

February 2014

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Vol. 39 No. 02

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Using a mill and excellent materials to make great temporaries.

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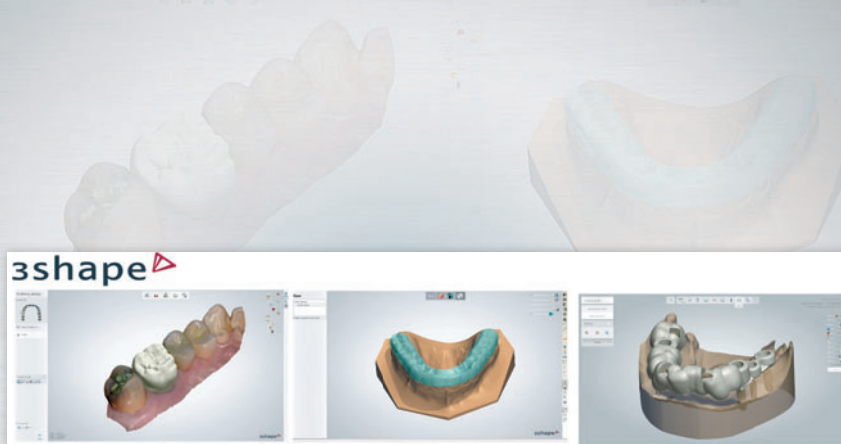
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FRONTIER INSTITUTE

Brilliance Z is a new option in the zirconia world with a variety of applications.
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3SHAPE

The updated Dental System™ 2014 includes plenty of user-friendly upgrades.
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ENAMELITE LLC

The Titanium Ceramic Bonding System is said to provide labs with a reliable, convenient bonding solution.
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The Task-Vision Fresnel Page Magnifier & Stand can help with detail work.
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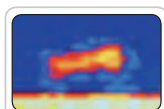
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Dental Lab Products provides dental laboratory owners and managers with unbiased, clear, and concise insights into optimal uses and best applications of new products. Integrating original research, continuing education, and international industry trends, we support laboratory decision-makers in their commitment to deliver optimum patient care through advancing their proficiency, productivity, and profitability.

Later this month, pretty much the entire dental industry will land in Chicago, eager to learn new techniques, see and experience new products and hear about the trends that will affect everyone in the coming years. Between Lab Day, the Chicago Midwinter Meeting, Cal-Lab and the Spectrum dialogue Techno-Clinical Day, February 20, 21 and 22 will bring together the best and brightest from both the clinician and lab worlds to help drive forward the future of dental innovation.

With that weekend in mind, we wanted to put together a guide that will help you, the lab tech and decision-maker, best navigate all the events happening in Chicago. If you turn to page 14, you'll see our article,

"72 Hours in Chicago." In it, we provide an hour-by-hour ultimate guide for you to follow as you attend shows in Chicago. You'll see the new products you need to check out at booths, learn about the seminars you must not miss and discover the speakers everyone will be talking about come late February.

And, of course, we'll be in Chicago! If you see me walking around Lab Day or the Midwinter meeting, please come say "hi!" I'd love to meet you and talk with you about how I and the entire DLP team can do a better job meeting your needs.

I hope you'll find our guide to Chicago helpful, and I hope you have a productive, instructive time. **lab**

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- 02 It avoids tonal misunderstandings**
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- 03 It allows you to be visually on the same page**
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- 04 You can share your knowledge**
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- 05 It's easier than ever**
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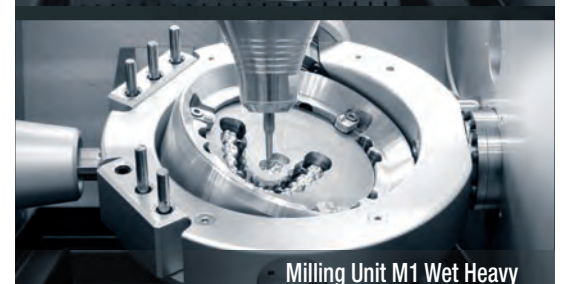
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What lab owners and technicians were searching for and savoring in January@dlpmagazine.com

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by Tom Zaleske

03 3Shape's Dental System™ 2014 includes a new user interface, optimized workflows and more

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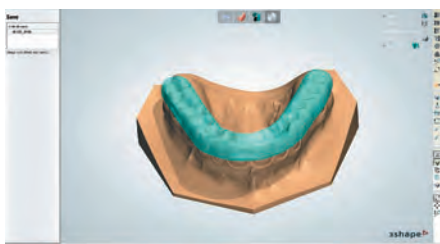
Roland DGA DWX-50 Update

The DWX-50 dental CAD/CAM milling machine has earned 3M ESPE's approval for Lava Ultimate Restorative resin nano ceramic material. When paired up, the **DWX-50 and Lava Ultimate Restorative** are said to be an ideal way to bring outsourced work in house. The milling machine's 5-axis simultaneous machining capabilities, as well as a 5-station automatic tool changer, reportedly streamlines production, while open architecture design offers seamless integration with commercially available CAD/CAM software and hardware.

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Luke S. Kahng, CDT

Long-term temporary with CAD/CAM

Using a milling machine and excellent materials to make a great temporary

As any technician can attest, technology is ever-changing and quickly rewriting the way we fabricate our dental restorations. This includes provisionals, which is what we will discuss in this particular case study.

