

DENTAL TRIBUNE

The World's Dental Newspaper • Asia Pacific Edition

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Heraeus acquisition

An interview with Minoru Koshibe, Mutsui Chemicals

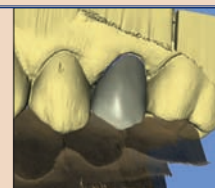
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The singing dentist

Dental student Hafiz Zainal on his YouTube career

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Lab Tribune

News & trends from the field of dental CAD/CAM

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Thailand wins bid for FDI Annual World Dental Congress, 2015 edition to be held in Bangkok

DT Asia Pacific

ISTANBUL, Turkey: For the third time in five years, the Annual World Dental Congress of the FDI World Dental Federation will be held in an Asian country. An agreement between the Geneva-based dentists' organisation and the Dental Association of Thailand (DTA) to organise the 2015 congress in Bangkok was signed recently at the 2013 FDI AWDC in the Turkish capital of Istanbul, *Dental Tribune Asia Pacific* has learned.

It will be the first time that the South-East Asian country will host the prestigious international dental event. According to DTA President Dr Adirek S. Wongsas, who spoke to *Dental Tribune* briefly in Istanbul, his organisation has bid to host the congress in Thailand each year since 1999. It will be a unique event that will not only highlight the rapid development of dentistry in Thailand, but also bring all professions in dentistry together, he said. Preparations have already commenced and more information



The FDI and the Dental Association of Thailand will organise the 2015 congress in collaboration. (Photo: Serban Veres, DTT)

will be released in the upcoming months.

The congress in Bangkok will follow the 2014 edition, which is being organised by the Indian Dental Association and hosted in New Delhi. The organisation's most recent congresses in Asia were held in Hong Kong and

Singapore. The Korean Dental Association won the bid to organise this year's congress in Seoul in South Korea but the event there was cancelled, and hosted instead by the Turkish Dental Association last month in Istanbul.

The DTA is organising its own annual dental event, the Thai-

land International Dental Congress, to be held in November this year.

According to Wongsas, the event attracts around 3,000 dental professionals each year. The Kingdom of Thailand currently has a workforce of 12,000 dentists. **DT**

Teeth grown from urine

A team of Chinese researchers has managed to engineer tooth-like structures from human urine induced stem cells, which could be used to regenerate patient-specific dental tissue or even whole teeth. They used nine distinct lines of pluripotent stem cells derived from the urine cells of three donors. Combined with dental mesenchyme, these cells were then transplanted into mice. After three weeks, the researchers observed the formation of tooth-like structures possessing the properties of human teeth. Overall, they reported a 30 per cent success rate for tooth regeneration.

Adult dental stem cells have been used in tissue engineering research successfully. However, the absence of consistent sources of dental epithelial stem cells with odontogenic potential in adults is a major limiting factor of tooth regeneration from those cells. Thus, autogenic pluripotent stem cells induced from human urine could be a viable alternative. In the future, bioengineered tooth germs created from stem cells could be cultured in vitro and transplanted into a patient's jawbone to form a fully functional tooth, they said. **DT**



Dr Robert R. Edwabs, USA, greeted by members of the Indian Dental Association during a lunch reception at the FDI Congress in Turkey last month. The IDA will host the next annual congress of the organisation in 2014. (DT/Photo Daniel Zimmermann)

More people hospitalised

Hospitalisations due to preventable oral infections may be on the rise. Reviewing national patient data, US researchers have found that the number of people hospitalised for dental abscesses, a common consequence of untreated tooth decay, has increased significantly over the last decade. **DT**

Sleep apnoea linked to glaucoma

A study in Taiwan has shown that sleep apnoea is associated with the risk of developing glaucoma, one of the main causes of blindness. Overall, 1.67 times more participants with obstructive sleep apnoea developed open-angle glaucoma within five years compared with controls, according to the report. **DT**

Dental Tribune expands to Israel

With its new Israeli partner, the Dental Tribune International Group will soon be providing dentists with the latest news from the region and worldwide in Hebrew. The Dental Tribune Israel office will be run by Danom Technologies, a local distributor of dental equipment, such as Fotona lasers, that was founded in 2004. The first print edition will be made available in October during the Israel Dental Association's meeting. A local website will be launched in September.

