United under a single banner of “Leading the world to optimal oral health”

By Dr Orlando Monteiro da Silva, FDI President

The FDI has a long and proud history: founded in Paris in 1907, our Federation lived, prospered and made its mark on oral health worldwide through the long and sometimes troubled years of the 20th century. One of the reasons behind its original establishment was to organise dental congresses with a focus on dental education, oral hygiene and public dental health and, in general, to resolve issues of complicated customs, regulate the profession and enable progress.

Anyone reading the programme for this special, celebratory 100th FDI Annual World Dental Congress cannot fail to be impressed at how close our organisation remains to its founding goals, principles and traditions. The same care as ever has been given to compiling an exceptional scientific programme that addresses the major topics and concerns of dental practitioners today, presented by some of the world’s leading clinicians and experts in the field.

Always in the vanguard of trends and thinking, the FDI, at this year’s event, is maintaining its focus on the future role of dental medicine, placing it firmly within the context of public health policy, strategies in fields of public concern such as noncommunicable diseases, and the imperative of linking oral health with general health.

The congress itself is the key event in the organisation’s annual calendar for continuing dental education: most of the time and in at least one region, the FDI provides continuing education throughout the year. However, the congress brings a unique, international focus, with speakers from every area of the world, the Americas, Africa, South and West Asia, the Asia Pacific and Europe.

It is a place where ideas are communicated and shared among people from different horizons and where friendships are cemented. Way back in 1922, King Alfonso of Spain, addressing FDI delegates in Madrid, said, “By your meeting here you men of science are giving a lesson to diplomats. Because, as soon as something can be done for the good of humanity, for you nations no longer exist (…) A much higher good of humanity, for you nations and in a unique fusion of Eastern and Western heritage and culture.

Hong Kong has always kept up with advancing technologies in dental practice in order to meet the constantly evolving needs and demands of the community. As the representative body of the Hong Kong dental profession, the Hong Kong Dental Association has been taking a proactive role in promoting oral health in collaboration with FDI World Dental Federation and local government, as well as establishing an exchange network with our Mainland colleagues and neighbouring countries or places over the years.

The 2012 FDI AWDC provides all dental colleagues worldwide with a vibrant platform to unite and enjoy this prestigious event.
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Global Caries Initiative is going public in Hong Kong

FDI launches new website in partnership with DTI

Today saw the official launch of the FDI’s Global Caries Initiative (GCI) website, through which the federation will communicate the GCI’s aims and achievements. Through a secure platform on the website, partners of the initiative can also debate and discuss specific ways to move the project forward.

The FDI said that it is proud of the GCI not only for the innovative and visionary role it assigns to dental medicine, but also for the opportunity it offers to better integrate dental medicine into public health policy for example in the field of noncommunicable diseases. First launched in 2009, with support from founders sponsors Colgate, Unilever, Procter and Gamble, GlaxoSmithKline and Wrigley, the initiative was founded to integrate, in a practical way, the global health promotion dimension of the FDI’s mission. Its ultimate aim is to facilitate a paradigm shift towards preventive caries management.

With that in mind, one of its first achievements was the development of a comprehensive framework for caries classification and management. The FDI Caries Matrix (2011) is a key step in integrating current science and establishing political consensus for such a framework. It is also intended to be an initial step towards integrating current science into dental practice, while recognising that it will need further development and refinement. Its development has now been completed and it provides the foundation for the GCI’s future progress.

The GCI is also FDI’s concrete response to a perceived need best expressed at the 52nd session of the World Health Organization Executive Board by WHO Director-General Dr Margaret Chan: “Oral health is a neglected area of international health.”

Members of the dental profession agree that caries is not just about oral health; it is also about quality of life and, considering the number of school and work days lost due to oral pain, economic cost. Yet only a few international programmes and related funding mechanisms address the issue. The GCI intends to reverse this trend, generate greater awareness about the implications of neglected oral health and, with its focus on prevention, raise oral health to a higher level of international and national development policy.

According to the FDI, the GCI is not a move from a surgical and restorative model of care to a preventive one, that is replacement, since restoration, whether for health-related or aesthetic reasons, will always have a vital role in the work of the dental professional. The preventive model fulfils a more specific dimension of “leading the world to optimal oral health” by reaching a wider public worldwide in a shorter time frame. It rather seeks to encompass appropriate restorative care within a prevention-based model of oral health to expand value and contribute to health outcomes, the federation said.

Visitors can join a live demonstration of www.globalcariesinitiative.org during the FDI Annual World Dental Congress at Booth K29 in the exhibition hall.

Live.Learn.Laugh. partnership

Oral health promotion started in Vietnamese primary schools

A partnership between the Vietnamese Odonto-Stomatology Association (VOSA) and Unilever’s P/S brand aims to improve oral health among 5,000 Vietnamese primary school children by providing oral care education and encouraging them to brush their teeth twice a day with a fluoride toothpaste. The oral care education is provided by primary school teachers, who received training and materials from the partners to help them in the classroom.

A behaviour change programme has been initiated, integrating twice daily brushing into the normal school routine, with the partners installing toothbrushing booths in school so that pupils can brush their teeth after meals. An important aspect of the programme focuses on helping parents to get their children to brush their teeth in the mornings and evenings. The partners encourage parents to make twice daily brushing with fluoride toothpaste an activity in which the whole family participates.

