including lithium silicate and disilicate glass ceramics. It also has pre-installed programs for sintering the Dentsply Sirona materials that facilitate everyday work in the dental lab. A multi-stage heating program and a two-stage cooling program ensure a high level of process reliability. This is further enhanced by the feature that resumes the firing program after a brief power outage. The Multimat Cube press version of the furnace is suitable for the processing of pressed ceramics, including the popular pressable lithium silicate ceramic, Celtra Press.

A broader spectrum in pressing technology and the CAD/CAM workflow

The success of Celtra Press inspired Dentsply Sirona Lab to develop three additional pellet colors. The material is now also available to laboratories in the color variations MO1, MO2 and BL1. The MO pellets are particularly suitable for covering devitalized or discolored stumps, and the dental technician can meet the patient's wish for even brighter teeth with the color BL1.

The new collaboration between Dentsply Sirona and the CAD/CAM software manufacturer, exocad, results in far-reaching flexibility in the digital workflow. The option of direct, convenient transmission of digital impressions from the Dentsply Sirona intraoral scanners in a validated workflow to laboratories that work with the exocad software is an essential part of this.

Furthermore, coordinated, optimized data interfaces between the exocad DentalCAD software paving the way for even better dental technology. With these novelties, as well as others, and an unusually large range of tried-and-tested dental technology products, Dentsply Sirona Lab will be presented at this year's IDS as a reliable, innovative partner to the laboratories. In this way, together with the visitors and a highly motivated trade fair team, this paves the way for even better dental technology.

DTS 2019 GOT YOU COVERED!

The Dental Technology Showcase (DTS) is the largest lab-dedicated event in the dental calendar. It offers an array of learning, networking and discovery opportunities for all members of the lab community to take advantage of, with two-day lecture programmes, outstanding speakers and an extensive trade exhibition.

Among the educational features of 2019 will be the OTA Seminars, presenting sessions specifically tailored to orthodontic technicians. Delivered in association with the Orthodontic Technicians Association (OTA), the theatre will help professionals in the field improve their workflows and grow their businesses. With a line-up of highly renowned speakers taking to the podium to share their expertise, this will be the ideal platform from which orthodontic technicians can develop their skills and knowledge.

James Green will be presenting a lecture entitled "Medical Device Regulation – What does it mean for the dental team?" on Friday 17th May. James is currently a Maxillofacial and Dental Laboratory Manager of Great Ormond Street Hospital for Children NHS Foundation Trust / Mid Essex Hospital Services NHS Trust / North Thames Cleft Centre. Having received a Fellowship of the Orthodontic Technicians Association, he is also Secretary for the association, as well as the immediate past president of the Dental Technologists Association.

Discussing why the subject of medical device regulation is so important for dental professionals to be aware of, James says: "All dental professionals who commission or produce custom made devices – such as dentures, crowns or orthodontic appliances – need to comply with the relevant requirements of the Medical Devices Directive, MDD. The Medical Device Regulation, MDR, was published on 5 May 2017 and came into force on 25 May 2017. Following a three-year transitional period, it will apply to professionals from next year. The MDR will supersede the MDD [93/42/EEC] and the EU's Directive on active implantable medical devices [90/385/EEC]."

"The MDR will be an important topic for dental professionals because they will need to understand how it affects the production and provision of custom made devices. From next year, all dental professionals who commission custom made devices will need to ensure that their manufacturers are compliant. Manufacturers are most commonly dental technicians working in dental laboratories, fabricating devices such as orthodontic appliances, but it equally applies to devices produced by other dental professionals within dental practices." ▶



James Green

▶ Highlighting what he hopes delegates will take away from his lecture, James adds: "I hope my lecture will explain how the new regulations differ from the MDD and how they will affect dental professionals who produce and provide custom-made devices."

"I have always found DTS to be a very beneficial event to be involved with, both in terms of the CPD on offer and the trade exhibition."

For clinical dental technicians, the CDT Conference – designed in conjunction with the British Association of Clinical Dental Technology (BACDT) – will provide relevant updates, information and inspiration. Speakers will be demonstrating how they've made processes and technologies work for them, helping delegates to improve their own workflows.

Steve Taylor will be discussing "Immediate loading, prosthetic planning to final fit". A Partner at the Taylor Dental Technology Centre and a highly experienced clinical dental technician, Steve will be sharing a wealth of practical tips and advice to help delegates optimise their immediate loading cases.



Steve Taylor

"Immediate loading continues to become more popular in UK dentistry," Steve says. "It's therefore essential that technicians are aware of the latest techniques and materials, developing an understanding of the field, even if they are not tackling these cases themselves."

"During my session at DTS 2019, I will explore a tried and tested working procedure for immediate loading cases. I've completed a few hundred of them so I know what works and what doesn't. I'll also consider how to optimise soft tissue profiling in order to enhance the definitive restoration and I will demonstrate some cases to show each step involved."

"The challenges that professionals need to overcome in this area are in achieving an aesthetic, functional and cleansable restoration for the patient to wear three to four months prior to the definitive restoration being fitted. My session will provide practical solutions that can be implemented."

"I spoke at DTS last year and have been chairman for the educational programme in the past. I think it's a very good event for technicians and CDTs because there are a lot of companies with products specifically for them and there is good CPD available."

As both James and Steve have alluded to, DTS will host a lab-dedicated trade exhibition with more than 100 manufacturers and suppliers displaying innovative products, materials and technologies. Not only will this provide a chance to source new products and make use of on-stand learning, but it will also be the ideal place to meet people from all corners of the profession.