Currently, Dental Tribune International's combined portfolio includes more than 100 trade publications that reach over 650,000 dentists in more than 90 countries and 25 languages. **DT**



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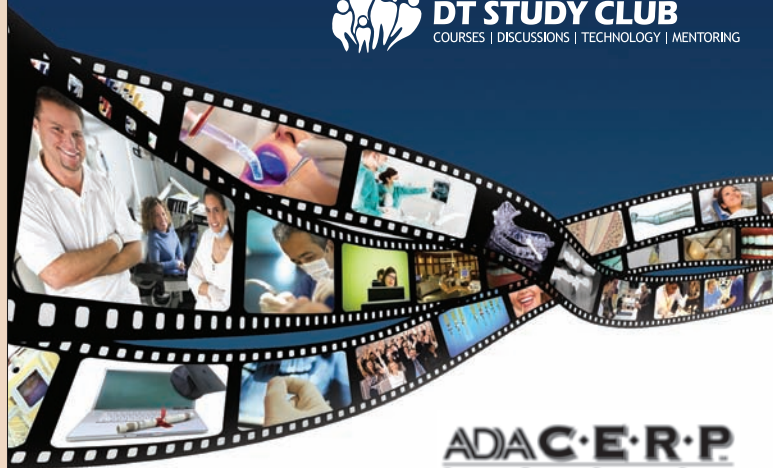
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AD

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**25
SEP**

NEW TECHNOLOGY TRENDS IN DENTAL PRACTICE

Paul Feuerstein, DMD
08:00 PM (EST)

An introductory look at new caries detection systems (including early detection/CAMBRA/decalcification), 3D digital radiography (Conebeam), digital impression systems and lab CAD/CAM.

Participants will learn:

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**05
NOV**

DIABETES AND PERIODONTAL DISEASE MANAGEMENT

Luciana M. Shaddox, DDS, MS, PhD
08:00 PM (EST)

In this webinar, the association between Diabetes and Periodontal Diseases will be elucidated, with special emphasis to how it impacts Periodontal health and the management of diabetic patients with periodontal disease.

Participants will learn:

- How does Diabetes impact Periodontal Health and how Periodontitis can impact Diabetes control
- How to best manage Diabetic Patients with Periodontal Disease
- How to avoid diabetic emergencies in your office
- How to help diabetic patients maintain their periodontal health and concomitant metabolic control



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Health issues prevalent among female FDWs

New report highlights problems of migrant workers in Asia

DT Asia Pacific

SINGAPORE: A significant number of female foreign domestic workers (FDWs) in Asia suffer from dental problems and other illnesses owing to adverse working conditions, a review conducted by institutes in the US, Singapore and India has reported. According to the paper by researchers from the Duke-NUS Graduate Medical School Singapore published online ahead of print in the *International Journal of Occupational and Environmental Health*, most women who work as FDWs also have poor knowledge of the risks to their health.

In Asia, millions of women are currently employed as domestic workers, such as housemaids and domestic helpers, in a foreign country. They usually live with their employer, where they may be exposed to poor working conditions, such as overlong working hours, inadequate housing or a lack of privacy. In addition, owing to their alien status in their host country, they lack legal protection from psychological and physical abuse, among other threats.

Although their numbers are increasing, so far little has been known about their health issues, the researchers said. Their report, based on 32 studies and questionnaires conducted among



Millions of women in Asia are employed as domestic workers abroad.

FDWs in 11 different countries between 1995 and 2010, investigated health problems related to adverse working conditions, mental health and infectious diseases. Studies on knowledge and attitudes towards health were also reviewed. According to the scientists, the results indicate that more research into the occupational health hazards and health of FDWs is needed. They noted however that working conditions have improved slightly through new legislation in countries like Singapore, where some of the largest numbers of female FDWs are employed.

“As the demand for domestic help rapidly increases in the developed world, migration of

labour from the less developed to the more advanced economies will only grow. Given the critical economic role FDWs play by contributing vital foreign remittances to the economy, labour-sending countries have a vested interest in easing the migration process. Hence, ensuring the safety and health of FDWs should be important to both the host and labour-sending countries,” the report states.

