10 Years of Successful “Continuing Dental Education” by CAPPmea

By DentalTribune MEA / CAPPmea

Dental Tribune MEA/CAPPmea

Dental Tribune MEA / CAPPmea

Dental Tribune MEA / CAPPmea

Dental Tribune MEA / CAPPmea

Dental Tribune MEA / CAPPmea

Dental Tribune MEA / CAPPmea

By DentalTribune MEA / CAPPmea

Dental Tribune MEA / CAPPmea

CAD/CAM & Digital Dentistry significant growth in Middle East in last decade

By DentalTribune MEA / CAPPmea

Dr. Julian Caplan, U.K.: 10 years ago CAD/CAM was being heavily used by laboratories but still had limited capabilities chairside. The limitations of the camera and the software reduced the clinical options and the interplay between CAD/CAM technology in-surgery and CAD/CAM technology in-lab. The software was “3D” but there were still few “players” in the market. There were a number of competitors beginning to enter the arena and this would be a catalyst for beginning to enter the arena.

Dr. Mark Morin, USA: CAD/CAM was available but only provided a limited scope. The number of users was very small. There was only one company that made the machine. It could only do limited types of restorations and there were limited materials available to make the restorations.

Dr. Manir Silvandi, Canada: 10 years ago CAD/CAM dentistry was more or less in its infancy stage. Though chairside systems, such as the CEREC chairside system from Sirona, were well in a reasonably advanced stage, most of the dental laboratories oriented systems were just learning to crawl. Very few dental manufacturers ventured into this technology. A side from some high precision milling units, such as the Ever lest Milling Unit from KaVo, both hardware as well as software did not enjoy the required features to warrant predictable and precise restorations.

By DentalTribune MEA / CAPPmea

Many dentists were dealing with this topic as “Not for every dental field”. But with such a specialized event like CAD/CAM & Digital Dentistry Int’l Conference in Dubai, the awareness of this highly important field of Dentistry became more and more known and developed.

Ten years ago, one could not imagine that such opportunities existed. They are now able to change dentistry and improve dramatically the patient care. All this was mainly driven through a lack of understanding on the lab side though. I remember the Procera era, where a scanner which just could create single restorations was enough to win fans all around the world with a central manufacturing solution using ADOS, on the other hand a DCS in-house system which was on exhibitions, grilling restorations out of hip-material. The switch came with the ZrO2 green stage material, as it allowed to null economically ceramic materials.

Even though there was no movement for open systems, the industry made the implementation of CAD/CAM possible, due to support and training of dental technicians. Information Technology was never part of the dental world and the majority of dental technicians did not even believe that soft- and hardware would change their
whole working environment. Even just a couple of years ago, lab owners told me that they are still waiting for the right system to go for, unless there was the perfect system. I believe there is still no perfect digital solution, but we are getting closer. We have to admit, however, that hand craft was neither perfect - but we adapted perfectly to the conditions.

Rik Jacobs, The Netherlands: 10 years ago, the dental industry in terms of CAD/CAM was in an exploring stage, definitely in terms of economics of scale. It was the time that the first dental design software came on the market as far as I can remember it was transferred from the hearing aid market on the one hand and on the other 3D systems like CEREC were just launched. However the first serious milling machine came shortly after in 2007.

Dental Tribune MEA: Today, which aspects of dentistry have been altered most due to the rapid development of CAD/CAM?

Dr. Julian Caplan, UK: In-surgery restorations, particularly for posterior indirect restorations have become simplified and far less technique sensitive to finally make this technology a more mainstream option. Dentists can now visualize how they can integrate this technology into their everyday dental practice. The ability to morph CAD/CAM scans into CT scans is simplifying computer-guided surgery. Pre-planning for accurate implant placement utilizing CAD/CAM, and CT scans will become the industries standard although the necessary surgical skills will still be a requirement - the computer has not replaced the surgeon – yet.

Prof. Atif Shakar, Egypt: Well, development of CAD/CAM and its speed progress, have touched every dental field. Of course Restorative and Fixed Prosthodontics fields have gained the highest advancement, but Orthodontic, Surgical, Removable Prosthodontics & Radiology branches of dentistry have been included in the CAD/CAM developments. In my opinion, within 5 years from now, CAD/ CAM & Digital Dentistry will be covering all specialties of the dental science.

Lutz Ketelaar, Germany: Many dentists have adopted today the aspects of dentistry that have been altered most in our profession by CAD/CAM. I find it easy for the dentist to treat patients with implants - computer - aided surgery, the implant world has now almost all digital and connected to the office through the internet. Dentists have learned how to work with these labs differently than they did in the past. The implant world has now been simplified cone beam technology. It has made it easier for the dentist to treat patients, place, and restore the implants.