Discussing the potential impact of the Live.Learn.Laugh partnership project, Dr Trinh Dinh Hai, VOSA President, said, “Implementing oral health care for young children will yield lifelong outcomes. When children grow up with a bright smile, they are more confident.”

Remember to visit the Live.Learn.Laugh partnership stand to find out more about the exciting oral health improvement projects taking place around the world.
Challenges for military dentistry discussed

Prior to the FDI Annual World Dental Congress, the Section of Defence Forces Dental Services (SDPDS) held its World Military Congress from 26 to 29 August at the Hong Kong Convention and Exhibition Centre. Under the theme “Military dentistry in 2012”, the meeting focused on the latest developments in oral health care carried out by military establishments in land and maritime environments.

On Tuesday, delegates also had the opportunity to attend a one-day visit to military facilities in Hong Kong. Around 150 delegates joined the two-day conference, during which speakers from the People’s Republic of China and other countries discussed various topics related to oral health in the military context and the challenges that military dentistry faces. Among others, they reported on disaster relief and management, forensic dentistry, oral pathology, endodontics, management of dental service delivery, oral and maxillofacial treatment and computer-assisted design.

“Military forces throughout the world are becoming more technologically advanced and military dental services are now better placed to manage oral health in the military environment,” Col. Andrew Gray, New Zealand Director of Defence Dental Services, told WorldDental Daily.

In 2004, the SDPDS today consists of representatives from the USA, China, Australia, New Zealand and South Africa. Its task is to provide a world forum for the exchange of ideas, innovations and concepts within the area of dental services in the defence forces.

Dental officers gathered in Hong Kong

PRC officials visit AWDC

Health minister to receive award today

The FDI Annual World Dental Congress will see visits by high-ranking health officials from the People’s Republic of China during the next two days. This afternoon, Minister of Health Zhu Chen will receive the FDI’s first Inaugural World Oral Health Recognition Award during this year’s welcome ceremony. Fifty-nine-year-old Chen, who is also a professor at Jiao Tong University’s School of Medicine in Shanghai, among other things, was selected for his contributions to the development of dentistry in China.

WorldDental Daily has also learnt that the Deputy Director-General of the ministry’s Center for Disease Control and Prevention, Dr. Lingzhi Kang, will be giving a presentation on the oral health situation in China during a special session open to the public tomorrow from 11:30 in room 5424. Simultaneous interpreting into English will be provided. Read more about this in the 31 August edition of WorldDental Daily.

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NCDs—A major obstacle to socio-economic development

By Dr Martin Gillis, Canada

In September 2011, a UN High-level Meeting on Noncommunicable Diseases (NCDs) was held in New York City. This was a watered-down moment in the global fight against NCDs with the adoption of the Political Declaration on NCDs by UN member states, meaning that all nations must take action against this global epidemic. The four principal NCDs, cardiovascular disease, cancer, diabetes and respiratory diseases, accounted for 60% of all deaths globally and 80% of deaths in low- and middle-income countries in 2005. The WHO projects that deaths attributed to NCDs will rise globally by 17% by 2025.

There are four primary risk factors that fuel the rising incidence of NCDs: tobacco use, alcohol abuse, poor nutrition and physical inactivity. Disease prevention and control focused on minimising public exposure to such risk is vital to reversing the rising tide of NCDs. If this is not done, NCDs will continue to be a major obstacle to socio-economic development and a barrier to the achievement of the Millennium Development Goals and the Post-2015 UN development agenda.

Oral disease, the most common NCD and one of the most expensive to treat, is a global public health concern. The political declaration notes that oral diseases “share common risk factors and can benefit from common responses”. Therefore, interventions and strategies to improve nutrition should have a positive impact on all NCDs, including the prevention and control of oral disease. The UN knows how to deal with NCDs; it is a matter of taking action by operationalising existing plans such as the WHO Global Strategy on Diet, Physical Activity and Health, and utilising processes and structures such as the WHO Innovative Care for Chronic Conditions Framework.

The WHO will be the lead agency implementing prevention and control measures for NCDs; however, progress will require a multifaceted approach from multiple sectors. In terms of nutrition, concerted action with other UN agencies and subsidiaries such as the Food and Agriculture Organization of the United Nations and the Codex Alimentarius Commission, and partnerships with external agencies, including global NGOs such as the FDI World Dental Federation and the International Diabetes Federation (IDF), is needed. Diets comprised of processed foods with high fat, salt, and sugar content are common lifestyle choices in today’s society. Improving nutrition will require governments to mandate legislation and regulation reflective of the health in all policies; a philosophical shift in the agrifood industry to provide affordable, healthy food; health-care providers to educate and facilitate behaviour change in the public they serve; and all of society to engage in healthy lifestyle practices.

By Dr Songtao Shi, USA

Mesenchymal stem cells: From clinics to bench and back

By Dr Songtao Shi

Dr Martin Gillis is a researcher at Dalhousie University’s Faculty of Dentistry in Halifax, Canada, and a member of IDF’s Consultative Section on Diabetes Education. He also serves as the oral health representative for IDF. Today, he will be presenting a paper entitled “Price: A risk factor driving the NCD epidemic” as part of the scientific programme at this year’s congress in room S221 of the HKCEC.