I had been used to creating temporary restorations using an acrylic heat-cured method, which was both time-consuming and labor-intensive. But with the advantages we see with digital technology by CAD/CAM milling machines for implants, long-term temporary restorations are much more simple to create—even the All-

on-4 type of implant restoration.

This provisional stage is especially important for the technician and patient to determine comfort and fit level for the final prosthesis. Once the patient approves the fit of the provisional, the technician is able to duplicate it for the final restoration.

USING CAD/CAM TO CREATE A LONG-TERM TEMPORARY



Fig. 1 Impression for implants



Fig. 2 After pour-up



Fig. 3 CAD design



Fig. 4 Computer design

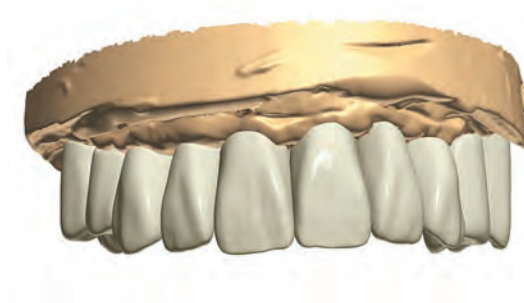


Fig. 5 Front view



Fig. 6 Premiotemp—Multilayered PMMA



Fig. 7 Abutment

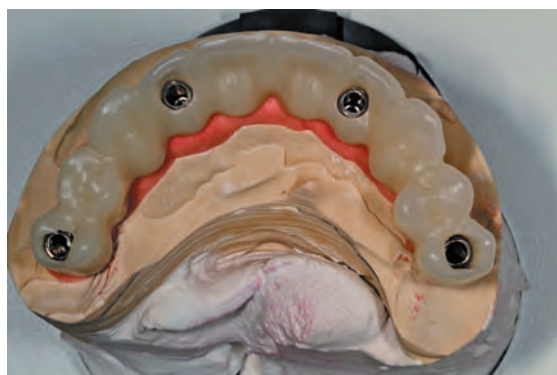


Fig. 8 Fit to die of cast model



Fig. 9 GC Gradia



Fig. 10 Facial view



Fig. 11 Medium pumice, polish



Fig. 12 After clean-up



Fig. 13 Final high-shine polish



Fig. 14 After polish



Fig. 15 Mirrored image

CASE STUDY

01 In Fig. 1, the lab received an impression for an All-on-4 implant case, which is pictured here before pouring up the model.

02 In Fig. 2, the soft model was poured up using the temporary abutment. The CAD design was created by the Amann Girrbach Map 400 Scanner (Fig. 3).

03 In Fig. 4, we see the computer design created by the technician. We are able to use the library to verify access holes to navigate future prosthetic options. In the front view (Fig. 5), the size of teeth, shape and contour is all controlled through this design process. It is easy to work with the software and create a unique design for the patient's particular situation. Premiotemp by Primotec is a multilayered PMMA material that is made with multiple layers—including translucency (Fig. 6). This leads to a very life-like provisional result for the patient.

04 I tried to fit the shape of the restoration to the cylinder of the abutment and screw it all the way down on the model (Fig. 7).

05 Fig. 8 shows the die fit to the cast model. Next, I used GC Gradia Light Cure Dentin material for bonding (Fig. 9).

06 The restoration is next fit to the model in this facial view image (Fig. 10). Using a medium pumice, I applied polish to the restoration (Fig. 11). After cleaning the polish off the restoration, I dried it and inspected it for an appearance check (Fig. 12).

07 Finally, I applied a high shine polish (Fig. 13) and checked the fit on the model (Fig. 14). In the mirrored image, we see the 10-unit provisional implant as a finished restoration (Fig. 15).

CONCLUSION

Prior to this technique being available for technicians, creating a temporary such as this one was much more of a struggle. Now, it's possible to make a better temporary for patients, with excellent results in less time and maximum profit. It's an amazing step in technology, and clinicians should be happier with the worry-free delivery of the patient's restoration in a minimum amount of time. [lab](#)

ABOUT THE AUTHOR

An accomplished dental technician with more than 20 years of experience, Luke S. Kahng, CDT, is the founder and owner of LSK121 Oral Prosthetics, a dental laboratory in Naperville, Ill. He has published more than 85 articles in dental journals, and his lectures have taken him across the United States and internationally. He is the creator of the Chair Side Shade Guide Seasons of Life, 3.0, 4.0, 5.0, 6.0 and 7.0 ceramic shade tabs, which were invented to facilitate effective communication regarding color between doctors, patients and technicians.

Improved ceramic veneer restoration


Using the IPS e.max Press Impulse for great results.

by Michael Beerli, MDT

Value is key in imitating the natural tooth to achieve a lifelike result. In esthetic anterior restorations, the dental technician is ideally involved right from the beginning—even more so, if a diagnostic wax-up, or mock-up, is required to visualize the treatment outcome. However, some situations in everyday practice may make it impossible for the dental technician to be part of the treatment at an early stage and such a case is described in the report below.

PRE-OPERATIVE SITUATION

1. The female patient visited the practice for emergency treatment. In an accident, the incisal edges of the central incisors had broken off. Primary treatment consisted in covering the fractured teeth with a temporary. The esthetic appearance of the temporary restoration was of secondary importance at this stage (Fig. 1). After initial treatment, it was time to initiate the next stage: final treatment planning. A decision was taken to



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Fig. 1 The patient received two temporaries on her upper anterior incisors as an emergency measure. Esthetic concerns were of secondary importance at this point.