Owing to economic development, demand for domestic workers has increased by 50 per cent over the last 15 years, according to labour organisations. Besides Singapore, Hong Kong and Taiwan are currently the countries with the largest numbers of FDWs. [DT](#)

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“Referred patients are the best patients”

An interview with Dr William Cheung, Hong Kong



Dr William Cheung

Dentistry is still largely a profession focused on treatment rather than prevention of oral diseases like caries or periodontal disease. A preventive approach in dentistry is needed more than ever, according to FDI Continuing Education programme director for the Asia-Pacific region Dr William Cheung. *Dental Tribune Asia Pacific* met with him at the FDI Annual World Dental Congress in Istanbul, Turkey, to discuss the philosophy briefly, and its benefits for both the patient and dentist.

Dental Tribune Asia Pacific: *Dr Cheung, could you please summarise the key aspects of the preventive philosophy for us and why it is important?*

Dr William Cheung: I think in the mind of most dental practitioners, prevention means primarily brushing, flossing and regular cleaning. There is no question that these measures are important but there is a lot more to this, like all the developments in the area of fluoride, for example. Many dentists are not aware of that.

There is also caries management by risk assessment, where we sit down with the patient and go through a certain process step by step. With the outcome of this, we can identify certain areas that need special attention. Then we formulate a protocol for this particular patient for managing his or her risk, or minimising it. This is not necessary for every single patient but if we expect the patient to be highly susceptible to caries then we would go through that exercise and perform a risk assessment.

Such a model clearly benefits the patient. What is in it for the dentist?

Patients sense that you have a preventive approach at your practice and actually notice that you are going through all these exercises for them. This creates a positive image for the practice.

As dentists, we gain greater satisfaction because we can see the result of introducing this type of approach to patients that will subsequently be of benefit to them. By having patients come in regu-

larly, you can identify something and can offer choices rather than expecting patients to come in only once they have a problem. When you start to build this kind of positive image and patients are happy, they are going to refer patients to you. Referred patients are the best patients in my opinion.

Considering all the prevention-focused initiatives that organisations like the FDI are running, where do we stand with the preventive model?

Unfortunately, at a congress like the FDI AWDC here in Istanbul, most dentists want primarily to attend presentations in fields

like cosmetic dentistry and implants. Those are the major topics that they are interested in, and I do not blame them because implants can generate a lot of revenue.

As dental professionals, however, I think we owe it to our patients to adopt a preventive philosophy. If we do the right thing,

it can be rewarding as well financially. So, if you ask me when we are going to reverse this trend, I do not have an answer for you but as a dental association it is our responsibility to teach prevention and ensure that dentists understand what that means.

Thank you very much for the interview. DT

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Dear reader,



Daniel Zimmermann
DTI

The FDI's recent decision to hold yet another of its annual congresses in an Asian country is good news for dentists in the region, not necessarily because it will significantly advance dentistry there, but because it will offer the international dental community a window to the latest achievements in the region to date. Particularly in Thailand, where the 2015 congress will be hosted, the quality of oral health care services has made a huge leap, fuelled by dental tourists who demand state-of-the-art-treatment at lower costs. On the other side, an enormous gap in access to dentistry still exists between the major cities and the countryside, where only a fraction of people are able to visit a dentist regularly. For discussions about these issues and finding solutions to them, the FDI congress will be an important platform. I hope to see you also in New Delhi in 2014, where the organisation's next congress will be held in partnership with the Indian Dental Association. [DTI](#)

Yours sincerely,

Daniel Zimmermann
Group Editor
Dental Tribune International

Dental Tribune welcomes comments, suggestions and complaints at newsroom@dental-tribune.com.



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Minimum intervention in dentistry



Prof. Prathip
Phantumvanit
Thailand

The concept of minimum intervention in dentistry (MID) ranges from early diagnosis of oral disease to appropriate intervention, which includes prevention, control and treatment for the purpose of conserving natural tooth and periodontal structure. A number of MID measures have recently become available, including the very early detection of dental caries using Quantitative Light-induced Fluorescence (QLF). Moreover, the visual FDI Caries Matrix, in terms of non-cavitated and cavitated lesions in enamel and dentine, has been proposed as a caries index for timely prevention and treatment.

For caries restoration, partial caries removal during cavity preparation has been suggested, which,

according to research, appears to reduce the incidence of iatrogenic pulp exposure and therefore the risk of pain and infection. Simplified and modified atraumatic restorative treatment, a further development of atraumatic restorative treatment (one of the original MID methods of restoration) and a preventive method of restoration for primary teeth that entails partial caries removal and filling with encapsulated self-curing glass ionomer cement, has been proposed. This concept makes preventive restoration in preschool children, even by trained dental auxiliaries, possible. Moreover, effective use of self-care fluoride toothpaste during toothbrushing has been suggested for every age group, especially the correct minimal amount of toothpaste used in children to prevent both caries and fluorosis.

