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Obsidian lithium silicate ceramic restorative can be used for ceramic fused to metal, all-ceramic and chairside-milled cases.

► page A4

**HEADLIGHT WEIGHS LESS THAN 1 OZ.**

When attached to a pair of loupes of your choice, the combined weight is still half that of a integrated cordless lights/loupes.

► page A7

**IMPLANT TRIBUNE****ICOI HEADS TO VANCOUVER**

World Congress XXXV to celebrate 45 years of implant education.

► page B1



CDA Presents: Diverse ideas, fresh solutions

150-plus courses and workshops, hundreds of exhibitors

One of the nation's biggest dental conventions, CDA Presents The Art and Science of Dentistry, will be in San Francisco Aug. 24-26, with online registration now available at www.cdapresents.com/sf2017.

Full program available

The CDA Presents Program, available through the meeting's dedicated website as a mobile-friendly PDF, is color-coded, organized by day (Thursday-Saturday) and categorized into lectures and workshops, to help attendees identify courses and plan a personal daily schedule.

Early registration for workshops will help guarantee a seat at these ticketed events. And while all lectures are free, attendees have the option to reserve a seat for a nominal cost for some popular lectures. Details, including course descriptions and speaker biographies, are in the program.

A return to Moscone West

After many consecutive years in Moscone Center South, this year the San Francisco convention will take place directly across the street in Moscone West, offering attendees two floors of dental innovation from nearly 400 exhibitors to explore. All courses will be held on the second and third floors.

Limited preferred lodging

A limited number of rooms are available

at preferred rates at the 11 hotels in the CDA housing block. Early reservation will help ensure choice of hotels. This close to the meeting, reservations cannot be guaranteed but will be made if space is available. Moscone West is easily accessible from all hotels in the housing block.

The hotel information section of the program includes a map of the hotels and their proximity to the convention, along with hotel descriptions, rates and directions for finding potential rooms online and by phone, fax or email.

Diverse ideas and fresh solutions

CDA Presents The Art and Science of Dentistry, held biannually in Anaheim in the spring and San Francisco in the fall, offers continuing education through more than 150 courses and workshops plus the latest dental products and services from hundreds of exhibitors.

Those who attend the three-day convention will have numerous opportunities to spot emerging trends, gain new perspectives on practice and find solutions for common problems through engagement with peers and mentors.

You can find the CDA Presents Program in the June issue of the Journal of the California Dental Association or you can visit www.cdapresents.com/sf2017 for a PDF version for mobile reading.

(Source: California Dental Association)



San Francisco's cable cars are blocks away from the Moscone Center, the site of the California Dental Association's northern version of its two main annual meetings. The event features a broad selection of courses, lectures and workshops — and more than 400 companies displaying dentistry's latest products and services. Photo/Managing Editor Robert Selleck, DTA

Otolaryngologist to join cadaver workshop

A popular workshop at CDA Presents The Art and Science of Dentistry that uses cone beam computed tomography to preview and identify head and neck anatomy prior to and during dissection will return to the San Francisco convention this fall — with an added element. Joining Homayon Asadi, DDS, and David Hatcher, DDS, as a lecturer will be Nancy Appelblatt, MD.

Appelblatt, an otolaryngologist, has had an abiding interest in sleep and sleep-disordered breathing since the early 1990s and has lectured extensively on sleep-disordered breathing in the U.S. She will bring to the hands-on workshop her perspective and expertise, providing a new focus on temporomandibular joint dysfunction and airway-related anatomy and disorders.

"We learn so much from cone beam in terms of the anatomy that I deal with, and cross-culturally with the dentist, that it's turned out to be very fruitful to look at things from a circumferential point of

view," said Appelblatt, who attended the CDA Presents Anaheim workshop to plan her participation as a lecturer at the San Francisco workshop. Appelblatt attended in an unofficial capacity but occasionally contributed to the discussion, and Hatcher observed the value that her clinical perspective added to the course.

"I noticed we were really able to put the anatomy in clinical context a little better than we did before," Hatcher said. "Every time we came upon a piece of anatomy we talked about the clinical correlations of that anatomy, including some of the red flags and areas of concern." For example, anatomic changes can occur when breathing changes over the years and these changes can be seen in some of the soft tissues. "It's helpful to correlate those changes when looking at the anatomy and at normal or abnormal radiographs," Appelblatt said.

Attendees, working in pairs on a half-

► See CADAVER, page A2

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Sulzer Mixpac 1 ml system delivers big on flexibility

By Sulzer Mixpac Staff

Sulzer Mixpac has developed a new one-component system for hygienic dental applications: the 1 ml system. The product has a standard Luer Lock, which provides a highly secure connection because of its screw-thread design. And it comes with three different, bendable and rotatable cannulas.

