One of the greatest limitations in the use of resin composites is the material's shrinkage during polymerization. This process, typically associated with dynamic development of elastic modulus, creates a network of stress cells within the resin composite and its interface with the tooth structure. The unrelieved stress can weaken the bond between the tooth structure and the restoration. Consequently, marginal leakage, tooth fracture and a restoration’s displacement may occur and further initiate the formation of secondary caries and post-operative sensitivity.

On average, the majority of resin composites in the market shrink about 2 to 5 percent. As polymerization shrinkage cannot be completely eliminated, a plethora of techniques and protocols has been developed to conduct the manipulation of restorative procedures to minimize the effects of shrinkage and associated shrinkage stress.

Introduction of various new composite systems with low-shrink chemistry may also help overcome the problem.

A next generation of a bioactive composite indicated for all cavity classes, I–V, Beautifil II LS (Low Shrink) provides general practitioners with the means to reduce polymerization shrinkage and shrinkage stress while creating predictable and functional esthetics.

Like all restorative materials from Shofu, this novel composite incorporates the proprietary bioactive Giomer chemistry, clinically proven in eight- and 13-year recall studies to release and recharge fluoride and other beneficial ions and inhibit plaque formation to help establish a stable pH in the oral environment.

Highly filled, 83 wt percent, Beautifil II LS demonstrates excellent compressive and flexural strength (ca. 370 MPa and 120 MPa, respectively), maintains ideal color stability and polishes in an instant, producing a long-lasting sheen, according to the company.

Among the distinguishing features of Beautifil II LS are its low-shrink attributes. In rigorous international bench tests, this ground-breaking material demonstrated volumetric shrinkage of 0.85 percent and polymerization shrinkage stress of 2.72 MPa, the lowest characteristics among all universal composites in the market today. Shofu attributes these results to a new proprietary monomer and high-density pre-polymerized fillers, which also exhibit tooth-like optical properties and natural esthetics.

Available in syringes, tips and value kits, in 14 dentin and enamel shades, Beautifil II LS offers predictable and functional esthetics with greater strength, higher wear resistance and naturally beautiful esthetics, according to the company.

Features of Beautifil II LS (Low Shrink)
- Lowest volumetric shrinkage (0.85 percent) and shrinkage stress (2.72 MPa).
- Greater strength and higher wear resistance.
- Tooth-like esthetics with natural fluorescence and chameleon effect.
- Polishes in an instant.
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Midmark announces new brand identity to guide company’s continued growth

Rebranding reflects expanding role in enabling a better care experience

By Midmark Staff

Midmark Corp., a leading provider of medical, dental and veterinary equipment solutions, has launched a new corporate brand identity that it says captures the company’s commitment to a better care experience and the growing value Midmark offers customers as they focus on improving clinical outcomes.

The new brand identity, which includes a new website, logo, tagline and more, mirrors the transformation of Midmark from an equipment manufacturer into a clinical environmental design company that enables a better care experience for caregivers and patients in medical, dental and animal health industries. By harmonizing the clinical space, technology, products and workflows, the company asserts that it works closely with customers to contribute to better clinical outcomes.

"Care providers are always looking for new approaches, innovative technologies and proven solutions that can help enhance the patient and caregiver experience and improve the quality of care provided," said John Baumann, president and CEO, Midmark. "At Midmark, improving the experience between the patient and caregiver is at the heart of everything we do. Whether we are talking about a doctor’s office, dental practice or veterinary clinic, better care starts with a better-designed care environment, which leads to better outcomes."

The new tagline, "Designing better care," establishes a new path for the company as it continues to strengthen its role in the care experience through advanced technologies, acquisitions, new markets and expanded service offerings. It elevates the importance of design in the customer’s mind — helping them understand it’s not just about the space but also how it is used and the people interacting within it.

Baumann continued, "Our goal is to help our customers provide more efficient, effective and positive experiences that will enable them to focus on the quality of care and outcomes."

About Midmark

Midmark Corp. is a clinical environmental design company that hopes to enable a better care experience for the medical, dental and animal health markets. With more than 1,800 teammates worldwide, Midmark focuses on harmonizing clinical space, technology and workflows for caregivers and patients at the point of care.

Founded in 1915 and headquartered in the greater Dayton, Ohio, area, Midmark maintains production and administrative offices in Versailles, Ohio, with six other locations in the United States, as well as subsidiaries in India, Italy and the United Kingdom.