Fig. 2 Two veneers were planned for the final treatment. The patient exhibited a very bright tooth shade. A standard shade guide did not allow the tooth shade, or value, to be determined accurately.



Fig. 3 We normally use the Ultimate shade guide for shade selection in bleached teeth. In this case, tab no. 4 matched the value of the natural teeth perfectly.



Fig. 4 Photo editing: Playing with the brightness values provides valuable information about the "inner life" of a tooth.



Fig. 5 If a pressed veneer is held against a light source, its opalescent effects are clearly visible.



Figs. 6-8 Models for creating the wax patterns for the two veneers



Fig. 9 Pressed veneers. The translucent restorations were finished on model dies made of light-curing tooth-colored die material.



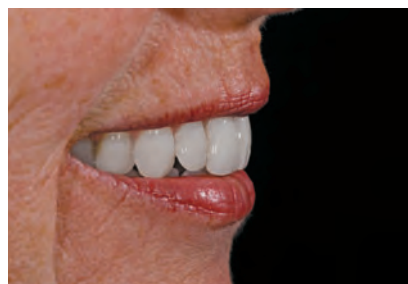
Fig. 10 Veneers with IPS e.max Ceram Essence materials applied onto them. The value was close to the desired final outcome.



Fig. 11 Completed restorations. The surfaces of the adjacent teeth were very smooth and the veneers were finished accordingly.



Fig. 12 To check the value, Figure 11 was processed with the software program and then compared with the reference shade tab.



Figs. 13-15 Once incorporated, the restorations met the expectations of the patient. The natural teeth had been successfully mimicked—the balancing act between value and depth proved to be successful.

use two pressed ceramic veneers for the permanent restoration.

IN THE LAB

2. Being able to talk directly to the patient is an advantage to the dental technician when designing an esthetic restoration. This enables the technician to respond individually to the patient and to gain a better understanding of the patient's desires and expectations. In this case, the patient told us that she had quite prominent incisors and the temporaries were not reflecting her natural smile. Unfortunately, pictures or models of her original oral situation were not available. She also informed us that the two anterior teeth slightly overlapped each other, possibly due to crowding in the upper anterior region and the difference in width of the incisors.

3. The initial situation on the model resembled the case of a minimally invasive veneer restoration; only the enamel surfaces were in need of replacement. In this case, adapting the shape and structure of the anterior teeth was not as much a challenge as recreating their shade and value. The patient presented very bright teeth with a great deal of depth. The teeth seemed to be shining from the inside because of their high opalescence.

4. **Figure 2** shows that the patient's tooth shade could not be determined with standard shade tabs such as the Chromascop or A-D shade guides; the natural teeth seemed to absorb the light, without appearing gray or dark in shade.

5. With this situation in mind, I remembered a shade guide that we usually have lying way back in the "shade tab" drawer: the Ultimate shade guide. Originally meant to reflect bleached teeth, the Ultimate shade guide consists of nine shade

tabs. Although our patient never had her teeth bleached, tab no. 4 exactly showed the brightness and depth that matched her teeth (**Fig. 3**).

SHADE SELECTION WITH DENTAL PHOTOGRAPHY

6. Digital photography and image editing has changed shade selection in recent years. Today, I cannot imagine doing without these helpful tools. Adobe Photoshop and Google's Picasa have become the standard software programs for image editing in our day-to-day work. While the pictures are taken with a fixed set of parameters, they are routinely processed, including white balance, exposure and more. By "playing" with the images, or with the value of the tooth, I can visualize various value zones and obtain an impression of the inside of the tooth, almost like "looking" into it. Picasa is a fast and easy-to-use image editing software. Inside the menu, it contains a "shadow" slider, which increases contrast and lowers brightness. **Figure 4** shows the image after editing. Compared to **Figure 3**, the effects, details, translucence as well as the light absorbing and reflecting zones are clearly visible.

INGOT SELECTION

7. Selecting an appropriate ingot is essential for a successful outcome when working with pressed ceramics. The new IPS e.max® Press Impulse range enables users to realize lifelike results in a rational manner. These ingots are value-based rather than shade-based like conventional ingots. The Impulse range includes Opal ingots, which enable users to replace enamel without individual layering. This is particularly convenient in very thin veneers or in "extremely" white teeth, as in the case described here.

8. How can we imitate these white teeth with their expressive inherent

shade characteristics? The Opal ingots were the answer to this question. Although these ingots are originally intended only for the replacement of enamel, they are ideally suited for situations like ours. The Opal 1 and Opal 2 ingot shades (IPS e.max Press Impulse) allow the press ceramic technique to be used even with a difficult initial situation (**Fig. 5**).

9. After we selected a matching shade tab, we encountered another issue: The shade tab consists of 3 mm of incisal material over a layer of bright dentin. By contrast, the space available in the present situation would only allow for a veneer with a maximum thickness of 0.8 mm. In view of the bright shade and limited space, reproducing the apparent effect of depth presented an additional challenge. We selected an Opal 2 ingot. As we had to extend the incisal edge a little bit and make sure that the incisal preparation line did not show through, we felt that this was a safe choice.

10. The veneers were to be pressed in their full anatomical contour and then customized with the staining technique. The wax pattern was created in line with the envisaged restoration; some areas were slightly overcontoured (**Figs. 6 to 8**). Sprueing, investing and pressing were performed according to the manufacturer's directions.