Dr Martin Gillis is an assistant professor at the Dalhousie University’s Faculty of Dentistry. He also serves as the dental liaison for the United Nations and the Codex Alimentarius Commission, and partner- ships with external agencies, including the International Dental Federation (IDF), is needed. Diets comprised of processed foods with high fat, salt, and sugar content are common lifestyle choices in today’s society. Improving nutrition will require governments to mandate legislation and regulation reflective of the health in all policies; a philosophical shift in the agrifood industry to provide affordable, healthy food; health-care providers to educate and facilitate behaviour change in the public they serve; and all of society to engage in healthy lifestyle practices.

By Dr Songtao Shi, USA

Mesenchymal stem cells (MSCs) are a population of hierarchically postnatal stem cells with the potential to differentiate into mesodermal lineage-derived cells, including osteoblasts, chondrocytes, adipocytes, cardiomyocytes, myoblasts and non-mesodermal lineage-derived cells, such as neural cells. They are promising a source for regenerative medicine in terms of forming mineralised tissue to replace damaged and diseased tissue.

The orofacial region contains multiple lineages, including bone marrow-derived MSCs (BM-MSCs), dental pulp stem cells, periodontal ligament stem cells (PDLSCs), stem cells from human exfoliated deciduous teeth, stem cells from root apical papilla, and gingival stem/progenitor cells. Our team of researchers at the University of Southern California has identified that PDLSCs can be used successfully to treat periodontitis with regeneration of cementum and Sharpey’s fibres in swine and humans.

More interestingly, we used orofacial MSCs to regenerate root/periodontal complex that are capable of supporting artificial porcelain crowns, resulting in restoration of natural tooth function in swine. We were also able to generate jaw osteonectin in mice and employed BM-MSC implantation to treat the necrosis, suggesting a novel thera-

Funding: This work was supported by NIH grant DE019173. The authors declare no conflicts of interest.

[References]

1. Martin Gillis, Canada. Presentation at the 100th FDI World Dental Congress, September 2011.

2. Songtao Shi, USA. Presentation at the 100th FDI World Dental Congress, September 2011.

By Dr Songtao Shi, USA

Conversely, reduction of IFN-γ and TNF-α levels at the implantation sites by systemic infusion of Foxp3+ regulatory T cells markedly improved BM-MSC-based bone regeneration and calvarial defect repair in CYR66 mice. For potential pharmacological intervention, we demonstrated that local administration of aspirin reduced levels of IFN-γ and TNF-α at the implantation site and significantly reduced BM-MSC-based calvarial defect repair.

These results collectively uncover a previously unrecognised role of regenerative tissue in BM-MSC-based tissue engineering and suggest a practical approach to enhancing bone regeneration by pharmacological control of local cytokines.

MSC-based immunotherapy has demonstrated successful outcomes in several human diseases and preclinical disease models, including acute graft-versus-host disease, systemic lupus erythematosus and SLE. The promising results of such therapeutic effects have led to exploration of the underlying mechanisms. It has been shown that MSCs, including orofacial tissue-derived MSCs, target lymphocytes through several soluble factors, such as transforming growth factor-beta, the TNF family member 1, tissue inhibitor of metalloproteinase-1, and the Fas/FasL pathway. The immunomodulatory properties of MSCs also play an important role in treating immune-related oral diseases, such as treatment of oral lichen planus and oral lichenoid eruption.

Our and others’ studies indicate the great potential for using MSCs to treat a variety of disorders and to regenerate functional mineralised tissue.

Dr Songtao Shi is an associate professor at the University of Southern California’s Center for Craniofacial Molecular Biology in Los Angeles, CA, US. This afternoon, he will be presenting a paper on MSCs as part of the scientific programme at this year’s congress in Hall F of the HKCEC.

By Dr Songtao Shi

Identified by tissue-derived MSCs, target lymphocytes through several soluble factors, such as transforming growth factor-beta, the TNF family member 1, tissue inhibitor of metalloproteinase-1, and the Fas/FasL pathway. The immunomodulatory properties of MSCs also play an important role in treating immune-related oral diseases, such as treatment of oral lichen planus and oral lichenoid eruption.
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The ability to examine the craniofacial anatomy with help of three-dimensional images obtained through Cone Beam Computerized Tomography (CBCT) has been praised as the new gold standard in oral surgery. Worldental Daily had the opportunity to speak with Prof. Stefan Haßfeld from the University of Dortmund’s Department of Oral and Cranio-Maxillofacial Surgery in Germany, who will be presenting an afternoon session on CBCT in Hall F this Wednesday about the technology and its future potential.

Worldental Daily: Prof. Haßfeld, in your opinion, has CBCT become a standard in dentistry?

Prof. Stefan Haßfeld: CBCT has been available in dentistry for over a decade and since then has been established as a standard for many indications. Despite this development, I doubt that the technology will make traditional imaging obsolete any time soon. Instead, it will be used as an aid in more complex treatments.

One of the areas in which CBCT is used is implant treatment planning. What are the other main areas of application?

Nowadays, the technology is widely used in complex oral and maxillofacial surgery procedures. For example, we regularly examine large cysts and deeply impacted third molars with CBCT. Its use can also be of benefit for the diagnosis of maxillary sinus diseases, as well as in traumatology or the correction of anomalies and dysgnathias.

What potential does the technology offer regarding the improvement of treatment outcomes?

In contrast to traditional imaging, CBCT allows the human anatomy and pathology to be assessed in detail in 3-D space. This can be extremely helpful for treatment planning and the assessment of regions that present a surgical risk, like adjacent nerves, teeth or blood vessels.

In many cases, we expect a significant reduction in operative risks and an improvement in surgical planning.