To learn more about Midmark, visit midmark.com.
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DenMat Holdings is pleased to announce that it was recently named an American Dental Association (ADA) Continuing Education Recognition Program (CERP) recognized provider. The distinction of ADA CERP means that continuing education (C.E.) courses, lectures and seminars offered by DenMat have been reviewed and approved as quality continuing dental education.

DenMat, as a premier provider of C.E. programs, may now use the ADA CERP recognized logo and recognition statement, which symbolize to oral health professionals that the content contained therein such materials is of the highest possible quality. This notation was important to DenMat, as the company wants C.E. credits offered at its comprehensive courses to be recognized by the ADA for the benefit of its member community.

“We are very pleased to have our continuing education platform recognized by the ADA,” said David Casper, DenMat chief executive officer. “C.E. has and will continue to play a strategic role in our company, with nearly 100 C.E. events held in North America this year alone.”

From the ADA: “Established in 1993, the ADA CERP provides ADA members and the dental community a mechanism to select quality continuing dental education with confidence and promotes the continuous improvement of continuing dental education both nationally and globally.”

The review process for ADA CERP recognition is thorough and managed by the Commission for Continuing Education Provider Recognition (CCEPR). Through an application and review process, CCEPR evaluates institutions and organizations that provide C.E. program offerings. CCEPR serves the public, the dental profession and other health-care providers by developing and implementing standards that promote excellence in continuing dental education to support professional competence and improvement of patient care.

DenMat is proud to join the ranks of C.E. providers as an ADA CERP recognized provider. For a full list of DenMat’s C.E. opportunities, visit www.denmat.com/r_dm_education_courses.

**About DenMat Holdings**

Since 1974, DenMat has been a leader in high-quality dental products for dental professionals in more than 115 countries around the world. DenMat manufactures and assembles most of its products at its world headquarters on California’s Central Coastal region. DenMat offers three main product categories: consumables, small equipment and dental lab services.

DenMat’s brands include Geris tore®, Core Paste®, LumiSmile White®, NV™ PRO3 and SOL™ soft-tissue diode lasers, the Rotadent® power toothbrush, PeriOptix™ magnification loupes and lights, Lumineers® and Snap-On Smile®.
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An independent study proves: Planmeca Ultra Low Dose™ protocol delivers an average 77% reduction in radiation dose without statistical reduction in image quality*.

Don’t let other manufacturers take you for a ride. Request a demo and download the study at planmeca.com/na/Imaging/ULD/.

*According to “Dosimetry of Orthodontic Diagnostic FOVs Using Low Dose CBCT Protocol” by JB Ludlow and J Kovisto.
Henry Schein Inc. has announced that it has been named to FORTUNE’s “Change the World” list, an annual ranking of companies that are doing well by doing good. Henry Schein was recognized for its efforts to improve the oral health and, by extension, the overall health of underserved populations around the world.

“Since our earliest days, we at Henry Schein have worked to align our strengths as a business with the needs of society, so it is greatly rewarding to be named to FORTUNE’s ‘Change the World’ list,” said Stanley M. Bergman, chairman of the board and chief executive officer of Henry Schein. “This recognition only serves to reinforce our commitment to improving the health of people in need, and we look forward to ‘helping health happen’ for years to come.”

Henry Schein was recognized for its efforts to improve the oral health of people in need through three initiatives the company supports as part of Henry Schein Cares, its global corporate social responsibility program:

• The Alpha Omega-Henry Schein Cares Holocaust Survivors Oral Health Program – An initiative of Henry Schein and the Alpha Omega International Dental Fraternity to provide free oral health care to Holocaust survivors living in poverty across North America.

• Give Kids A Smile – Henry Schein helped the American Dental Association create this program in 2003, and since then it has provided free oral health care and education to more than 5.5 million children in need across the United States. Henry Schein has served as the program’s official professional products sponsor since its inception.

• The Global Student Outreach Program – Through this initiative, Henry Schein partners with dental schools to improve the oral health in remote and underserved communities around the world while enhancing educational opportunities for the next generation of oral-health practitioners.

The “Change the World” list recognizes companies that have had a positive social impact through activities that are part of their core business strategy. FORTUNE considers a company’s measureable social impact, the business results of a company’s socially impactful work, the degree of innovation related to that work and how integral the initiative is to a company’s overall strategy. To view the entire list, please visit fortune.com/change-the-world/.