11. Since the ingot selected (IPS e.max Impulse Opal 2) is very translucent, the shade of the natural tooth abutment (die) was mimicked to achieve the desired shade in the final restorations (**Fig. 9**). Light-curing IPS Natural Die material is ideally suited for this purpose. This tooth-colored composite is utilized to prepare a die, facilitating the work with HT or Value and Opal ingots. Rubber wheels as well as green and diamond impregnated stones were employed for finishing the restorations (shape, morphol-

ogy) and for creating the surface texture.

Figure 10 shows the veneers with the Essence material (IPS e.max Ceram) applied onto them. The added shade tab indicates that we are very close to the desired final shade and we are also right on target to meet the most formidable challenge of this case: the value.

12. Before the veneers were tried in on the patient, her natural teeth (abutments) were wetted with fluid (Vaseline or try-in paste)—without fluid, the air between the restoration and the natural tooth structure would block the light and adversely affect the evaluation of the shade.

13. Usually, I finalize the surface structure at the finishing stage, paying attention to matching the smoothness levels to the natural teeth. The glaze was applied in a thin layer and slightly "underfired." Generally, I prefer a manual final polishing (**Fig. 11**). Once polished, the veneers were checked for their accuracy of fit, shape and function on the model. When we assessed the shade—or value—of the veneers, we were left with a positive feeling (**Fig. 12**). We then sent the restorations to the dental practice.

CONCLUSION

This case was challenging. The value in particular required a special approach. We had to recreate the apparent depth, or inherent interplay of shades, without dropping the value (**Figs. 13 to 15**). I was looking forward to hearing back from the dental practice and was pleasantly surprised to learn that the veneers had been successfully incorporated. The IPS e.max Press Impulse Value ingots facilitated the esthetic design of the restorations due to their inherent fluorescence and opalescence. In sum, we now can use the press ceramic technique to achieve a successful outcome even in a challenging situation like this. **lab**



• Komet USA

Komet USA's product and sales representatives will be on hand at the Chicago Midwinter Dental Meeting (Booth 4829) and at Lab Day to demonstrate and discuss the array of Komet® laboratory instruments engineered to meet the challenges of new high-strength ceramic materials as well as other more traditional materials used in all phases of crown, bridge, veneer, inlay/onlay and partial- and full-denture fabrication. Of particular note, Komet USA will focus on a dimension of the lab-dentist communication needed to deliver ideally contoured, perfectly fitting and finished high-performance, high-strength, all-ceramic restorations fabricated with CAD/CAM and conventional techniques. Newly launched Komet® Expert Kits for crown and inlay preparations at chairside are designed to help the dentist produce and convey precise anatomical and functional data to the laboratory for optimal results.

• 3D Systems

The ProJet® 1200 is said to be ideal for small, precise, detail-rich dental wax-ups. Smaller than most coffee makers and faster than baking a cake, this new printer is economical to own, safe to operate anywhere and simple to use. This printer integrates 3D Systems' VisiJet® FTX Green material—a durable and rigid material that is tailored for plastic prototyping and casting patterns, making it ideal for dental labs.

• 3Shape

This year at Chicago, 3Shape will present a wide range of new features that are designed to make TRIOS® even more attractive and profitable. As a part of their subscription, existing TRIOS® owners can get many of these features by simply upgrading their TRIOS® software. 3Shape will also show off their Dental System™ 2014 software (which is provided as an upgrade for 3Shape Dental System™ users as a part of their subscription and LABcare™ package), the new Splint Designer™ module and Implant Studio™.

THURSDAY, FEB 20

8:00 am, Chicago Midwinter Meeting (CMM): Exhibits open at Chicago Midwinter Meeting

9:00 am-12:00 pm, CMM: "CBCT Imaging We Can All Use", Dale Miles, DDS, MS

9:30-10:15 am, Cal-Lab (CL): "Federal & State Regulatory Update", Eric Thorn

10:00-11:00 am, CMM: "Goodbye, Wax and Plaster", Thomas McGarry, DDS

10:30-11:15 am, CL: "Digital Implant Solutions for Titanium Bars & Screw Retained Structures", Mark Maier, MBA, MSc; Susan Van Kinsberg, CDT; Peter Pizzi, CDT, MDT

12:30-1:15 pm, CL: "Social Media: Truths, Perceptions & Myths", Terry Fine

1:15-2:15 pm, CL: "Digital Integration of All Ceramic Reconstructive Dentsistry", Matt Roberts, CDT, AAACD

1:30-4:30 pm, CMM: "New Horizons in Digital Impressions", Fred Peck, DDS

2:30-4:00 pm, CL: "Are You Still Relevant", Ross Shafer, author

4:00 pm, CL: Exhibits open at Cal-Lab

5:30 pm, CMM: Exhibits close at Chicago Midwinter Meeting

6:30 pm, CL: Exhibits close at Cal-Lab

As the dental world converges in Chicago this month, here is our in-depth look at everything going on in the Windy City. We think our guide will give you a great snapshot of where the lab industry is—and where it can go.

compiled by Ryan Hamm

Editor's note: As always, times and events are subject to change (and we couldn't fit everything!), so please consult each show's full schedule for final details.