According to the industry, the radiation dose for patients is significantly lower with CBCT. Do you agree with this statement?

I would have to disagree, since compared with traditional imaging, CBCT usually has a higher radiation dose. However, it also yields completely different information. By taking a high number of single images from different angles, CBCT can provide lower radiation doses only in a few exceptional cases.

Is this the only drawback compared with traditional imaging techniques?

As CBCT has another field of indications, comparison with traditional imaging techniques is not appropriate. However, there are indeed some shortcomings, like higher radiation doses and costs, as well as a lower resolution compared with dental film.

What role will CBCT play in dental practices in the future?

CBCT will take root in dental practices, particularly in those with emphasis on surgery, when it comes to certain complex treatment issues.

For all the mentioned reasons, traditional imaging methods will not disappear. A panoramic X-ray image, for example, provides an excellent overview of the entire jaw arch for clinically oriented examinations, with only little effort and at a small radiation dose.

Dental film still offers the highest resolution for viewing details. Rather, the establishment of CBCT for dental imaging offers us additional options for daily practice.

Thank you very much for this interview.
With SOPROLIFE®, diagnose occlusal or interproximal caries... differentiate with outstanding accuracy healthy tissue from infected tissue, so as to excavate only the decayed area.

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Promedica has one of its first class composites on display that is supposed to meet highest aesthetic requirements through its perfect adaptation to the natural tooth colour and tooth like brilliance of the final filling. The light-curing micro hybrid composite Composan LCM combines a high filler content with a well-balanced resin matrix for excellent properties such as minimal abrasion, low polymerisation shrinkage as well as high compressive and transverse strength. According to the German company, it also convinces by its easy handling as well as optimal polishing properties. In combination with Composond, the adhesion of Composan LCM to dentine and enamel is extraordinary - strong thus sealing off the cavity margin, it said.

Composan LCM can be used in both anterior and posterior areas, as well as for inlay and onlay techniques. It is available as a flowable version Composan LCM flow that is indicated for minimal invasive preparation, fillings of class III to V, extended fissure sealing etc. Composan LCM flow is an ideal lining material under composites and easy to apply directly from the syringe, according to the company. It is said to adapt perfectly to the cavity walls and reinforce the bonding layer and blocks out all kinds of irregularities of the cavity floor. Owing to its elastic properties Composan LCM flow is also highly stress absorbing.

PROMEDICA, GERMANY
www.promedica.de
Booth K25

At the FDI Annual World Dental Congress, the German dental company Dürr is presenting the new generation of its successful compressor series to dental professionals in Asia. First introduced at IDS Cologne in 2011, both the Tornado 1 and 2 are said to be robust, ultrasilent and economical while offering the same advantages as the first generation including a compact design and compressed air of the highest quality.

According to Dürr, the new model uses 15 per cent less energy than its predecessor. It’s improved design recently awarded a winner of the red dot design award 2011, and lower noise level makes it more adaptable to dental offices. The devices can be used for up to three operatories. An antibacterial coating based on nanotechnology on the inside of the tank is supposed to ensure the highest level of hygiene. Both versions also benefit from an optional membrane-drying unit that provides constant dry air and practically zero regeneration time which make the compressors especially suited for for heavy-duty conditions. Since the compression performance is more effectively exploited through the membrane-drying unit, the equipment can be operated 24 hours a day, the company said.

The output voltage of the Tornado compressors can be adapted to different power supplies.

DÜRR DENTAL, GERMANY
www.duerrdental.de/en
Booth H20/J19

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With AIR-N-GO, the French Acteon Group aims to increase the possibilities of dental clinicians for care and treatment with one single handpiece. The dual purpose air polisher with direct connection to the chair was designed for ultra-active supra-gingival polishing as well as sub-gingival periodontal diseases and peri-implantitis treatment. According to the manufacturer, it instantly converts into a perio system through an optional AIR-N-GO PERIO Kit comprising an ultra-fine PERIO nozzle, green PERIO powder tank and glycine-based PERIO powder. Available as seven different powders, the AIR-N-GO powder product range is said to provide gentle care, effective prophylaxis and subgingival treatments. The unique grain structure of each powder allows for efficient as well as painless polishing and cleaning with no damage to teeth or implants, the company said.

ACTEON GROUP, FRANCE
www.acteongroup.com
www.airngoconcept.com
Booth L16/M17

W&H’s new Proface light probe is supposed to enable direct visual detection of caries in opened cavities and minimise the risk of caries recurrence.

According to the Austrian company, it enables selective treatment during caries excavation based on Fluorescence Aided Caries Excavation (FACE).

This method works in the way that violet light is applied to the opened cavity where porphyrins, metabolic by-products left by the bacteria in infected dentine and not visible to the human eye, fluoresce red while healthy tooth substance fluoresce green.

Diagnostic goggles with special filters also enhance this effect, the company said.

With Proface, dentists will also have more information in regard to treatment decisions in Caries Profunda.

Access to the treatment site is optimised by the probe’s new slender design which was developed to guarantees flexible and painless application. W&H said that with Proface success of caries excavation can be assessed at a glance and at any stage of the process.

By assisting dentists with selective, minimally invasive excavating, it substantially contributes to maintaining the patient’s healthy tooth substance, they added.