Dr. Manur Silveaudi, Canada: Almost every single discipline of dentistry had its share of CAD/CAM technology. Probably the fields of Aesthetic, Restorative and Prosthetic Dentistry got the lion’s share. Indirect Restorations are more precise and predictable when fabricated through CAD/CAM systems. Guided Implant Surgery made the field of Implantology easier and safer procedure. CAD/ CAM driven orthodontics as well is getting more and more utilized.

Dr. Mark Morin, USA: I feel that today the aspects of dentistry that have been the most altered in our profession by CAD/CAM is the implant and the lab world. The lab world is now almost all digital and connected to the office through the internet. Dentists have learned how to work with these labs differently than they did in the past. The implant world has now been simplified cone beam technology. It has made it easier for the dentist to treat patients, place, and restore the implants.

Lutz Ketelaar, Germany: I am often surprised how quick the old values of manual dentistry have adopted the new solutions and how the markets adapt this opportunity worldwide. For me personally, the direction of monolithic restorations with the opportunity to go nodule-free and virtual adaptations, without losing esthetics out of the view, is a big change and can be seen on the materials that are being offered - simple ZrO2 has been replaced for translucent variations in 16 shades, classical porcelain has a successor in high strength technical glass materials which natural opalescence and fluorescence.

CAD/CAM is not limited by its opportunities, but of economic aspects - not everything that is possible makes sense. The trust into the investment of new technologies with an open end is limited. The price for machines, materials and dental restorations is very much under pressure, knowledge and service are underestimated and almost ignored behind the pricing policies.

Rik Jacobs, The Netherlands: So many aspects, it is based on imagination what happened only 10 years ago. Certain treatments can be completely planned and executed by CAD CAM, consider Cone Beam CT, the success of CEREC at the practice of the Doctors, the transformation from a handicraft into a high tech virtual planned 3D work environment, the start of the Milling centers, the overproduction of the total number of milling centers in certain countries, the total acceptance of Zirconia for Crown & Bridge applications and shortly 3D Printing which will become more and more accepted in the profession.

Dental Tribune MEA: What advantages do CAD/CAM systems offer for the dental practice versus conventional techniques?

Dr. Julian Caplan, UK: In-surgery CAD/CAM systems allow the dentist immediate evaluation of their preparations - specifically clarity of their margins and occlusal clearance. In fact many universities are utilizing this technology for their undergraduate teaching. The wonderful progression of this pre-manufacture assessment using digital scanners is that the program can be altered where there are deficiencies in the preparation, the altered parts removed from the original scan and only this part need be rescanmed. This comes into a world of its own when a dentist is involved with multiple preparations which previously would require a completely new impression if one of the preparations did not fulfill the required criteria. CAD/CAM scanning is not only time efficient it also greatly reduces a dentist stress.

Prof. Atif Shakar, Egypt: CAD/CAM systems added many advantages to the dentists as well to the dental patients. Speeding up the dental treatments was a great discovery what has not been possible without CAD/CAM systems. High quality of precision has transferred the dental field to another spectrum of perfection. Technology-based treatments have increased our patients’ expectations, which are now possible, thanks to the versatility of Digital dental products.

Dr. Manur Silveaudi, Canada: CAD/CAM generated restorations are more precise and fit better than conventionally produced restorations. They can be manufactured in a faster and better reproducible way. CAD/CAM technology saves time, offers safer treatment methods, and makes practicing dentistry less stressful and more enjoyable.

Dr. Mark Morin, USA: The advantages that CAD/CAM offers to the dental practice over conventional technologies are numerous. The first one is efficiency. The ability to do crowns in one visit helps increase the profitability of the dental office. It allows us to participate in more of these PPO type insurance plans since it helps us control our cost by eliminating the lab expense and a second appointment. Studies have also shown how the use of digital impressions are much more accurate and predictable than the traditional impression technique. It also benefits the patients because it makes the treatment predictable and convenient.

Lutz Ketelaar, Germany: CAD/CAM allows a constant high quality of restorations, not only depending on manual skills in dental education - this is not the end of the classical dental technicians, otherwise we could also expect PC-gamers who play flight simulators to take over your next flight to Europe. Dental knowledge allows to use the instrument of CAD/CAM to become a perfect solution for an efficient workflow in high, mid and low price segment.

Rik Jacobs, The Netherlands: Predictable techniques of flow management, relieving the client & saving costs.

Dental Tribune MEA: Given the proven positive results, what are the reasons why some dental practices are remaining on the sidelines when it comes to CAD/CAM technology?