IN CHICAGO

FRIDAY, FEBRUARY 21

8:00 am, CMM: Exhibit hall at Chicago Midwinter Meeting Opens

8:00-9:00 am, Lab Day Chicago (LDC): "End-to-End CAD/CAM for the Dental Lab," Custom Automated Prosthetics presentation

8:00 am, LDC: B&D Dental Technologies presentations/clinics begin

8:00-10:45 am, LDC: NBC/LMT Written CDT Comprehensive and RG Examinations

8:30-10:30 am, LDC: "Creative Edge Symposium: Begin with End in Hand", presented by Whip Mix, BEGO USA and PREAT Corp.

8:30-9:20 am, Spectrum Dialogue Techno-Clinical Day (SDTC): "Full Arch, Metal-Free CAD/CAM Restorations with TRINIA", Rainier Urdaneta, DMD

8:45-10:00 am, CL: "All-On-4: Planning Today to Prevent Tomorrow's Problems", Dr. Ken Parrish & Joseph Coursey, CDT

9:00-10:30 am, LDC: GC America Presents: "Removable Prosthetics: Fabricating the Exceptional", Thomas Zaleske, CDT

9:00 am-5:00pm, LDC: Vident Lectures and Clinics

9:20-10:10am, SDTC: "Porcelain Build-up Techniques & Important Principles for Anterior Restorations", Yuasa Naoto, CDT

Amann Girrbach America

In addition to its booth in the Lab Day exhibit hall, Amann Girrbach America will also be welcoming visitors to its Amann Girrbach Lab Lounge throughout the day on Saturday, Feb. 22. Amann Girrbach will also be highlighting its new process for seamlessly integrating its design software and milling units with third-party intraoral scanners. This process, called Ceramill iOS, will enable Ceramill-equipped labs to deliver even higher levels of speed, precision and convenience to their customers.

Core3dcentres

Core3dcentres® will be showing off some of their newest offerings and capabilities, including: Core3dcentres acan bodies (now available in 17 different brands and more than 97 different platforms for all implant and bar cases); Core3daCADemy, now offering a full lineup of courses designed for technicians; the new milling supplies from Core3dCenters; and 3D printing services.



Custom Automated Prosthetics

CAP will host five presentations each day of Lab Day (all in the Colorado Room, Level 2), covering a variety of CAD/CAM, workflow and technique topics. See schedule for presentation times and titles.

Aurident

Aurident Inc. is showing their new offering, the Optimet 6000 3D scanner. Utilizing proprietary conoscopic laser holographic technology, highly accurate scans are achievable at 15 µm for single units and 20 µm for bridges up to 14 units. Its 3-axis motorized holder ensures full coverage of undercuts. Call Aurident at (800) 422-7373 to learn more.

DATRON

DATRON's booth is showing their new 5-axis D5 LS (Linear Scales) milling machine. Additionally, DATRON is sponsoring a two-part clinic: Milling Titanium Implant Bars & Custom Abutments In-House. See schedule for details.

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FORWARD Trends 72 HOURS IN CHICAGO

Delcam

Delcam is showing a new version of their DentMILL software, DentMILL 2014. It is the latest release of Delcam's open dental CAM solution, which is designed to mill all types of restorations, including crowns, bridges and implants, from any dental CAD system on the market. It is based on Delcam's award-winning PowerMILL software for high-speed and five-axis machining, and can mill restorations in any material from PMMA to titanium.

EOS

EOS is sponsoring two clinics on Friday at Lab Day. A technician from EOS explains how direct metal laser sintering (DMLS™), a 3D additive printing process using CAD data, can produce about 450 units for crowns and bridges in 24 hours unattended, and how to produce plastic models with laser sintering.

Keystone Industries

Keystone Industries is showcasing one of its biggest sellers, Itsoclear, along with the time-tested Diamond D® Denture Acrylic. You can use Itsoclear clasps for repairs, acrylic partials, cast partials with clear clasps in less than three minutes, to replace metal clasps on existing partials, and Acrylic Nesbit with clear clasps.

Glidewell Laboratories

Glidewell Laboratories will be at both Chicago Midwinter and Lab Day. The products they will be talking about are BruxZir 16, their new digital FastFire oven, inclusive Lab Box and abutment and bar outsourcing. Stop by the Glidewell booth to learn more.

GC America/Renfert/Smile Line

For the first time, GC America, Renfert USA and Smile Line join efforts to present great things. The GC/Renfert prize wheel will be spinning all weekend long in the exhibit hall. All attendees of GC America's Friday and Saturday clinics are eligible to spin for a chance at a prize. Several different prizes will be awarded. There will also be several hands-on demonstrations at GC's booth. Additionally, GC America and Renfert have clinics going on throughout both days of Lab Day Chicago in the Fountain View Room.

Panthera Dental

Panthera Dental is announcing the release of the world's first zirconia bar with tapped attachments completely milled using CAD/CAM technology. Until now, customers have had no possibility to screw attachments such as OT Equator, Ball or Locator attachments into a zirconia bar. With the Panthera zirconia bar, it is now possible. Customers will be able to order their bar starting Feb. 20, 2014.