W&H, AUSTRIA
www.wh.com
Booth G22/G26

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COMMITTED TO SIMPLY DOING MORE FOR DENTAL PROFESSIONALS
Whip Mix has announced the market launch of its Denar Mark 300 articulators for use in orthodontic therapy. The new series consists of three models (Mark 310, Mark 320, and Mark 330) and is supposed to bring a new standard of interchangeability with factory set accuracy within 20 microns. According to Whip Mix, the Mark 300 articulators have a sleek design and contemporary look that is aesthetically pleasing and durable at the same time. While all models of the series feature fixed settings, the Mark 320 is semi-adjustable with fixed progressive.

Besides new articulators, Whip Mix has also its Esthetic CrossFit centered bite record as well as its UltiRock Premium Die Stone on display. Based in Louisville, KY. In the USA and Dortmund in Germany, the company has been manufacturing and distributing products for dental practices and laboratories since 1919.

The Straumann Dental Implant System includes the new generation Bone Level Implant which is now available all over Asia, including China, Taiwan and Japan. According to the company, these new implants, developed in close collaboration with internationally renowned experts and confirmed through clinical studies, combine new and innovative concepts with well-documented design elements to provide dental professionals with aesthetic flexibility.

Bone Level Implants feature Straumann’s novel Bone Control Design, a concept which follows the five fundamental biological principles to optimise bone preservation and stabilising soft tissue. While the SLActive implant surface offers unparalleled implant surface osteoconductivity, the conical implant-abutment connection provides a strong and tight joint in all cases of loading. In addition, the biomechanical design of the implant and thread optimises the transmission of the chewing forces to the bone, provide high primary stability and make the basis for crestal bone preservation, Straumann said.

The biological distance is respected by the horizontal distance between the microgap and the bone. Moreover, the transition of the rough to the smooth surface is optimally positioned at the level of the crestal bone to provide the maximum surface for osseointegration and soft tissue growth.

The Straumann Bone Level Implant is available in three endosteal diameters and four lengths and comes with a comprehensive prosthetic portfolio. According to the company, they can be placed with the same surgical kit and procedure as the other implants in the company’s current range, thus providing even greater flexibility, broader treatment options and higher reliability.
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With Posicaine, the Canadian company, Novocol, presents a local dental anaesthesia that can be used in both routine (Posicaine 200, Articaine with Epinephrine 1:200,000) and complex procedures (Posicaine 100, Articaine with Epinephrine 1:100,000) when improved visualization of the surgical field is needed. According to Novocol, its formula offers predictable anaesthesia of 60 minutes for infiltration injections and 120 minutes for nerve blocks. Posicaine does not contain methylparaben or latex in order to avoid allergic responses from patients that are sensitive to these compounds. Dental clinicians benefit from the neutral Mylar label color-coded glass cartridges by minimizing the risk of wounds in case of cartridge breakage during use. Additionally, the glass cartridges are siliconised to allow for smoother injections.

NOVOCOL, CANADA
www.novocol.com
Booth E02/04

On display in Hong Kong is the company’s ProfiLax3 polishers and brushes system, available in three hardnesses. While the soft pink coloured brushes are supposed to simplify prophylaxis for sensitive patients and clean compromised teeth and gingiva gently, the stiffer yellow brushes are ideal for fast and accurate removal of temporary cements before finally fixing the crowns and bridges.

The fibres of NTI’s composite polishing brushes are impregnated with silicon carbide polishing particles for creating a perfect lustre finish on occlusal surfaces.

NTI-KAHLA, GERMANY
www.nti.de
Booth H16/18

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NTI product news

NTI FlexiPol

NTI’s composite polishing brushes are impregnated with silicon carbide polishing particles for creating a perfect lustre finish on occlusal surfaces. FlexiPol are highly flexible polishing discs developed for the purpose of producing a natural lustre on all nanohybrid and standard composites. Its 1 mm thick core is made of silicone in order to prevent the mandrel coming into contact with the polished surface. This avoids damage or discolouration of teeth, composites and gingiva. According to the company, the discs are available in four grit sizes.

NTI-KAHLA, GERMANY
www.nti.de
Booth H06/s8
Premier Dental’s newest non-eugenol resin cement was designed for implant-retained crowns. According to the US company, it is also suitable for temporary cementation of provisional restorations where long-term or increased retention is desired.

Made from a tough elastomeric resin, the material is said to provide secure retention and an excellent marginal seal. Because the retention is mechanical, the crown can be removed for adjustments or periodontal treatment without destroying the restoration, Premier said.

Premier has announced to have a number of other innovative products on display in Hong Kong. In addition to dental materials, the company offers practice hygiene products, instruments for different dental procedures, as well as cosmetic solutions like teeth whitening kits.

NOMAD Handheld X-ray

When US manufacturer Aribex introduced the first handheld dental X-ray system in 2005, the aim was to create an inherently safe X-ray device that could be held during radiograph exposure. Two models exist that are available to clinicians around the world (varies by jurisdiction).

NOMAD Dental weighs 4 kg and features a pistol-grip design, with rechargeable NiCd battery. It generates sharp, clear images with digital sensors, conventional film, or phosphor plate systems.

The next generation NOMAD Pro, available since 2008, weighs only 2.5 kg and has a rechargeable Li-poly battery in the handle. It also features a full colour LCD user interface, preset exposure settings, and additional time-saving features in a sleek design. Each model is capable of taking hundreds of diagnostic-quality radiographs with a single charge.