There are several interesting MID measures in terms of periodontal disease, such as non-surgical or minimally invasive surgery

in periodontal therapy, and single-flap or flapless implant surgery. The effectiveness of the buccal single-flap approach for surgical debridement of deep intraosseous defects has been shown to be comparable to the double-flap approach in terms of clinical attachment level gain, probing pocket depth reduction and minimal gingival recession, six months post-surgery. Another method is flapless implant surgery conducted with help of the tissue punch technique instead of having to raise a mucoperiosteal flap. Reports show that this reduced operational time, accelerated post-surgical healing and even increased patient comfort in some cases. [DTI](#)

Contact Info

Prof. Prathip Phantumvanit is currently Vice-Chairman of the Public Health Committee of the FDI World Dental Federation. He can be contacted at prathip@tu.ac.th.

A huge burden



Dr Mitsuo Okubo
Japan

Dentists in Japan continue to practise under very difficult circumstances as the Japanese society is ageing at the fastest rate in the world. It only took my country's aged population 24 years to go from 7 per cent in 1970 to 14 per cent in 1994. The unique phenomenon of Japan's rapid ageing resulted from the extraordinary increase in average life expectancy.

Unfortunately, healthy life expectancy has not kept pace with this and statistics show that there are many elderly people who require nursing for ten years or more after they have reached the age of 72. This places a huge burden not only on these individuals, but also on their families and society as a whole.

Prior to this increase in the elderly population, the Japan Dental Association started the 8,020 movement in order to contribute to a more healthy ageing society by helping people over the age of 80 retain at least 20 functional teeth. I think you will agree that the first goal of dentistry is to sustain and enhance oral function until people reach the end of their life. [DTI](#)

Contact Info

Dr Mitsuo Okubo is the president of the Japan Dental Association. He can be contacted at kokusaishougai@jda.or.jp.

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Dental professionals in Europe targeted by perio awareness campaign

DTI

MONACO/MADRID, Spain/CHICAGO, USA: Periodontal disease is a major public health issue that should be addressed increasingly by the medical and dental communities, the European Federation of Periodontology (EFP) and the American Academy of Periodontology (AAP) have stated in a joint manifesto. In order to convey this message to more dentists, the EFP recently launched an international awareness campaign aimed at more than 500,000 professionals in Europe.

Kicked off at the recent international symposium of the Swiss Osteology Foundation in Monaco in May, the Outreach Campaign aims to highlight both the relationship between periodontal and systematic diseases, as well as the importance of periodontitis prevention. According to the manifesto, which has been available on the organisation's website since March, there is convincing evidence from a large number of studies that periodontitis may increase the risk of developing diabetes or cardiovascular disease, and may lead to adverse pregnancy outcomes, such as preterm birth or low birth weight. Other systemic conditions such as rheumatoid arthritis or certain kinds of cancers are also thought to be influenced by periodontal inflammation.

In light of this evidence, dental professionals will have to fundamentally change the perception of their responsibilities as providers of general health, the manifesto states. Multidisciplinary approaches through collaboration between dental and medical communities, as well as within the dental communities, will have to be developed further to meet future patients' needs.

The content of the manifesto is based on recommendations made during a joint EFP/APA workshop, which took place in Spain in November last year and drew 80 experts in the field. The workshop was held under the leadership of Profs. Mariano Sanz from Spain, Maurizio Tonetti from Italy, and Niklas Lang from the University of Hong Kong's Faculty of Dentistry. Among other measures, it recommends thorough periodontal evaluation of patients presenting with signs of systematic diseases by dentists. It also calls for more clinical trials and studies researching the effects of periodontal therapy on several disease factors in different populations in order to obtain additional reliable scientific data on these issues.

Besides the manifesto, the campaign will provide information through regularly updated online dossiers, video documentaries and other promotional activities. A seven-minute clip was presented to the public in Monaco and is

already available on video-sharing platforms like YouTube.

In addition to the EFP member associations, the campaign has re-

ceived support from dental consumables provider Colgate-Palmolive's GABA and other professional dental bodies. Owing to these partnerships, the campaign will be pre-

sented at most of the national member events throughout the year, the organisation said. More information about the Outreach Campaign is available on a dedicated website at perioworkshop.efp.org.