FRIDAY, FEBRUARY 21

9:30 am, SDCTC: Exhibits open at Spectrum Dialogue Techno-Clinical Day

9:30 am, CMM: "The Evolution of Digital Restorative Dentistry: LIVE", Alex Touchstone, DDS; Angela Guazini, CDD, RDH; Lee Culp, CDT

10:15-11:45 am, CL: "CAD/CAM Panel: Metrics for Digital Production", Jim Gorgol, CDT-Moderator; Don Albensi, CDT; Nelson A. Rego, CDT; & Barbara Wojdan, CDT, AAACD

10:15 am-12:15 pm, LDC: DT Technologies Presents: "CAD/CAM 101", Ryan Johnson

10:30am-12:00 pm, LDC: Panthera Dental Presents: "The Next Generation of Intelligent and Fiscally Responsible CAD/CAM Bars", Ruth Bourke

10:40-11:30 am, SDTCD: "Carving out Your Place in the Digital World", Mark Massey, CDT; Paul Bennet, CDT

10:40-11:30 am, SDTCD: "Restoring the Artistry to Removable", Jim Collis, CDT

11:00-11:30 am, LDC: "Dentalle Inc.: Thrive or Survive: The Choice Is Yours", Mike Adkins, CDT

11:00 am-12:00 pm, LDC: "Creative Edge Symposium: Face, White and Pink to Simplify Complex Restorative Cases," Presented by Whip Mix/PREAT Corp./BEGO USA

11:00 am-12:00pm, LDC: GC America Presents: "Esthetic and Stable Solutions for Implant Dentistry", Mike Dominguez, CDT/TE

11:30 am-12:20 pm, SDTCD: "Maximizing High Esthetics Through CAD/CAM Technologies", Luke Kahng, CDT

11:30 am-12:20 pm, SDTCD: "Full Arch Rehabilitation in a Day: At a Glance", Allen Aptekar, DDS

11:45 AM-12:45 pm, CL: "The State of the Dental Laboratory Industry", Dr. Mark Murphy

12:00-1:30 pm, LDC: NBC/LMT written CDT specialty exams

12:30-1:30 pm, LDC: "Creative Edge Symposium: The Science Behind Today's Milling Materials", Presented by BEGO USA/PREAT Corp./Whip Mix Corp

12:30-1:40 pm, LDC: "Kuraray America Inc. presents CAD/CAM Technology Updates in Dentistry," Michael Bergler, MDT

1:00-2:00 pm, LDC: Custom Automated Prosthetics Presents: "Izir, Screw-Retained Crown and Bridge", Bob Cohen, CDT

1:00-3:00pm, LDC: DATRON Presents: "Milling Titanium Implant Bars & Custom Abutments In-House, Pt. 1: What It Takes to Be Successful"

1:20-2:10 pm, SDTCD: "Implant Prosthesis: Materials and Solutions", Fabio Levratto, MDT

1:20-2:10 pm, SDTCD: "A Digital Approach to the Next Level of Hybrid Reconstruction", Ian Bland, CDT

1:30 pm, LDC: Exhibits open at Lab Day Chicago

1:30-3:00 pm, LDC: GC America Presents: "Plans for Implementing Successful Custom Shade Matching on Esthetic Anterior Cases", Luke Kahng, CDT

1:30-3:30 pm, LDC: Zahn Dental Presents: "Introducing the New Synspar Advance: Hands-On Workshop"

1:30-5:00 pm, LDC: BEGO USA Presents: "Masters of Framework" Lecture and Hands-On Series

2:00-3:00pm, LDC: Avadent Digital Dentures by Global Dental Science, LLC Presents: "This Isn't Your Grandmother's Set of Dentures: The Development & Evolution of Digitally Fabricated Dentures"

2:10-3:00 pm, SDTCD: "EQUILIBRIUM: Criteria and Parameters to Achieve a Balanced Smile", Michel Magne, BS, MDT

2:10-3:00 pm, SDTCD: "No Apologies: Challenging the Prosthodontic Perspective", Brian Carson, CDT

3:00-4:00 pm, LDC: Custom Automated Prosthetics Presents: "Custom Milled Abutments"

3:00-4:00 pm, LDC: DATRON Presents: "Milling Titanium Implant Bars & Custom Abutments In-House, Pt. 2: Calculating the ROI and Profitability for Your Lab"

3:20-4:40 pm, SDTCD: "Zirconium Dioxide as a Fundament in Esthetic Implantology", Luc Rutten, CDT; Patrick Rutten, CDT

3:30-4:10 pm, SDTCD: "Paradigm Shift of Prosthetics", Jeremy Wohlers, CDT

3:30-5:00 pm, LDC: GC America Presents: "The Dental Color Revolution: Matching the Single Crown Shade"

3:30-5:00 pm, LDC: EOS of North America Inc. Presents: "Producing Bridges, Copings, Implants and Models from CAD Data via Laser Sintering—An Industrial 3D Printing Process", Gregor Szwedka, DPL

3:30-5:30 pm, LDC: "Cadblu New Product Review"

4:20-5:10 pm, SDCTD: "Phase 1: Interim Fixed All-on-4 to the Final/Phase 2: Definitive Titanium Prosthesis", Eric Kukucka, DD

4:40-5:30 pm, SDCTD: "I Think I Have a Beautiful Solution for You", Enrico Steger, MDT

5:30 pm, CMM: Exhibit hall closes at Chicago Mid-winter Meeting

5:30-7:00 pm, LDC: Nobel Biocare Presents: "Nobel-Procera Innovation Forum and Reception", Peter Wöhrle, DDS