According to Aribex, the NOMAD allows the operator to remain chairside with the patient during radiography. With the handheld X-ray system, not only can the operator stay in the room, they can also reassure anxious patients (including children). This makes the device a first choice for the treatment of special needs or sedated patients. It also shortens procedure time and reduces mistakes and retakes, the company said.

More than 30 independent evaluations and scientific studies have concluded the Aribex systems are both effective and safe — made possible by patented shielding on the X-ray source and the leaded acrylic backscatter shield on the collimator cone, which protects the operator from reflected radiation.

“The NOMAD has forever changed the way that dental radiography is performed,” said Dr Clark Turner, Aribex founder and CEO. “With over 10,000 units now currently in use, it has become a staple in dental operations everywhere.”

ARIBEX, USA
www.aribex.com

TWL DENTAL
Booth E13

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<td>3M Hong Kong Ltd.</td>
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<td>North Hanan Anyang City Dental Material Limited Company</td>
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FDI connects with the future of dental medicine

FDI Global Caries Initiative

"Leading the World to Optimal Oral Health"

www.GlobalCariesInitiative.org

Connect with the future: visit booth K29

FDI's Global Caries Initiative (GCI), launched in 2009, seeks to unite a broad alliance of key influencers and decision makers behind a common goal: to effect fundamental change in health systems and individual behaviour to realize the overarching vision to stop caries by 2020.

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www.fdiworldental.org
SHOFU’s new Beautifil Injectable wants you to inject beauty and strength into your restoration. This universal direct aesthetic restorative has a novel resin micro-structure that was developed to impart superior mechanical properties for improved performance even in load bearing areas. According to the company, the paste offers ideal viscosity and a non-tacky, non-droopy consistency, so that restorations can be easily shaped as clinicians extrude the material from the syringe.

By optimising the filler-matrix complex, Beautifil Injectable controls light diffusion within in order to mimic the optical characteristics of natural teeth, the company said. With inherent natural aesthetics, fluorescence and opalescence, they said this restorative is intended to carve a niche in direct cosmetic dentistry by creating indiscernible restorations. As a member of the successful Giomer product family, Beautifil Injectable also contains S-PRG fillers to provide continuous fluoride protection and unique anti-plaque effect.

The material is available in 2.2 gram syringes with disposable needle tips for cross infection control. The syringe delivery allows the paste to be injected conveniently by the clinician into the restoration site for reduced instrumentation and a shorter working time.

SHOFU INC., SINGAPORE
www.shofu.com.sg
Booth B12/C13

For more than four decades, Abrasive Technology has been recognised as one of the world’s leading manufacturers of super-abrasive grinding wheels and tools but perhaps nothing defines the company’s commitment to precision more than its dental products—most notably its Two Striper diamond dental instruments. In fact, the company says to have taken extra steps to ensure that these products are not only safer, but better balanced and easier to use.

AT’s founders developed a unique diamond bonding process called P.B.S. that makes it possible to manufacture grinding tools that are superior to other products on the market, the company said. The process is said to increase productivity and part consistency simply because it will last longer, cut faster, run cooler and load less.

According to the company, the process is one of the most effective and innovative bonding processes in the industry. It’s a science that the company said to have helped to transform itself—and a craft that it’s working every day to perfect.

Through continuous innovation, product development and enhancement, Abrasive Technology aims to meet the most demanding specifications and solve the most challenging applications. From disks and trimming wheels to instruments and files, its dental products epitomise high quality, attention to detail and superior craftsmanship and makes them a number one choice in the industry.

For more information about the company’s line of products, FDI visitors are invited to a Dental Tribune Study Club Symposium session at booth K30 inside the exhibition hall.

ABRASIVE TECHNOLOGY, USA
www.abrasive-tech.com
Booth K31
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There is probably no other date in Hong Kong’s recent history as significant as 1 July. On a stormy Tuesday night back in 1997, millions of people took to the streets in unprecedented celebrations when the People’s Republic of China finally took over control of the territory after 156 years of British rule.

While the handover was considered a fresh start by many Hong Kongers, it definitely marked Britain’s final act as a colonial superpower. In the joint declaration signed with China already in 1984, however, both parties had agreed to leave the colony’s existing economic system untouched for another 50 years. Owing to this component of the Sino-British declaration, Hong Kong was able to become the economic powerhouse we know today.

With a populace of slightly over seven million people, the former colony now produces a gross domestic product higher than those of states like Denmark and Portugal. It is also considered one of the most important international financial centres. According to global management consulting firm McKinsey, its stock exchange, already among the world’s top ten when it comes to capitalisation, attracted the most capital in the world for the second consecutive year in 2011. While the government recently had to cut growth forecasts owing to the global economic slowdown, consumption in the city remained stable owing to a sound job sector and increases in income.

Similar to its economic success, the city has transformed itself into a first-class travel destination, making tourism a major source of income. Boosted by attractions like Hong Kong Disneyland, which was opened in 2005, and major events like the recently held International Dragon Boat Championships, it sees 42 million visitor arrivals per year, a number currently only exceeded throughout the Asia Pacific region by Malaysia and mainland China.

“These results certainly underline Hong Kong’s status as a preferred international travel destination and as Asia’s world city,” said James Tien, Chairman of the Hong Kong Tourism Board, in August. “We have already planned the launch of a series of mega events in the coming months to...

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Further enhance Hong Kong’s appeal and provide our tourist partners with different business platforms.” According to Tien, highlights this year will include the Hong Kong Mid-Autumn Festival, which will take place in September/October and will see a giant lantern erected at Victoria Park on Hong Kong Island, among other things.