FREE FOR DELEGATES TO ATTEND, MAKE SURE YOU DON'T MISS DTS 2019 AND REGISTER ONLINE TODAY!

DEVELOP YOUR CAREER WITH POSTGRADUATE QUALIFICATIONS

Chet Geisel will be presenting "Post-registration qualifications in dental technology. What are your options?" as part of the CDT Conference at the Dental Technology Showcase (DTS) 2019. As the title suggests, he will be exploring the various training courses professionals can attend in order to develop their knowledge and skills and encourage their career progression. He says:

"It's crucial for dental technicians to keep abreast of the ever-changing landscape: technologies, techniques and, of course, materials change in a constant cycle. It is important to keep up-to-date in order to be able to maintain best practice."

"Postgraduate dental technology qualifications are recognised within the NHS, so dental technicians working in a hospital environment will be able to work towards higher banded posts. For those focusing on more private work, these qualifications will serve to enhance their skills and give way to greater job opportunities in the future."



"There are a few challenges when aiming to complete postgraduate qualifications. Cost is the main issue; there is a mixed bag of funding sources for students on an MSc, with some funding available through their department and some self-funding required. In addition, time can be a major challenge, as fitting coursework around day-to-day lab work can be difficult. The benefits of some courses are therefore in the delivery mode – online and blended learning programmes can work around this and provide a practical solution."

"When it comes to choosing what courses are best for you, there is a balance to be achieved. This includes total cost to yourself, the amount of time needed (especially for those with busy lives!) and foreseeable benefits once the qualification is obtained."

"My lecture will discuss all these aspects mentioned in more detail and, in particular, I will explore training delivery methods, such as online and blended learning."

DTS 2019 WILL BE HELD ON FRIDAY 17TH AND SATURDAY 18TH MAY AT THE NEC IN BIRMINGHAM, CO-LOCATED WITH THE BRITISH DENTAL CONFERENCE AND DENTISTRY SHOW

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THE FIRST MEETING OF THE GREATER MANCHESTER DENTAL TECHNICIANS STUDY CLUB

WED 27TH MARCH 2019

It was a great credit to the organisers that the first meeting of the study club was so well attended. The subject of interest was the introduction of Digital processes to your laboratory and was sponsored and supported by Blueprint Dental, Planmeca, InvisionOne, VITA and the Dent Tech Charity. The meeting was held at the Queens building of the University of Bolton. A fairly new facility created for the provision of training for Dental Technicians and other Dental Care Professionals. I was greeted, by the man behind the setting up and success, of the on going University, **Robert Biggs**, who very proudly told me the facility had been used by 200+ organisation for meetings. All this along side the development of the University and its expansion into the Greater London Area at Barnet College.

Fran Olroyd whose energy and persistence created the study club introduced the first speaker **Lee Mullins** (pictured left) who spoke of his introduction to Digital techniques and how it had in fact given him a whole new philosophy on how he did his dentistry. Lee had worked before in a larger laboratory but got involved with the digital area after a scanner was introduced into the laboratory. Lee had been a metal worker with C/C and a good experience in denture making.

Once Lee began to use the digital methods, with growing success, he quickly decided that it offered him a new possibility, which he began to master and was soon spotted by Vita. Lee decided to start his own laboratory to his design and managed to create a lovely neat small laboratory in his own Garden. He attended several courses and continued to travel and learn in the USA and Europe. Becoming recognised as someone who was worth listening to. Lee now offers courses at his laboratory on a one to one basis.

He outlined his attitude to what he does on a daily basis with enthusiasm and a great sense of humour. He is delighted to be



almost specialising in full arch restoration using the anaCAM from Vita as the basis of his material choice and scanning with the Medit Scanner from Blueprint Dental, which he loves. He has set out a business plan for His laboratory offering which he has obviously made successful. He offers an inclusive plan based on a fixe total price . He has worked hard to simplify every stage and works to a minimal production cost. He particularly likes working on Full arch Hybrids with implants. He has managed to reduce the labour input by using his digital tools, as he put it, on his terms, and always outside the box. Lee was indeed a very enthusiastic speaker and it was interesting to hear from somebody who had been a traditional qualified technician, who still admits to thinking in the analogue mode about his restorations. It is clear that Lee has indeed converted to using digital with great success for himself and his business.



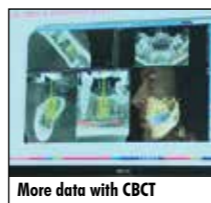
He demonstrated by showing some of the easily added innovations available today and spoke particularly about developed techniques such as radiographic information and full face reproduction from simple and well proven processes. With the modern chair side scanners the programmes can easily be connected to work in unison. Your future first scan may include a full radiographic assessment and reproduction, which can allow full planning and indeed, template design and manufacture. The implant position can be predicted before the patient has had any surgery at all. For the lab to receive the data it must have a system which can accept the files, in whichever form they are sent by the practitioner. It might be by We Transfer or other method or it may be by plug in sticks. And it might be from a system which is not understood by your system. So be warned that you should have the most open system as possible and ensure the sales man understands the needs. Finally he stressed that you should not just be able to receive the information but you must know what to do with it when you get it. The supplying company will be offering a backup service and on going support as part of your package. If they are not you have chosen the wrong company.



I think the audience were given a fair and clear overview of the move to digital, but I do think everyone agrees that the time is now! Digital is here, get involved or plan your retirement.



He explained that the scanned image from the clinic may well include faults which are not obvious. For instance, if the clinician scans without checking the image as he goes, undercuts or other areas that are in shadow because of the angle of the light will not reproduce correctly. The scanned



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