6:00 pm, LDC: Exhibits close at Lab Day Chicago

6:30 pm, SDTCD: Exhibits close at Spectrum Dialogue Techno-Clinical Day

SATURDAY, FEBRUARY 22

7:30-8:30 am, LDC: Basic exocad clinic

7:30-8:30 am, LDC: Argen Corp. Presents: "Digital A to Z: Bring All your Product Offerings into the Digital Workflow", Marlin Gohn, CDT

7:30-8:30 am, LDC: ProLab Solutions Inc. Presents: "Evolution of Outsourcing: CAD/CAM, Custom Abutments—How Does This Fit Into Your Business Model?", Jim Erb, CDT

7:30-9:30 am, LDC: Nobilium/Ticonium Present: "To Survey or Not to Survey: Common Cast Partial Denture Problems", Elmer Rose, CDT

• **Primotec**

Stop by the primotec USA booth and learn about their new product, PREMIOtemp multilayer. This ultra esthetic PMMA temporary material combines five layers of colors into one disc, giving the restoration the most natural look possible. These gradient discs are composed of special acrylic resins combined with organically modified ceramics for increased translucency and superior mechanical properties. FDA approved and available in a variety of VITA shades.

• **Shofu**

At the Spectrum Dialogue Techno-Clinical Day, Shofu is showcasing Ceramage Indirect Composite as well as Veracia SA Denture Teeth, and Jim Collis will host lectures on February 21 and February 22. Shofu will also be showing the new OneShot HT Press over Pellets (which will enhance the OneShot Uni-layer HT Porcelain) and Dura-Green DIA.

• **Straumann**

Visit the Straumann booth to learn about the Straumann® Variobase™ Abutment*, a customized solution the laboratory can use to fabricate an original Straumann restoration based on the preferred traditional or digital workflow of casting, pressing or Straumann milling. The Ti-alloy abutment is customized with the coping or crown of the lab's choice. Four "cams" help reduce rotational misfit of the coping as compared to designs with one cam. *Pending FDA clearance

• **PREAT/BEGO USA/ Whip Mix**

Featuring table clinic presentations before and after courses, the Creative Edge Symposium consists of three different presentations (see schedule for presentation titles). Beginning at 8:30 a.m., each presentation provides at least one CDT credit. The Symposium is being held in the Columbus Rooms A & B at the Sheraton.

• **VITA, a Vident Company**

Join Vident, A VITA Company, in the Mississippi Room to learn about new and exciting VITA materials, processing equipment and digital technology to help increase your knowledge base, hands-on skills and provide you with real-world dental laboratory techniques. All lectures and demos will be held continuously throughout Friday and Saturday.

• **Zubler**

Zubler will be showing a variety of materials at its booth at Lab Day, including Dental Concept Systems' latest line of zirconia blanks, DC Zircon translucency; Zubler USA's line of PMMA discs; and Zubler USA's line of wax discs. Stop by the booth to see the advantage offered by each solution.



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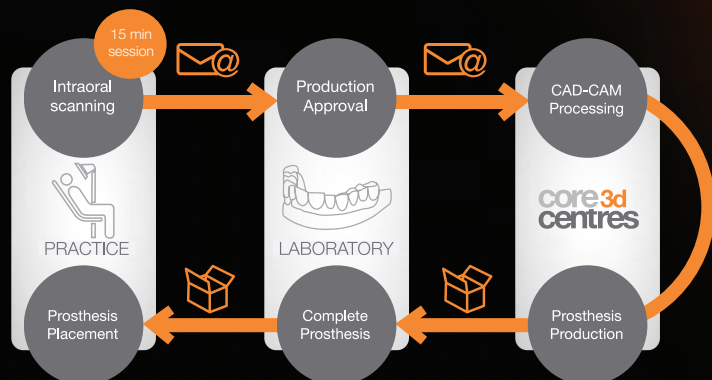
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anaxdent North America

Come by the anaxdent North America booth at Lab Day Chicago to grab a drink and see what anaxdent's composites, acrylics, silicones and flasking systems are all about. On Saturday at 2 p.m., Jaro Urbanski will demonstrate how simple implant denture fabrication can be with the anaxform system. On Saturday at 3 p.m., Victor Castro and Sebastien Mosconi will demonstrate how beautiful and natural CAD/CAM restorations can be by bonding pink composite, light cure stains and enamel composite.

Argen

Argen Corporation is excited to showcase the industry's first and only High Noble Selective Laser Melted (SLM) substructures, ArgenZ™ Transitionally Shaded Esthetic Milled Zirconia and more digital solutions. Argen is the only company in the world to offer High Noble, Noble and Non Precious SLM substructures.

BIOMET 3i

BIOMET 3i's Lab Day Clinic takes place on February 22, 2014 at Lab Day Chicago. The clinic will feature a number of speakers including Simon Ghosh, Wayne Szara, Ryan Napolitano and Karla Plantan. Continuing Education Credits are available at the clinic.

DENTSPLY Implants Clinic

Led by David R. Avery, AAS, CDT, this clinic will focus on how the lab can help with digital solutions. As members of the restorative team, technicians must understand how to determine the best treatment for each patient based on individual function and esthetic requirements. 2 NBC Scientific CDT credits. Location: Superior A, Level 2

envisionTEC

envisionTEC will be showcasing their newly developed digital orthodontic program. This program combines their 3D printing solutions (both printers and materials) into a fully digital workflow.