Owing to increasing competition from Hong Kong’s greater brother in the North and countries like Taiwan, the board which operates under the HK government, already began strategising Hong Kong’s development as a tourist destination in the late 1990s. As a first step, travel restrictions within China were eased through the Individual Visit Scheme almost a decade ago. Since then, travel between mainland China and Hong Kong has skyrocketed to over 15 million visitors per year.

Funding for the Mega Events Fund has also recently been extended until 2014. The financial assistance scheme, worth hundreds of millions of HK dollars, was established in 2009 in order to give non-profit organisations the means to host their meetings and events in Hong Kong.

As well as its large share of Chinese visitors, the city attracts millions of visitors from around the globe, of which many have decided to stay. Therefore, the city’s cultural and culinary scenes are diverse as in any other major city in the world. With two 3-star and seven 2-star restaurants, Hong Kong now offers greater culinary excellence than London or San Francisco. Just last month, two Michelin-starred French-Italian chef Philippe Leveille announced the opening of a new Italian restaurant called L’Altro in the Central District.

Hong Kong is also the third largest art market after the US and China, drawing thousands of visitors to its International Art Fair held every year in May.

Despite its receptiveness to foreign influences, however, the city has never forgotten its Chinese roots, which will become important in 2047, when Hong Kong’s guaranteed autonomy expires. Although relations with the motherland are close, observers are questioning whether the city, which is largely dependent on trade, can maintain its economic vitality over the next 30 years alongside a prospering China.

Until then, at least Hong Kong is likely to remain Asia’s premier global destination.

The Hong Kong Tourism Board provides more information on city tours, sights and events. Its main visitor centres are located at the airport (arrivals level, Terminal 1) and at the Peak Piazza (between The Peak Tower and The Peak Galleria).

RESOURCES
www.discoverhongkong.com
www.timeout.com.hk
www.lonelyplanet.com/china/hong-kong
travel.nytimes.com/travel/guides/asia/china/hong-kong
www.fodors.com/world/asia/china/hong-kong
www.diarygrowingboy.com (HK food blog)
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**FDI SOCIAL PROGRAMME**

**WELCOME CEREMONY**
The welcome ceremony is a not-to-miss event at every FDI Annual World Dental Congress. Not only does it mark the official start of the congress, but it also gives the host city the opportunity to present itself in the best possible way. The organisers of this year’s event have arranged a unique performance that will reflect Hong Kong’s diverse traditions, as well as its rich culture and history.

The ceremony will be held today from 18:30 to 20:00 in the Grand Hall on Level 3 of the HKCEC. Admission starts at 17:45 and is free for registered congress participants.

**EXHIBITION**

**LES LUMIÈRES IMAGINAIRES**
COLLECTIVE LIGHTING INSTALLATIONS
Venue: Agnès B.’s LIBRAIRIE GALERIE, daily from 11:30 to 20:00
www.frenchmay.com

As part of Le French May, an annual art festival organised by the Consulate General of France in collaboration with the Alliance Française and supported by the Leisure and Cultural Services Department of Hong Kong, this exhibition by stage designer and media artist Chi-Yung Wong transports visitors to a place separated from the real world. His latest work is a unique mix of light and music written by contemporary French and HK artists. Visitors can immerse themselves in this visual wonderland until Saturday, 1 September. Admission to the installation is free.

**FILM**

**HIDDEN AGENDA THE MOVIE**
Venue: Hidden Agenda Live House, 20:00
hiddenagenda.hk

The Hidden Agenda Live House is former band-practice room in the Kwun Tong district that in 2009 was transformed by a couple of post-80s music lovers into a place for live indie music. Today, it is a hot spot for local and foreign bands alike. This documentary film, part of the 2012 Venice Architecture Biennale Hong Kong Exhibition, tells the short but eventful story of this venue, which was twice evacuated by the Hong Kong government. After the screening, there will be special performances.

**MUSIC AND THEATRE**

**“THE DEITY NA CHA”, CANTONESE OPERA PERFORMANCE**
Venue: You Mo Tai Theatre, 19:30
www.lcsd.gov.hk

The historical building in which the theatre is housed is the only remaining pre-World War II theatre in Kowloon and in the past it screened erotic films during financially difficult times. Having undergone significant renovations since 1996, the building at the junction of Waterloo Road and Reclamation Street now hosts a modern 300-seat auditorium designed solely for Cantonese opera. Tonight’s performance is based on an ancient Chinese legend about a man who tangles with the gods and sacrifices himself for the common man, and is then resurrected as an immortal being.
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**WEDNESDAY, AUGUST 29**

11.00 A.M. ABRASIVE TECHNOLOGY 'PRECISION TOOLS - WHERE YOU NEED THEM MOST' SABINE NAHME

12.00 P.M. CHANGING THE FACE OF DENTISTRY MYLES HOLT
DIRECTOR OF THE AUSTRALIAN ACADEMY OF DENTO-FACIAL AESTHETICS (AADFA)

13.00 P.M. GLOBAL ORAL HEALTH PROJECT DR. PETER COONEY

14.00 P.M. CBCT IN AND TRADITIONAL X-RAY OUT? DR. DAN MCOWEN
ICBI DIRECTOR OF EDUCATION

15.00 P.M. SUCCESS FACTORS IN DENTAL OFFICES: EFFICIENT TREATMENT PROTOCOLS PASCAL STEICHEN PRACTICE MANAGEMENT EXPERT

**THURSDAY, AUGUST 30**

11.00 A.M. OVERVIEW AND COMPARISON OF CLINICAL AND DIAGNOSTIC ASPECTS IN VOLUME TOMOGRAPHY DR. DAN MCOWEN
ICBI DIRECTOR OF EDUCATION

