By Robert Selleck, today Staff

If you have been thinking about joining the dental laser revolution, the GNYDM exhibit hall is a great place to take your first steps. Hands-on opportunities seem to be available from laser companies in almost every aisle — and more times than not, a dentist or hygienist can be seen testing out the technology.

That was the case on Tuesday, with many attendees perhaps inspired by that morning’s live dentistry session: “The laser LANAP Protocol for treatment of periodontitis: A live patient demonstration,” performed by Dr. Yetta G. McCullom and sponsored...
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LASER (from page 1)

by Millennium Dental Technologies. The live dentistry arena was filled to capacity for the presentation, and the audience peppered McCullom with a wide range of detailed questions following the procedure.

Among the attendees was Nelly Nunez, DDS, who with a partner has a general-dentistry practice on 40th Street in Manhattan: Holland Dental.

“It was really interesting,” Nunez said of McCullom’s session. “I liked it. The doctor was very good. She did a great job of taking us through the procedure step by step. It was very informative.”

Later in the day, McCullom was in the Fotona booth (No. 3433), learning about the Lightwalker ATS dual wavelength Nd:YAG and Erbium laser in a 20-minute session on peri-implantitis presented by Dr. Mike Egan. It was the third laser booth of the day for McCullom, following her visits to Millennium in booth No. 3834 (inspired by the live LANAP Protocol treatment of periodontitis on the live dentistry stage in the exhibit hall Tuesday morning).

“We’re planning to get one or maybe even two lasers for the practice this year,” Nunez said, primarily to keep more peri-implant patients with the practice. Nunez said she is attracted to the idea of patients experiencing little if any pain, minimal if any swelling and less stress.

In the Fotona booth, Nunez was impressed with the Lightwalker’s ability to work within two spectrums. “That really adds functionality,” Nunez said. But, she and her partner are still debating what the final choice will be.

In the Biolase booth, numerous demonstration stations are set up to enable attendees to try or watch the recently launched Waterlase Express all-tissue laser system in action. Also available to check out is the company’s recently launched Side Firing Tip, which is designed to be used for moderate to severe peri-implantitis.

In booth No. 4639, Dr. John Greber will show you how to use the PioneerPro and PioneerElite soft-tissue diode lasers from Pioneer Lasers. The units’ portability and affordability are among their major attractions, along with multiple preset soft-tissue procedures. Falling a bit outside of the laser camp, but providing similar benefits to patients and practitioners, is the Gentle Wave Procedure, which you can test out in the Sonendo booth, No. 1504. The alternative root canal therapy uses “Multisonic Ultracean- ing” to deliver a vortex of procedure fluids and a broad-spectrum acoustic technology to thoroughly clean each canal from crown to apex.

Dr. Yetta G. McCullom answers questions from the audience after performing the LANAP Protocol for treatment of periodontitis on the live dentistry stage in the exhibit hall Tuesday morning.
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Scenes from Tuesday

- The reps at the Straumann booth (No. 1024).

- Kyle Valenzuela, left, and Jason DeCosta of RGP Dental (booth No. 1015).

- A presenter at ACTEON North America (booth No. 4827) offers a hands-on demonstration to meeting attendees.

- Elisabeth Lisican of the American Association of Endodontists (AAE), booth No. 4437.

- From left: Quay Cho, Dinesh Weerasinghe and Manabu Suzuki of Kuraray America (booth No. 2009).

- Douglas L. Lambert, DDS, presents ‘Cement? Bond? Glue? Learn What to Do’ in an exhibit-hall classroom Tuesday morning. Lambert presented several educational sessions at this year’s meeting. (Photo/Robert Selleck, today Staff)

- Emiko Ota of Osada (booth No. 2710).

- Joe Marino of Digital Doc (booth No. 3225).

Photos by Fred Michmershuizen, today Staff.
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- Clinical case and photography courtesy of Paresh B. Patel, DDS.