The company reports that its 1 ml application system has an innovative, flexible cannula, which is available in three different gauges: 18, 20 and 22.

"The metal cannula on our Luer Lock tips is 360-degree rotatable and can be bent up to 180 degrees without reducing the inner diameter and the material flow. This allows an individual and safe application of low-viscosity to gel materials in difficult clinical situations," said Anja Stouten, the company's head of product management/dental.

The metal cannula is rounded by a vibratory finishing process. Because of this special surface treatment, the metal is



The metal cannula on the Luer Lock tip is 360-degree rotatable and can be bent up to 180 degrees without reducing the inner diameter and material flow. Photo/Provided by Sulzer Mixpac

deburred, and therefore the cannula is optimally prepared to use on the patient, according to the company.

For the production of the 1 ml system, only high-quality, FDA-listed materials are used. This is the case for the plastic materials as well as for the medical stainless steel of the cannula.

The application process is described by

the company as being "intuitive."

The ergonomic design of the 1 ml cartridge ensures a stable and precise application.

The coated silicone O-ring facilitates application and reliably seals the system. The cartridges are available in white, black and transparent and thus suitable for different dental materials.

Speakers announced for Dental 3D University 2017

KaVo Kerr will host its third annual Dental 3D University (3DU), featuring imaging solutions from KaVo™, Instrumentarium™ and Gendex™. The two-day event, Sept. 29-30 in Dallas, offers dental professionals an educational environment dedicated to cone beam 3-D (CBCT) solutions.

The event offers dentists, staff and dental students the opportunity to earn up to 11 C.E. credits from sessions on incorporating 3-D into your practice and maximizing its investment, implant planning with 3-D and surgical guides, reading 3-D scans and more, presented by experts such as:

Dr. Lou Shuman, Dr. Kevin Aminzadeh, Dr. Douglas Chenin, Dr. Lou Graham, Dr. Diwakar Kinra, Dr. Lisa Koenig, Christine Taxin, Dr. Terry Work, Dr. Gy Yatros, Laura Howerton, RDH, and Art Curley.

"Being the go-to partner for dentists means offering more than just a stellar product. 3DU is an expression of our commitment to the dental team — wanting them to be educated and empowered to use state-of-the-art technology in delivering optimal care and outcomes," said Pankaj Jaggi, senior director, marketing, for KaVo Kerr Imaging. "We are excited to

present a program that will offer tips dentists can put into use right away, as well as concepts that will benefit them in long-term strategizing for the dental practice."

The venue for 3DU, 20 minutes north of downtown Dallas, is the Omni Frisco Hotel. Just outside is entertainment and shopping at The Star, the new social hub of Frisco and home of the Dallas Cowboys. Hotel arrangements made by Aug. 31 can qualify for the 3DU special rate. Register at www.Dental3DU.com.

(Source: KaVo Kerr)

• CADAVER, page A1

head cadaver, use real-time CBCT to examine the superficial and deep structures of the face, suprahyoid region, floor of the mouth, neurovascular pathways, masticatory musculature, paranasal sinuses and temporomandibular joint. Real-time computer vision navigation and CBCT are used to guide dissection.

Whereas previous iterations of this workshop, dating back to the inaugural course in fall 2016, concentrated on general head and neck dissection, the workshop this fall will be optimized for sleep medicine, sleep dentistry and TMD and airway issues.

Hatcher plans to approach the course again from an imaging point of view — "the kinds of things we can sense using imaging," he said. As a physician who sees and treats patients, Appelblatt can help "triage patients so that they receive the appropriate treatment once the diagnosis has been made," Hatcher said of Appelblatt's role in the workshop and

dentistry in general. And Asadi is "the anatomist — the glue that puts this all together," Hatcher said. "He loves anatomy, he loves to teach and he's good at it."

"Dr. Asadi is engineering some very clever things here. He's bringing together disparate experiences to focus on one problem. All of us (Asadi, Hatcher and Appelblatt) work with anatomy but through a different lens," Hatcher said. "Hopefully, our combined experience and expertise make a good course."

Appelblatt added: "We're all taking care of our patients and we all want the same thing, which is the best for each and every one of them, so from whatever point of view we come at this, we should talk

about things more — and that's what's going to happen."