The EFP currently consists of 28 national periodontal associations that boast a combined membership of over 15,000 professionals. Besides publishing the *Journal of Clinical Periodontology*, it hosts the triannual EuroPerio congress. The next edition of this event will take place in London in 2015. [DTI](#)



Profs. Niklas Lang, Mariano Sanz and Maurizio Tonetti discussing the results of the EFP/AAP workshop in Monaco.

AD

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Dr Michael Zuk keeps a collection of celebrity teeth, which includes the John Lennon tooth, a dental crown worn by Elvis Presley and one of Julian Lennon's baby teeth.

US lab to sequence DNA from John Lennon's tooth

DTI

EDMONTON, Canada: Dr Michael Zuk, the Canadian dentist who bought one of John Lennon's molars for US\$30,000 at an auction almost two years ago, has partnered with a laboratory

in the US to extract the musician's genetic code from the tooth.

"I am nervous and excited at the possibility that we will be able to fully sequence John Lennon's DNA, very soon I hope. With researchers working on ways to

clone mammoths, the same technology certainly could make human cloning reality," Zuk said.

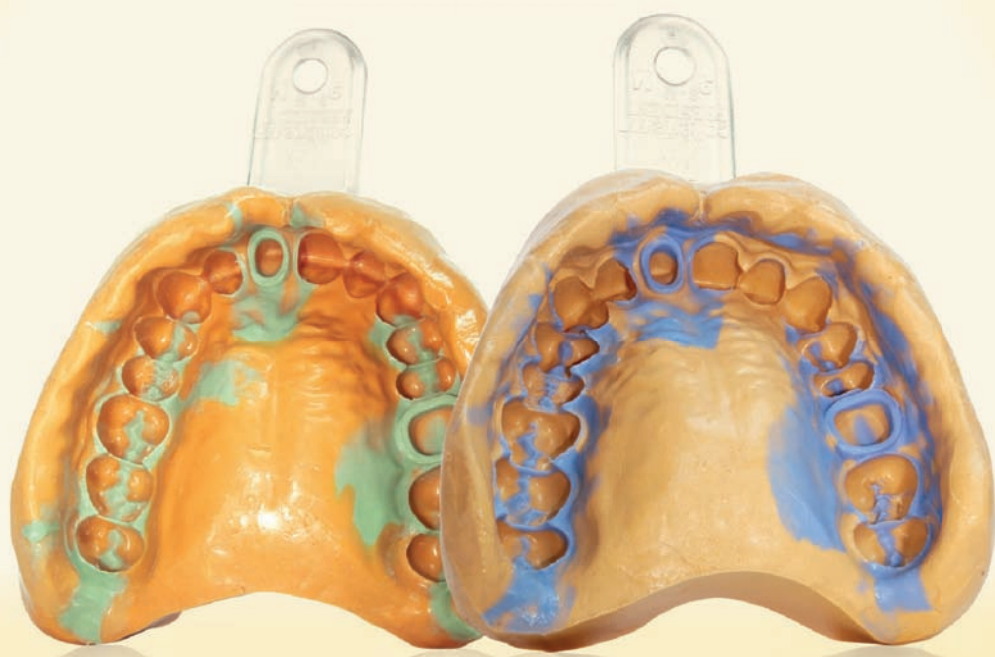
Further details of the research project are still being kept confidential. Zuk told *Dental Tribune* that he had asked the scientists to

halt any procedures until the interest of a film crew to document each step has been secured.

In the 1960s, the famous John Lennon gave the tooth to his housekeeper, whose family auctioned it in November 2011. The tooth has appeared in a number of media reports and television documentaries since then. Last year, Zuk partnered with celebrity jeweler Ari Soffer to design three John Lennon DNA pendants valued at US\$25,000 each. Within the scope of a mouth cancer awareness campaign, one pendant was sent to a group of dentists in the UK who were offering free mouth cancer screening. With his blog "The Un-Cosmetic Dentist", Zuk is also a regular contributor for the *Dental Tribune* website. [DT](#)

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Ban removed on HIV-positive dental staff

DTI

LONDON, UK: The UK Department of Health recently announced that it will be modernising the HIV rules that were implemented in the 1980s to protect the public better. Part of the plan is to allow doctors, nurses and other skilled health care workers with HIV who are undergoing treatment to perform certain medical procedures from which they are currently banned.