GNYDM Presentation Schedule with Justin Chi, DDS, CDT

**Note:** Times listed will be promoted and additional presentations can be added based on booth traffic.

**Sunday, 11/26**  Presentation
10:30 a.m. .......... glidewell.io In-Office Solution
11:30 a.m. .......... Materials for Modern Dentistry
2:00 p.m. .......... PFM Re-engineered
3:00 p.m. .......... glidewell.io In-Office Solution

**Monday, 11/27**  Presentation
10:30 a.m. .......... glidewell.io In-Office Solution
11:30 a.m. .......... Materials for Modern Dentistry
1:30 p.m. .......... PFM Re-engineered
2:30 p.m. .......... glidewell.io In-Office Solution

**Tuesday, 11/28**  Presentation
10:00 a.m. .......... Materials for Modern Dentistry
11:00 a.m. .......... glidewell.io In-Office Solution
1:00 p.m. .......... PFM Re-engineered

**Wednesday, 11/29**  Presentation
10:00 a.m. .......... glidewell.io In-Office Solution
11:00 a.m. .......... Materials for Modern Dentistry
1:00 p.m. - 4:00 p.m. .......... Science Meets Real-World Dentistry: Innovations for Increased Patient Satisfaction

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Brooke Taylor of Henry Schein Dental (booth No. 4225).

Max Cooper of E4D/Planmeca (booth No. 5425).

Nicole Osman of Ormco/KaVo Kerr Group (booth No. 4618).

Karolina Kierkowska of NSK America (booth No. 400).

From left: Parker Beller, Chasen Glenn, Ally Crawford and Alex Kugler of Bankers Healthcare Group (BHG, booth No. 427).

Ricardo Gonzalez of DoWell at booth No. 1312. (Photo/Humberto Estrada, today Staff)

Dr. Jeremy N. Krell of Quip (booth No. 1114).

The live dentistry arena on the exhibit hall floor is filled with meeting attendees.

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Booth #5425
At the Amazon Business booth (No. 4737) are, from left, Jason Folk of Sikka Software, Brienna Schroeder of Komet USA and Josh Jobe of Sikka Software.

Koichi Arakawa, left, and Michaela Pavlic of Mani (booth No. 4536).

From left: Kathie Turner, Marquita Garcia, Susie LaFredo and Leslie Stevens at the Ortho-Tain/Healthy Start booth (No. 2412).

Dr. Jamie Oshidar presents ‘Business Basics for the Implant Office’ at the Advanced Implant Education (AIE) pavilion on the exhibit hall floor.

Robert Lerman of Aqualizer by Jumar Corp. (booth No. 1608).

Chigo Ugoalah, left, and Ben Schoen of Orascoptic (booth No. 4618).

From left: Joel Featherstone, Nathan Hult and Melissa Flygare of CAO Group (booth No. 4538).

Daniel S. Kim, left, and Josh Kim of ContacEZ (booth No. 3424). Daniel Kim invented the ContactEZ Diamond Dental Strip, among other products.

From left: Kathie Turner, Marquita Garcia, Susie LaFredo and Leslie Stevens at the Ortho-Tain/Healthy Start booth (No. 2412).
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The folks at ClearCorrect (booth No. 5034).

Justin Maurer, left, and Craig Goldstein of Polaroid Dental Imaging (booth No. 4435).

Irene Brulet of Fialkoff Dental Study Club (booth No. 5138).

Integrated Dental Systems offers learning opportunities at booths Nos. 600/801. (Photo/Humberto Estrada, today Staff)
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EyeSpecial digital camera adds features for faster and easier use

Pre-programmed shooting modes enable users to navigate through tasks without need of extensive photographic knowledge or experience

By Shofu Dental Staff

According to Shofu Dental, capturing high-quality clinical photographs in a predictable and consistent manner has been the hallmark of EyeSpecial C-2, the first digital camera designed exclusively for dentistry.

A third-time recipient of the prestigious Cellerant’s Best in Class Technology Award, the EyeSpecial C-2 captures images for case documentation, diagnosis and treatment planning, patient communication and education, insurance verification, legal documentation and dental lab collaboration.

Proprietary to Shofu’s camera are dental-specific, pre-programmed shooting modes that enable clinicians, assistants, hygienists and dental laboratory technicians to navigate through their photography tasks without the need of extensive photographic knowledge or experience.

For instance, in order to record orthodontic photographs with the EyeSpecial camera, an operator will just need to select the button corresponding to FACE MODE to capture extraoral images.