"Dental Sleep Medicine, Head and Neck, TMD and Airway Dissection and CBCT Cadaver Workshop" is scheduled for 9 a.m. to noon, Thursday, Aug. 24, at CDA Presents San Francisco. The three-hour workshop offers 3.0 core units and will repeat at 1:30 p.m.

To learn more about this workshop, you can view a video interview with Hatcher and Appelblatt on the California Dental Association's YouTube channel.

Also learn more in the CDA Presents Program at www.cdapresents.com/sf2017.

(Source: California Dental Association)

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2017 CDA Presents San Francisco exhibit hall

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Obsidian lithium silicate ceramic restorative material can be used for ceramic fused to metal, all-ceramic and chairside-milled cases.
Photo/Provided by Glidewell Laboratories



By Glidewell Laboratories Staff

Obsidian® lithium silicate ceramic is a state-of-the-art restorative material that can be used for ceramic fused to metal, all-ceramic and chairside-milled cases. According to the company, this versatility enables clinicians to prescribe a single material for virtually any indication in the mouth. A simplified workflow can ensue because using Obsidian can facilitate a cohesive appearance across the arch, even when the oral situation demands multiple types of restorations.

According to Glidewell, Obsidian offers more than four times the flexural

strength and twice the chip resistance as traditional feldspathic porcelain. Furthermore, the translucency and esthetics of the material match those of dentition, making Obsidian the optimal combination of utility and beauty, the company asserts.

Pressed to metal

The latest release in the product line, Obsidian Pressed to Metal, provides a PFM-like restoration for today's clinician.

Rather than fusing feldspathic porcelain to cast metal, Obsidian lithium silicate ceramic is pressed to laser-sintered understructures to form modernized ceramo-metal restorations. Each

case is designed digitally and fabricated through unique computer-controlled processes, for precise restorations. The understructures are made through a method in which a programmable laser beam strikes metal powder to build the desired shape, layer by layer. The anatomy is formed by heat-pressing lithium silicate ceramic into a 3-D printed mold.

Finished Obsidian Pressed to Metal crowns and bridges can achieve far greater strength than their conventional PFM predecessors. According to the company, these natural-looking, chip-resistant restorations are ideal for covering dark preps and endodontic posts. Indications include crowns and bridges anywhere

in the arch, and screw-retained and cemented implant restorations.

All-ceramic

Obsidian All-Ceramic restorations are made from the same lithium silicate ceramic used for the pressed to metal restorations, meaning that monolithic and ceramo-metal prostheses can be placed adjacent to one another with successful results.

According to the company, these all-ceramic restorations mirror the vitality and translucency of natural dentition, and are indicated for individual anterior and posterior crowns, veneers, inlays, onlays and three-unit anterior bridges.

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One-take impression material can save time, material, costs

By Kettenbach Staff

According to Kettenbach, the Panasil family of high-quality performing materials reduce the number of retakes because accuracy is achieved the first time — and impressions done in one take use less material and cost less. Photo/Provided by Kettenbach



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About Kettenbach

Kettenbach LP is based in Huntington Beach, Calif., and is the exclusive U.S. distributor for Kettenbach GmbH & Co. KG, based in Eschenburg, Germany. Founded in 1944, the company is a leading international producer of impression materials for dental use and is also known in other surgical areas of medicine.

For more information about Kettenbach LP products, you can call (877) KEBA-123 or visit www.kettenbach.com.

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Left, the WireLess Mini headlight is powered by specialty rechargeable lithium-ion rechargeable cylindrical cells and weighs less than an ounce. Right, the LED DayLite WireLess produces more than 40,000 lux at high intensity and 27,000 lux at medium intensity. Photo/Provided by Designs for Vision

Choose the wireless, self-contained headlight that works best for you

By Designs for Vision Staff

Designs for Vision's new LED DayLite® WireLess™ Mini headlight frees you from being tethered to a battery pack. The simple modular designs uncouple the headlight from a specific frame or single pair of loupes. Prior technology married a cordless light to one pair of loupes via a cumbersome integration of the batteries and electronics into the frame. The compact

design of the LED DayLite WireLess Mini headlight is independent of any frame/loupes.