Following independent scientific advice, the department will lift the ban on health care workers with HIV being able to carry out certain dental and surgical procedures from April 2014. However, strict rules on treatment, monitoring and testing will be implemented as well to safeguard patients. With this reform, UK authorities aim to bring the country in line with other nations, such as Sweden, France, Canada and New Zealand. Based on case-by-case decisions, HIV-infected dentists may be allowed to carry out procedures if they are on effective combination antiretroviral drug therapy, have an undetectable viral load and are regularly monitored by a physician. The department is now planning to establish a programme to register and monitor health care workers who have HIV.

According to the department, there is no record of any patient ever being infected through a health care worker in the UK. There have been only four cases worldwide. In 1992, a dentist in Florida in the USA transmitted HIV to six patients. In 1999, a French orthopaedic surgeon transmitted the virus to one patient. A woman was infected during a Caesarean section by a Spanish gynaecologist in 2005. An additional case was reported in 2000, when a nurse in France transmitted HIV to a patient. However, the exact route of transmission is unclear in this case. [DT](#)

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Becoming one of the top five manufacturers of dental materials in the world

An interview with Mitsui Chemicals Executive Vice-President Minoru Koshibe in Japan

In a surprising move, German precious metals group Heraeus sold its dental business to Mitsui Chemicals in April. Recently, *Dental Tribune Japan* had the opportunity to visit the company's headquarters in Tokyo and sit down with Executive Vice-President Minoru Koshibe to talk about the reasons for the acquisition and the reasons his company, which specialises in chemicals and plastics manufacturing, sees its future in the dental field.

Dental Tribune Japan: Mr Koshibe, economic growth in Japan has been slow in recent years. Was this one of the major reasons for the Heraeus acquisition?

Minoru Koshibe: As a diversified chemicals company, 70 per cent of our business comes from the manufacturing of chemicals, including petrochemicals. For this reason, we are naturally affected by macroeconomic changes like rising oil prices. After the Lehman Brothers bankruptcy and the harsh economic conditions that followed, we no longer perceived a future of growth and continuity, so we decided to move our corporate direction to areas that would be less affected by economic cycles, such as health care.

Although we originally operated in the medical field, we were not able to advance immediately



Minoru Koshibe has been serving as Executive Vice-President of Mitsui Chemicals since June. (DTI/Photo Dental Tribune Japan)

envisioned global expansion, Heraeus seemed to be the best choice, also because the company was constantly trying to expand its reach into dental CAD/CAM, which is a new business segment, for which extraordinary growth in the future is anticipated. Had Heraeus not had such a digital services division, I guess we would have had to acquire another company, but the company's existing foothold in the CAD/CAM business was a decisive factor. Therefore, it was also the first company we contacted.

“Despite the difficult market environment, we still want to expand our sales channels in Europe and North America.”

in that business because we sold this segment very early on. However, we subsequently started to develop monomer optical lenses, which gained a huge market share in Japan. With Sun Medical as our next business endeavour, we planned to expand operations to a worldwide level. Unfortunately, we soon realised that this would probably take 20 to 30 years, so we finally decided to take the plunge and acquire a company with a global foothold in the dental materials market.

Had you been looking into other companies, and what factor made you decide on Heraeus over all available options?

We made a list of the top ten manufacturers of dental materials in the world and narrowed it down to a few companies after having reviewed them from various perspectives. For our

Heraeus has significant market share in the European and North American dental markets. Do you intend to increase your reach there in particular?

With the bonding agent Super-Bond as key product, we have been operating through Sun Medical in North America and Europe already, but sales there has not met our expectations in the past. Despite the difficult market environment, we still want to expand our sales channels in Europe and North America, as these are the most important markets for materials with higher price points.

In order to achieve this, we aim to integrate our technologies with Heraeus Kulzer's sales channels. Dental materials have shifted to composite resins and hybrid new materials that meet various aesthetic requirements,

and we intend to create a synergy in making the best possible use of our polymer technologies for the new digital services. Methyl methacrylate is certainly the gold standard at the moment, but we want to develop dental materials with new polymers. We believe the key technology for achieving this will be CAD/CAM and 3-D printing.

What outcomes do you expect from the acquisition for your domestic dental business?

We want dental materials to become the core of our overall business. Since Sun Medical is much smaller than Heraeus, we decided to establish our dental materials head office in Germany, which started operations in April. From there, Sun Medical

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