In a similar method, an operator will choose STANDARD MODE to achieve anterior and buccal intraoral photographs, and MIRROR MODE to accomplish occlusal pictures.

For every step of any photo series, the EyeSpecial will automatically set the appropriate f-stop, aperture and focal length to deliver an ideal photograph, leaving an operator with the selection of a pre-programmed mode.

Incorporating intuitive, high-tech functions tailored specifically for dentistry, the EyeSpecial camera is designed to handle dental applications without requiring any retrofitted add-ons. Specifically, one of the more useful features of Shofu’s camera is the ISOLATE SHADE MODE, which instantly grays out the gingival tissue to improve visual perpicacity for accurate shade analysis and communication with a dental laboratory technician.

When combined with a draw/edit function, which allows for making notes directly on images, this attribute may be of a value for an effective treatment evaluation or a discussion about the progress or challenges in a treatment modality.

Equipped with a cropped-frame, high-resolution sensor and ultra-innovative FlashMatic module, a proprietary system of ring and dual-point flashes, Shofu’s camera demonstrates true-color reproduction and an exceptional depth-of-field range, according to the company.

Engineered to provide functionality, the ultralight (weighing ca. 1 lb) EyeSpecial camera complies with the most stringent infection control protocols. The heavy-duty camera’s body is water-, chemical- and scratch-resistant, and it can be swiftly disinfected with a sterilizing towelette, virtually eliminating the possibility of cross-contamination.

The latest model of this smart camera, EyeSpecial C-3, is packed with plenty of milestone upgrades, including a larger sensor, a faster processor, optimized software and a higher resolution LCD screen, all of which will help the entire dental team achieve their photography tasks in a more intuitive, faster and easier fashion, the company asserts.

For a live camera demonstration and to learn how the new EyeSpecial C-3 can improve communication with your dental laboratory and patients, please visit Shofu’s booth, No. 945.
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**TODAY'S SCHEDULE**

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11:00AM **MARKETING MYTHS & REALITIES FOR DENTISTS**

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**GLASS CLASSROOM #5800**

9:45AM-12:45PM
50 THINGS YOU DIDN'T KNOW DENTRIX COULD DO
By: Miranda Reed

2:00PM-5:00PM
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By: Wendy Briggs

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By Robert Selleck, today Staff

One of the most popular giveaways in the GNYDM exhibit hall in recent years has been the bone augmentation sample available from J. Morita USA (booth No. 4615). The company’s Foundation collagen-based bone filling augmentation material, introduced in the United States five years ago, has quickly become one of the most sought after on the market.

As a bonus, though, if you listen to a quick overview about the material’s benefits in the booth, you can also walk away with a small but powerful Bluetooth speaker — another highly popular giveaway.

And while the speaker is really cool, it’s details about Foundation that the folks in the J. Morita booth would really like you to listen to.

“There is no other product on the market that grows bone this quickly,” said Walid Wardaki, vice president merchandise sales with J. Morita USA, after affirming one of the material’s most appealing qualities: Clinical studies have repeatedly documented the material’s ability to quickly stimulate new bone growth, enabling implants to be placed as early as eight weeks after an extraction.

But it’s not just the material’s speed that has converted so many users from their prior materials of choice. “It’s far less labor-intensive,” Wardaki said. “There is no mixing and no need to place a membrane, which alone can cost $100.” Wardaki said that means the cost of a Foundation plug is less than the cost of a typical membrane alone — and far lower in cost than human bone and other augmentation materials.

The material was developed by J. Morita researchers in Japan 12 years ago, initially in sheet form to help burn victims. The material was so successful, though, it prompted researchers to investigate how it would perform in dentistry to stimulate bone growth. The results were immediately impressive, and the product quickly claimed 95 percent of the Japanese dental bone-augmentation market.

“The secret behind it, or what makes it so unique,” Wardaki said, “is that the researchers learned that (in the manufacturing), if you heat 100-percent bovine collagen, it will perform much more effectively.” The surrounding cells and capillaries infiltrate into the material much more quickly.