Dr. Julian Caplan, UK: There are many reasons but the main reason is perceived cost of the systems to purchase. However this is only because the practitioner has not understood the savings that they would make in materials and laboratory costs.
Some dentists not being involved in CAD/CAM technology is probably lack of proper exposure. CAD/CAM dentistry is still more or less considered a feature of "elite dentistry." The second most obvious reason may be that quite few dental practitioners do not realize the full positive impact of CAD/CAM technology on their daily practices. Manufacturers, organizers, and educators have to put more effort to bring this technology to the average dental practice.

Dr. Mark Morin, USA: The number one reason keeping practices from sidestepping CAD/CAM Dentists still do not think they can justify the cost of the technology. This absolutely false. By just doing one crown a day the dentist can pay for the technology in the first year. I also see dentists who are scared of using the technology. Dentists find it difficult to learn how to use CAD/CAM. Over the years this technology has become easier and easier to use and can be delegated in most areas to the assistant.

Lutz Ketelaar, Germany: There is no point in drawing black-and-white. The manual skills of an educated and experienced dental technician using precious alloys is outstanding, if he gets the time and the pay to do this art. There are still dentists and labs who manage to keep this offer available for people who are willing to pay for manual made quality. We can see the same for luxury goods such as watches - the majority of sold watches worldwide will be comparably cheap, but there are still people where people can buy manually made "art work".

Rik Jacobs, The Netherlands: For these practices, CAD/CAM systems have to become more Plug & Play, that's the industry's full responsibility; CAD/CAM should be fully integrated into dental education on all levels as well.

By Sirona

DUBAI UAE: IFS Cologne was once again a record breaking trade-fair. Sirona presented itself to industry professionals as an experienced specialist in the field of digital technologies for dentists and dental technicians. This was borne out by spectacular innovations in optical, digital, laser technology as well as by pioneering new developments for CEREC and treatment centers. For the Middle East region, dental professionals will be able to see these latest innovations during the anniversary unveiling 10th CAD/CAM & Digital Dentistry Int Conference in Dubai on 09 May 2015 – Jumeira Beach Hotel.

As the dental market leader and a technology pioneer, all at Sirona are passionate about enhancing our products and services. We are permanently investing in research and development, as well as our global sales and service structures. Being close to our customers is essential, which is why we have 26 sites around the world where we work together to advance global dental health.

In May 2015, Sirona LLC will be founded in Dubai in order to support a direct business operation towards the private customers market in UAE. The big success of previous years has been recorded through increasing sales and services experienced by Sirona in the region. This is an important step for Sirona in improving the delivery of professional sales, after sales and dental education to the UAE market. Sirona LLC will continue to work alongside MIP in order to fully service the needs of the Government sector which remains equally important.

With UAE being a significant hub for its business and education in GCC, the setting up of Sirona LLC underlines the constant commitment to researching, development and better servicing of the end-user with surpassed quality to the dental industry whilst remaining reinforcing the image of Sirona worldwide. This will be achieved through a fully dedicated Sirona sales and technical team and Product specialists who will work closely together to deliver premium services to the private market in the UAE.

As you can imagine we have much more to share, so Sirona encourages you to browse our website and review the highlights of 2014 and novelties of IFS 2015. You will enjoy diving into our world of innovation and reading about some of Sirona’s advancements, both within this issue of Dental Tribune MEA and on our official website as well as through all of our official channels.

Make sure you visit Platinum Sponsor Sirona at the upcoming 10th CAD/CAM & Digital Dentistry International Conference on 08-09 May 2015, Jumeirah Beach Hotel where we will present the latest trends and developments for the first time after IFS Cologne.

Contact Information
Dr. Amro Adel
Area Manager GCC & Pakistan
Country Manager Saudi Arabia & United Dental Gulf E: amro.adel@sirona.com

SIRONA LLC founded in Dubai to support a direct operation for UAE private market

Lutz Ketelaar, Germany: The future will bring dentist and labs closer together for a better, faster and more economic service towards the patient. Necessary patient data and scheduled appointment can be shared between both parties, manufacturing sites involved and their status shared - the workflow gets lean. The dental field of restorations is limited, but still needs innovations and progress in finding appropriate - possible technical approaches also need to be affordable - Dental treatment is in direct competition with luxury goods, vacation or even affordable standard of living. We can learn a lot from the US about marketing the beauty business of dentistry, but should not forget that we also need highly educated and trained dental technicians to achieve future success.

Rik Jacobs, The Netherlands: The next revolution will be the total integration of newly developed Dental 3D printers for a wide range of Dental applications.