About Henry Schein
Henry Schein is a solutions company for health-care professionals powered by a network of people and technology. Headquartered in Melville, N.Y., Henry Schein has operations or affiliates in 34 countries. For more information, visit Henry Schein at www.henryschein.com, Facebook.com/HenrySchein and @HenrySchein on Twitter.
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Learn more at Crosstex.com/Syclone

*Crosstex.com/Syclone
*Warranty for the system. Other terms and conditions apply. 
All product names are trademarks of Crosstex International, Inc., a Cantel Medical company, its affiliates or related companies, unless otherwise noted. Patent pending.

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Create ‘brilliant’ restorations with COLTENE’s BRILLIANT EverGlow Universal Composite

By COLTENE Staff

BRILLIANT EverGlow is a universal submicron hybrid composite distinguished by the VITA™-based Duo Shade System, easy polishability, gloss retention, ideal handling and exceptional blending properties, according to COLTENE, the company behind the product.

BRILLIANT EverGlow’s Duo Shade System provides simple shade management: A single shade provides two VITA shades. With excellent blending properties, simplified decision-making and an economical shade range, this versatile system gives the dentist freedom to achieve highly aesthetic restorations, according to the company.

BRILLIANT EverGlow’s filler technology is engineered to provide a combination of long-lasting esthetics, handling convenience and mechanical strength, COLTENE asserts. Sub-micron glass fillers support polishability and gloss retention. Additional pre-polymerized fillers, which have the same composition as the uncured composite, lower volume shrinkage and improve the sculpting properties of the paste.

BRILLIANT EverGlow shows an exceptionally smooth surface and satin shine directly after placing the filling, according to the company. This simplifies the task of polishing, allowing highly aesthetic restorations to be performed in minimal time — especially when used with COLTENE’s ALPEN ShapeGuard Composite Plus polishers.

Why Dental Product Shopper rated it as a Best Product in the composites category. You may also visit everglow.coltene.com to request a free sample.

Here in San Francisco

Visit COLTENE at booth No. 1312 to try BRILLIANT EverGlow. You may also visit everglow.coltene.com to request a free sample.
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CDA NORTH BOOTH #702
Solvay Dental 360 shows off its paradigm-shifting polymer

Here in San Francisco, company offers dentists special pricing for premium alternative to metal partials

By Solvay Dental 360 Staff

Solvay Dental 360™ is bringing Ultaire™ AKP, a high-performance polymer for removable partial denture (RPD) frames, here to the CDA Presents The Art and Science of Dentistry in San Francisco.

Ultaire AKP was specifically designed to fill the gap between metal RPDs, which can be too rigid and stiff, and other polymer frame materials that can be too flexible.

Here at the show, Solvay Dental 360 will have a special offer for dentists who visit its booth: two Ultaire AKP partials for the price of one. To receive the offer, dentists can stop by booth No. 2132.

“Dentists and patients alike are demanding better materials for RPDs, and Ultaire AKP delivers in a way that metal and other polymer options simply cannot,” says Shawn Shorrock, global director, Solvay Dental 360. “We saw an unmet need to replace metal in dental materials, similar to other markets we serve such as orthopedic and cardiovascular, and we worked closely with dentists to ensure Ultaire AKP best serves their needs and those of their patients.”

As patients become more aware of the effects of metal – the potential allergies, toxicity and taste – they are also becoming more proactive, asking for partial dentures that feel natural, comfortable and are esthetically appealing. Ultaire AKP is an innovative Aryl Ketone polymer that provides a biocompatible, lightweight, metal-free, non-irritating and more esthetically pleasing alternative to traditional metal RPD frames, according to the company.

Ultaire AKP is a rigid material – not flexible – suitable as a metal replacement and different than the other non-metal materials currently on the market, the company asserts. It is both strong enough and tough enough to be tooth-supported and help reduce bone loss, yet it is flexible enough to engage undercuts more deeply.

Making multiple adjustments to a milled RPD can be time-consuming and frustrating for patients and dentists alike. Furthermore, months or even years of adjustments tend to wear down once-healthy teeth. Not only does Ultaire AKP provide an esthetically pleasing, biocompatible alternative to metal, once an RPD made out of Ultaire AKP is designed and fitted, adjustments should not be necessary – saving the dentist and patient valuable time.

“Ultaire AKP is a paradigm-shifting polymer – it really hits the sweet spot between metal and the flexible systems on the market today,” says Ryan Murphy, PhD, technology manager and polymer scientist at Solvay Dental 360.