If you’re unable to visit the booth to learn more — and get your free Bluetooth speaker — you can request a sample plug of Foundation (in an individual sterilized packet and container) via the J. Morita website, www.morita.com/usa. The material comes in two sizes of plugs, or “bullets,” small and medium. It is sold in three packaging choices: 10 small, five medium or a mix of three small and three medium.
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Today’s dentists can choose between a number of proven restorative materials. There has been a large decline in porcelain fused to metal (PFM) crown restorations in favor of increasingly popular lithium disilicate and zirconia restorations. These newer materials are stronger and more esthetic. However, many practitioners have found that most self-adhesive luting cements do not interact well with these materials and other substrates.

According to Essential Dental Systems, its Envy Self-Etch, Self-Adhesive Cement is a new advancement in multisurface adhesive technology — even solving the problem of adhesion to zirconia. The company describes Envy as a “simple, time-saving, cost-effective, one-step solution.” Envy’s chemistry provides tack curing for easy cleanup and ensures virtually no post-operative sensitivity, the company asserts.

Clinicians such as Steven Richards, DMD, who has placed more than 100 units with Envy, appreciate the versatility of the cement. Richards, of Cedar Spring Family Dentistry in Spartanburg, S.C., said: “Envy provides more consistent bonding with all zirconia and all ceramics. The ‘Tack-and-Wave’ cleanup is easy for both the dentist and patient, and we have had no reports of post-operative sensitivity.”

Complete information about Envy is available at www.edsdental.com/envy.
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Dentatus Profin system simplifies shaping

Offering safe and precise contouring, finishing and polishing of hard-to-access surfaces

By Dentatus Staff

The Profin Reciprocating System is the instrument of choice for shaping and finishing hard-to-access surfaces. Modern dentistry emphasizes esthetics and shaping restorations to consistent clinical standards of form and function.

With Profin, a variety of safe-sided diamond-coated Lamineer® Tips, used in a 1.2 mm linear reciprocating motion, can fit into areas without ditching or damaging adjacent surfaces, according to Dentatus.

Depending upon the color-coded grit chosen, the tips are designed to facilitate gross reduction, shaping, finishing or polishing in hard-to-access areas. Tips can either rotate freely to follow natural contours or be fixed for controlled detailing and shaping of all restorative materials: enamel, dentin, cementum, composite, porcelain, ceramics, amalgam and metals.

When used in place of finishing strips, in the free-floating mode, the tips provide delicate control to shape and polish both the curved and flat surfaces to optimize esthetic form in the gingival, interproximal, facial and incisal areas.

The many benefits and features include:

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By COLTENE Staff

BRILLIANT EverGlow is what COLTENE calls its highly esthetic, universal submicron hybrid composite.

According to the company, EverGlow is distinguished by easy polishability, gloss retention, ideal handling and exceptional blending properties thanks to the duo shade system.

All BRILLIANT EverGlow universal, translucent and opaque shades are available in a 3 g syringe or 0.2 g tip refills or kits.

A starter kit includes an assortment of four commonly used universal and translucent shades.

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 esthetic restorations to be performed in minimal time—especially, the company asserts, when used with COLTENE’s ALPEN ShapeGuard Composite Plus polishers.

ALPEN ShapeGuard Composite Plus pairs beautifully with BRILLIANT EverGlow, according to the company.

ALPEN ShapeGuard Polishers offer a simple two-step polishing system for fast, easy and intuitive finishing and polishing, according to the company. Flexible polishing lamellae offer an outstanding advantage when contouring newly formed composite restorations.

ALPEN ShapeGuard Polishers are available in Step 1 and Step 2 refill packs as well as assorted packs.

For more information on BRILLIANT EverGlow and Alpen ShapeGuard, visit coltene.com. Visit the company at booth No. 2137 to try BRILLIANT EverGlow and ALPEN ShapeGuard. Be sure to ask about current promotions for both products.