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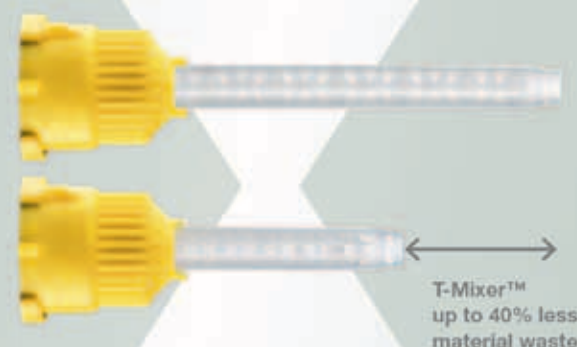
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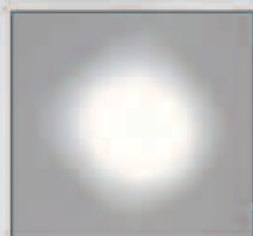


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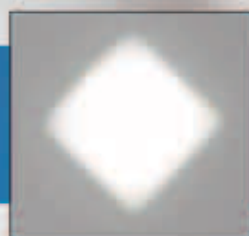
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IMPLANT TRIBUNE

— The World's Dental Implant Newspaper • U.S. Edition —

AUGUST 2017 — Vol. 12, No. 8

www.dental-tribune.com

ICOI heads to Vancouver

*World Congress
XXXV to celebrate
45 years of ICOI,
implant education*

By Sierra Rendon, Managing Editor

The International Congress of Oral Implantologists will host its World Congress XXXV in Vancouver, Canada, from Aug. 17-19.

This year, the ICOI is celebrating its 45th anniversary, and August's World Congress is sure to offer attendees a wide array of education, camaraderie with colleagues and exposure to the latest technologies in the implant industry.

Implant therapy is one of the most successful treatment modalities in dentistry because of the excellent biocompatibility of titanium and the process of osseointegration, says event chairman Avi Schetrit, DMD. However, biological

► See ICOI, page B2

Vancouver, Canada, will be the site of the ICOI's World Congress XXXV from Aug. 17-19. Photo/Provided by www.freeimages.com

JOMS study: Public, patients agree that oral surgeons are most qualified to place implants

By JOMS Staff

Both prospective dental implant patients and the general public agree in a new study: oral and maxillofacial surgeons are the most qualified to perform the procedure to replace missing teeth.

The study, published in the July issue of the Journal of Oral and Maxillofacial Surgery, also finds the public needs more education about dental implants, and dental providers should emphasize this information to potentially improve patients' experiences.

For the study, two groups of adult patients were asked about dental implants and where they obtained information about them. The general population group had 50 randomly selected patients at the emergency clinic at the Virginia Commonwealth University School of Dentistry. These patients had no plans to have

dental implants placed. The other group had 76 patients who had scheduled a dental implant consultation at the school's Dental Implant Clinic.

Most participants from both groups agreed: 1) oral and maxillofacial surgeons are the best doctors to place implants, 2) implants need the same dental hygiene as a normal tooth, and 3) the top factor for not getting an implant is cost.

Nearly 25 percent of the general population group had never heard of dental implants. Most participants in this group received their implant information from less dependable sources, according to the study. These participants were more likely to obtain information from their friends or family members, while the implant consultation patients were more likely to say their dentist was their top source for information.

The study also finds that patients who understand the dental implant procedure and their role in post-surgical care and

oral hygiene can have an overall successful experience. Doctors should have an understanding of a patient's knowledge about implants, the accuracy of that information and why patients may decline getting them, researchers wrote.

"Although this study showed that patients presenting for dental implants generally are better informed than the general public, the fact that even in this group some were less knowledgeable than others indicates that there is still a need for public education," the authors wrote.

The authors of "Public and Patient Knowledge About Dental Implants" are George Deeb, DDS, MD, associate professor, Bryan Wheeler, DMD, Chief Resident, Daniel Laskin, DDS, MS, professor emeritus, Department of Oral and Maxillofacial Surgery, School of Dentistry; Margaret Jones, BS, student, School of Dentistry; Caroline Carrico, PhD, assistant professor, Department of Research Administration; and Janina Golob Deeb, DMD, MS, assistant pro-

fessor, Department of Periodontics, School of Dentistry; all from Virginia Commonwealth University in Richmond, Va.

The full article can be accessed at [www.JOMS.org/article/S0278-2391\(17\)30342-7/fulltext](http://www.JOMS.org/article/S0278-2391(17)30342-7/fulltext).

About JOMS

The Journal of Oral and Maxillofacial Surgery is published by the American Association of Oral and Maxillofacial Surgeons to present to the dental and medical communities comprehensive coverage of new techniques, important developments and innovative ideas in oral and maxillofacial surgery. Practice-applicable articles help develop the methods used to handle dentoalveolar surgery, facial injuries and deformities, TMJ disorders, oral and head and neck cancer, jaw reconstruction, anesthesia and analgesia. The journal also includes specifics on new instruments and diagnostic equipment, and modern therapeutic drugs and devices.