“Ultaire AKP is a paradigm-shifting polymer developed specifically for RPDs. There is no direct one-to-one comparison to any of the metal or polymer systems that are currently on the market for RPDs.”

Solvay Dental 360 is a part of the global company Solvay, a leader in high-performance polymers used in the health-care industry for medical and dental devices, equipment and instrumentation, including implantable applications.

With more than 35 brands in more than 1,500 formulations, Solvay has the broadest portfolio of high-performance health-care polymers in the world, the company asserts.

Additional information and conditions of the promotion can be found at SolvayDental360.com.
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Visit us at BOOTH #528.
Crosstex expands dental water solutions portfolio with entry into amalgam separation category

By Crosstex Staff

Cantel Medical Corp. subsidiary, Crosstex International, has announced its entry into the dental wastewater management market through the recent launch of Syclone™ Amalgam Separator, previously marketed and sold under the brand name Apavia® Amalgam Separator.

This new filtration technology and related assets were recently acquired from ENPRESS LLC and its subsidiary Apavia LLC.

The Syclone Amalgam Separator captures mercury-containing amalgam particles from the wastewater of dental offices through a combination of mechanisms, including filtration and centrifugation.

In addition, it features a high-containment capacity for extended service and pump life and cutting-edge cyclonic action with rapid velocity and waste capture.

“As a market leader, we are committed to staying at the forefront of the latest industry trends and to providing quality solutions that meet the compliance needs of dental practices. With the Syclone filtration technology, we can effectively support the hundreds of thousands of dental practices in meeting the requirement of removing mercury from wastewater and contributing to a cleaner environment,” said Gary Steinberg, president and CEO of Crosstex.

Learn more about the Syclone Amalgam Separator at the Crosstex booth, No. 1412. For additional information, visit www.crosstex.com.

Here in San Francisco

To see the Syclone Amalgam Separator and learn more about it, stop by the Crosstex booth, No. 1412.
Do You Know DenMat?

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DenMat’s expert customer care representatives are here for you every step of the way.
Headlights: Now in high-definition

By Designs for Vision Staff

- Designs for Vision is showing off an advanced photonic design that provides uniform light distribution with maximum intensity.
- The patent-pending headlights optically focus the light from the LED to provide 45 percent more light with uniform distribution.
- The new LED DayLite® Micro HDi™ combines the new high-definition imaging with a very lightweight headlight in combination with the new Micro power pack, according to the company, which says the Micro power pack is the lightest and smallest available. The complete unit includes two power packs, and each power pack can run up to 10 hours.
- Designs for Vision has also added the high-definition imaging to LED DayLite WireLess Mini HDi, providing a lightweight, cordless solution with light intensity comparable to many corded headlights. You can choose high-definition imaging with either a wired or wireless design to meet your preference, and all HDi headlights will illuminate the entire oral cavity.
- Designs for Vision’s WireLess headlights free you from being tethered to a battery pack. The simple modular designs uncouple the headlights 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 headlights are independent of any frame/loupes.
- In addition, Designs for Vision is also featuring the REALITY 5-star rated The Micro 3.5EF Scopes, which utilize a revolutionary optical design that reduces the size of the prismatic telescope by 50 percent and reduces the weight by 40 percent while providing an expanded field, full oral cavity view at 3.5x magnification.
- Building on the award-winning design, the newest addition to the Micro Series line is the Micro 4.5EF Scopes. These scopes reduce both the size and weight of the telescopes by 44 percent.

On the move

Designs for Vision has expanded into a new 67,500-square-foot location at 4000 Veterans Memorial Highway in Bohemia, N.Y.

You can visit www.DesignsForVision.com/move.htm to check out some photos of the new facility.
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In March, during the Hinman Dental Meeting in Atlanta, Planmeca USA introduced a certification program designed to encourage dialogue between patients and dental practitioners on imaging radiation levels.

The Helsinki, Finland-based dental technology company, with North American headquarters in Roseille, Ill., manufactures and sells imaging equipment, such as the Planmeca ProMax® 3D family of units. This CBCT system has a unique ultra-low-dose (ULD) feature that delivers a lower dose of radiation while achieving imaging quality that allows clinicians to provide an optimal diagnosis.

“A Planmeca ProMax 3D system using ULD can drastically reduce patient radiation by up to 77 percent — without a statistical reduction in image quality,” said Brett Hines, president of Planmeca USA.