Here in New York

To check out BRILLIANT EverGlow and ALPEN ShapeGuard, and for current promotions on both products, stop by the COLTENE booth, No. 4016.
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SONENDO.COM
One material for virtually any indication in the mouth

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 Glidewell, the company behind the product, 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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Quality mark affirms implant cleanliness

Residues on sterile-packaged implants, in particular organic particles from the production or packaging process, are highly suspected of being responsible for an incomplete osseointegration of dental implants or even a loss of bone in the early healing period. Studies from recent years have shown that neither the CE mark (designating European Conformity) nor FDA clearance can provide a reliable indication of the cleanliness of dental implants. In March 2017, a new initiative was presented at the IDS in Cologne, which is focusing on this topic for the protection of both the users and the patients.

In three consecutive studies using scanning electron microscopes, scientists with the University of Cologne and the Charité-University Berlin analyzed more than 200 sterile-packaged implants since 2007. Results from the most recent study and comparisons with previous years showed a noteworthy increase in implants with conspicuous residues. With growing numbers of practitioners raising concerns about a biologic answer to these impurities, questions also arise about possible legal implications. Because of the variety of implant systems, it has become difficult for the individual dentist to identify which implants are not affected by these impurities.

In response, the CleanImplant Foundation has set itself the goal of providing such information worldwide. The independent nonprofit organization is supported by a scientific advisory board that is chaired by scientists and practitioners, including Prof. Tomas Albrektsson (University of Gothenburg, Sweden), Prof. Ann Wennerberg (Malmö University, Sweden), Prof. Florian Beuer (Charité-University Medicine Berlin, Germany), Prof. Jaafar Mouhyi (University of Agadir, Morocco), Luigi Canullo (Rome, Italy) and Michael Norton (London, U.K.), who is president of the U.S. Academy of Osseointegration.

In September 2017, this group of scientists released a consensus paper providing objective evaluation criteria for enabling a “clean implant” to carry the “Trusted Quality” award for a two-year period. The 20-pages document is available for download on the project website.

This new global quality mark is designed to enable clinicians to see at a glance whether the appropriate type of implant meets a minimum of cleanliness. Through a five-step approach, the Trusted Quality award can be earned by implants demonstrating in a comprehensive neutral analysis that they are free of significant organic impurities (Figs. 1 and 2) and free of particles containing copper, chromium, nickel, iron, tin, zinc, bronze, stainless steel or particles of antimony on the implant surface.

Technically, it is possible to produce residue-free implants, as many of the implants demonstrated in the recent quality assessment studies. However, if quality control steps are reduced for production or economic reasons, medical devices of inferior quality can result—despite CE certification and/or FDA clearance.

For the Quality Mark awarding process, five implants per type are examined, with at least two of those bought through blind purchase from practices. The analytical reports are screened and released by the CleanImplant scientific advisory board in a peer-review process.

“The biggest difference to all previous attempts to develop such a quality mark is that we not only re-evaluate the results with new implants of the same type every two years, but also regularly tighten the criteria for this quality mark. Thus, the existing analytics will be substantially expanded in the coming years.”

Results will be published on the project’s website, www.cleanimplant.com, to provide implantologists with comprehensive information about possible implant pollution as well as analysis results of contaminated and clean implants. The project is open to all dentists and manufacturers concerned about the protection of patients from potentially inferior medical devices.

At the European Association for Osseointegration congress in Madrid in October 2017, two implants (Unica from BTI and the T6 implant made by NucleGSS) received the first “Trusted Quality 2017-2018” certificates. One week later the CleanImplant Foundation presented the third award at Tokyo at the 13th Annual Megagen International Symposium to Dr. Kwam Bum Park, active implantologist and CEO of the Korean implant manufacturer (Fig. 3). Implants of many more manufacturers are already in the process of comprehensive analyses and will be published soon, according to the foundation.

According to Albrektsson, the industry should abide to his fundamental guiding principle written in an article a decade ago to not only believe—but know—that the implants being used do not harm patients.

Because patients trust practitioners’ decisions regarding dental implant systems, dentists can benefit from access to an independent guide covering which implant systems meet the expectation of a high-quality medical device.

The CleanImplant Foundation reports that it will support future research on the clinical impact of impurities and extend the periodic analyses of dental implants across the globe to provide dentists with independent research results. Additionally, it will evaluate improvements in the manufacturing process of previously analyzed implants. Details and a newsletter are available at www.cleanimplant.com.

(Source: CleanImplant Foundation)
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