12.00 P.M. GCI: "HOW TO PREVENT CARIES IN THE DENTAL PRACTICE" PROF. ELMAR REICH

13.00 P.M. ABRASIVE TECHNOLOGY 'PRECISION TOOLS - WHERE YOU NEED THEM MOST' SABINE NAHME

14.00 P.M. SUCCESS FACTORS IN DENTAL OFFICES: EFFICIENT MARKETING AND COMMUNICATIONS PASCAL STEICHEN PRACTICE MANAGEMENT EXPERT

15.00 P.M. GCI: THE FDI CARIES MATRIX DR. ANNEMARIE A. SCHULLER

**FRIDAY, AUGUST 31**

11.00 A.M. ABRASIVE TECHNOLOGY 'PRECISION TOOLS - WHERE YOU NEED THEM MOST' SABINE NAHME

12.00 P.M. CHANGING THE FACE OF DENTISTRY MYLES HOLT
DIRECTOR OF THE AUSTRALIAN ACADEMY OF DENTO-FACIAL AESTHETICS (AADFA)

13.00 P.M. CBCT IN AND TRADITIONAL X-RAY OUT? DR. DAN MCOWEN
ICBI DIRECTOR OF EDUCATION

14.00 P.M. SUCCESS FACTORS IN DENTAL OFFICES: EFFICIENT PRACTICE MANAGEMENT PASCAL STEICHEN PRACTICE MANAGEMENT EXPERT

15.00 P.M. ABRASIVE TECHNOLOGY 'PRECISION TOOLS - WHERE YOU NEED THEM MOST' SABINE NAHME

**SATURDAY, SEPTEMBER 1**

11.00 A.M. SUCCESS FACTORS IN DENTAL OFFICES: EFFICIENT STAFF MANAGEMENT PASCAL STEICHEN PRACTICE MANAGEMENT EXPERT

12.00 P.M. CURRENT ORTHODONTIC PRACTICE: RME OR SME, NEW DEVELOPMENTS IN EXPANSION OF THE PALATE, FOR THE GENERAL DENTAL PRACTITIONER DR. DEREK MAHONY

13.00 P.M. CBCT IN AND TRADITIONAL X-RAY OUT? DR. DAN MCOWEN
ICBI DIRECTOR OF EDUCATION

14.00 P.M. GCI: TRANSFERRING KNOWLEDGE INTO ACTION - CONTINUING EDUCATION FOR DENTAL PRACTITIONERS NERMIN YAMALI FACULTY OF DENTISTRY OF UNIVERSITY OF ANKARA, TURKEY

15.00 P.M. SUCCESS FACTORS IN DENTAL OFFICES: EFFICIENT TREATMENT PROTOCOLS PASCAL STEICHEN PRACTICE MANAGEMENT EXPERT
**Useful Information**

**Organisers**

FDI WORLD DENTAL FEDERATION

(Booth K16/125)

Tour de Cointrin

Avenue Louis Casaï 84

Case Postale 1

1216 Genève-Cointrin

SWITZERLAND

HONG KONG DENTAL ASSOCIATION

8/F., Duke of Windsor

Social Service Building

15 Hennessy Rd., Wanchai

HONG KONG

**Congress Venue**

HONG KONG CONVENTION AND EXHIBITION CENTRE

1 Expo Drive, Wanchai

Hong Kong

**Exhibition Hours**

- **Wednesday, 29 August:** 10:00 – 18:00
- **Thursday, 30 August:** 10:00 – 18:00
- **Friday, 31 August:** 10:00 – 18:00
- **Saturday, 1 September:** 10:00 – 16:00

Visitors’ access is absolutely free.

**Congress Registration**

Onsite registration is possible from Tuesday, 28 August, to Saturday, 1 September, 7:00 – 18:00. Fees range from CHF330 (US$337) and CHF600 (US$613).

**FDI Pavilion**

At booth K16/125, in the exhibition hall, visitors will be able to find more information about the FDI, its 112-year history, as well as its diverse programs and activities.

**Official Languages of the Congress**

- English
- Mandarin (specific sessions only)

**CERP**

Delegates who have registered for the congress are eligible to receive continuing education points (20 points maximum) by attending scientific sessions during the meeting.

**Press and Media**

Free copies of the WorldDental Daily congress newspaper will be available onsite and provide visitors with the latest news, as well as information about the congress, new products and what to do in Hong Kong.

**Embassies and Consulates**

Foreign representation offices can provide help in emergencies like lost passports. They can also assist with travel arrangements or give legal advice.

- **Australian Consulate-General**
  23/F Harbour Centre, 25 Harbour Road, Phone: +852.2827.8881
- **British Consulate General**
  1 Supreme Court Road, Phone: +852.2901.3000
- **Consulate General of Canada/Consulat Général du Canada**
  12th to 14th Floor, One Exchange Square Central, Phone: +852.3719.4700
- **Deutsches Generalkonsulat**
  21/F, United Centre, 95 Queensway, Admiralty, Phone: +852.2105.8788

**Emergency Numbers**

- Police, fire, ambulance: 999
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