Hines cited a study published by Dr. J.B. Ludlow and D. Koivisto that demonstrates radiation doses used in dental imaging can be reduced without loss of diagnostic quality. The company is not aware of any other dental imaging manufacturer with an independent study that can claim the same.

Because of attention in the lay press about this issue, it’s more likely that dental patients, too, may have questions and concerns.

To help encourage these conversations about imaging safety, Planmeca USA developed a complementary ULD certification program exclusively for Planmeca ProMax 3D ULD-capable systems.

**ULD certification program features:**

- Planmeca ULD certified office display materials to inform patients that you are using advanced safety/quality care X-ray equipment.
- Access to downloadable digital materials for use on your website and social media outlets to educate and market your practice as Planmeca ULD certified.
- Ability to become part of a searchable database of Planmeca ULD certified dentists, for prospective patients who seek low-radiation imaging practices in their area.
- A complimentary program available to all practices using Planmeca ProMax 3D Ultra Low Dose enabled systems.

The Planmeca ULD certification registration program is available at [www.planmeca.com/na/uld/](http://www.planmeca.com/na/uld/).

To see the study, go to [https://goo.gl/UPW5vL](https://goo.gl/UPW5vL).
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BOOTH 928
SF-2018 CDA
Glidewell Dental to present its second educational symposium near Washington, D.C.

By Glidewell Dental Staff

Glidewell Dental, a leading technological innovator in restorative dentistry for more than 48 years, has announced the second Glidewell Dental Symposium. Scheduled for Oct. 19 and 20, at the Gaylord National Resort & Convention Center in National Harbor, Md., near Washington, D.C., this event will include more than a dozen prominent educators providing two days of intensive instruction, with a first day of fast-paced presentations and a second day of in-depth clinical and business training.

“Dentists have more options for treating patients today than ever before,” said Dr. Neil Park, scientific chair of the Glidewell Symposium and vice president of clinical affairs at Glidewell Dental. “This period of rapid innovation in dental technology presents many opportunities for clinicians to expand their knowledge and practice offerings and to explore more effective and efficient solutions for elevating the standard of care within our profession.”

The symposium brings together notable experts from many different backgrounds and specialties, including esthetic dentistry, digital dentistry, dental implants, tissue regeneration, sleep-related dentistry, practice management and more.

The event kicks off Friday, Oct. 19, with a presentation on the current and future state of dentistry from Jim Glidewell, CDT, president and CEO of Glidewell Dental, followed by an energizing lineup of informative presentations and a very special keynote address delivered by Dr. Jack Hahn, a legendary pioneer in dental implantology.

On Saturday, Oct. 20, in-depth, hands-on workshops will be led by some of the most distinguished leaders in clinical dentistry, representing faculties such as the Misch International Implant Institute, the International Congress of Oral Implantologists and the American Academy of Implant Dentistry.

The workshops will provide practical clinical information on the latest innovations, protocols, products and procedures in the field, so that clinicians can immediately implement focused techniques into their practice when they return to the office on Monday.

“Following the success of last year’s sold-out symposium, we received an abundance of feedback from attendees who expressed their desire for refining their clinical skills and adopting the latest technology to grow their practice,” said Park. “They inspired us to expand the event to two days, to cover even more clinical and business topics, with nearly a dozen hands-on Saturday workshops to choose from. And we’ve moved to a more spacious venue to accommodate a vast array of interactive exhibits and technology demonstrations.”

During both days of the event, the exhibition floor will be packed with displays of 3-D printing, intraoral scanning, in-office milling, the CAD/CAM workflow, dental implants and regenerative and restorative materials, as well as live demonstrations and a virtual reality tour of Glidewell Dental’s expansive R&D campus, technology center and laboratory.

The 2018 Glidewell Dental Symposium is designed for dentists, hygienists and chairside and front-office auxiliaries, and attendees enrolled for both days will earn up to 12 hours of C.E. credits. Tuition for day 1 is $195 and day 2 is $150.

On Friday, tuition includes a complimentary breakfast, lunch and cocktail reception with hosted bar; Saturday tuition includes breakfast.

For the complete symposium agenda and to register, visit glidewell symposium.com or call (866) 791-9539.

Here in San Francisco

To learn more about the Glidewell Dental Symposium, stop by the booth, No. 1303. For the complete symposium agenda and to register, visit glidewell symposium.com.