SATURDAY, FEBRUARY 22

7:30-9:30 am, LDC: Tanaka Dental Presents: "Zirconia Coloring Made Easy by Using Enamel-Colored Zirconia", Shin Ashina, RDT, Asami T., CDT, NMD

8:00 am, LDC: Exhibits open at Lab Day Chicago

8:00 am, LCD: B&D Dental Technologies Clinics/Presentations Begin

8:00 am, CMM: Exhibit hall opens at Chicago Midwinter Meeting

8:00-9:00 am, LDC: PREAT Corp: What's New?

8:00-9:00 am, LDC: Ivoclar Vivadent Presents: "All Ceramic, All Options: Technology in Living Color", Matt Roberts, CDT

8:00-9:00 am, LDC: Dental Wings: DWOS Live-Link™—A Collaborative Breakthrough for Labs and Dentists

8:00-9:00 am, LDC: Zahn Dental Presents: "3Shape Full Contour Design Made Easy", Dave Mobley, CDT

8:00 am-4:30 pm, LDC: Ivoclar Vivadent Presents the Candulor "Art of Denture" Competition and Masterpiece Collection

8:30-9:30 am, LDC: Advanced exocad clinic

8:30-10:30 am, SDTCD: "Mastering the Setup: A Hands-On Course", Jim Collis, CDT

9:00-10:00 am, LDC: PREAT Corp. on New Implant Technologies

9:00-10:30 am, LDC: Amann Girrbach America Presents: "The Importance of Occlusion in CAD/CAM Dentistry", Peter Pizzi, MDT

9:00-10:30 am, LDC: GC America and Renfert Present: "Lost in Translation: A Team Approach to Dentistry"

9:00-11:00 am, LDC: Cadblu Ceramic Workshop

9:00-11:00 am, LDC: Dental Wings Presents: "Cross-Application Integration: Merge DICOM and STL Files in DWOS for Powerful Implant Case Planning and Execution", Larry Stites, CDT

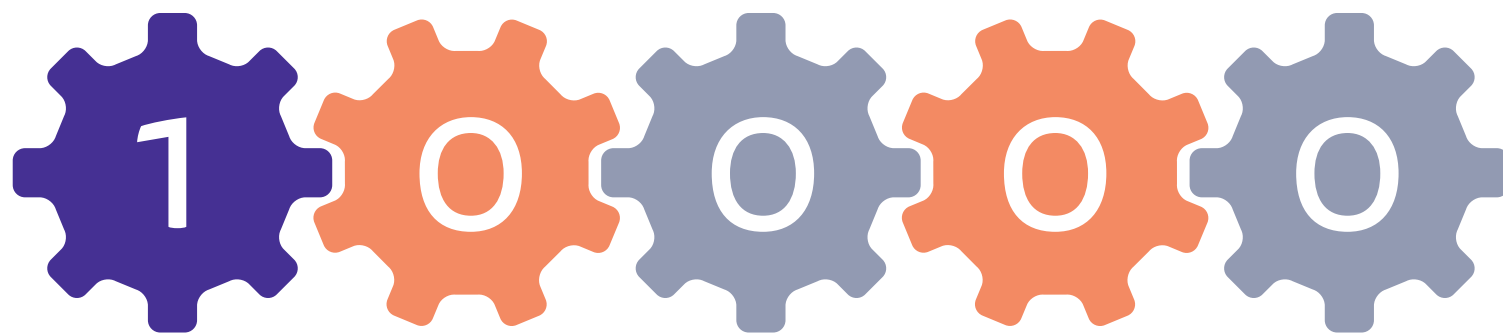
9:00 am-4:00 pm, LDC: DENTSPLY Prosthetics Product Demonstrations

9:00 am-4:00 pm, LDC: BEGO USA Technical Mastery Series

9:00 am-5:00 pm, LDC: Vident lectures and demonstrations

9:00-11:00 am, LDC: Whip Mix Presents: "Your Digital Journey: A Conversation with Mark Jackson and Al Fillastre"

10:00-11:00 am, LDC: Custom Automated Prosthetics Present: "TRIOS Digital Impression and New Workflows"



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• Heraeus Kulzer/Stratasys/Dental Wings

Heraeus Kulzer, Dental Wings and Stratasys are working together to redefine chairside digitization of VPS impression material. Chairside impression scanning brings all the advantages of dental CAD/CAM without changing impression taking protocol or forcing dentists to learn a new technology. Learn more at Lab Day and the Chicago Midwinter Meeting booths for each company.

• Ivoclar Vivadent

Ivoclar Vivadent is presenting a number of lectures on February 22, all under the umbrella of "All Ceramic, All Options" (see schedule for specific topics). Each presentation will take place in Chicago 6, Ballroom Level. Speakers like Lee Culp, Matt Roberts, Nelson Rego and others will present on a variety of topics all designed to push your lab forward.

• Roland DGA

Roland will showcase its DWX dental milling machines, including the award-winning DWX-50 5-axis mill and the new DWX-4 compact dental mill. With DWX mills, laboratories get all the benefits of the Roland Care service and support program, located here in the U.S. and offering a host of resources throughout the Americas, including comprehensive training through Roland Academy. For more information on Roland DWX mills, visit www.rolanddga.com/dental.



• SafeLink Consulting

SafeLink is presenting programs both Friday and Saturday (see schedule) and also has a booth. The programs meet the Regulatory Standards requirements for CE NBC Credits. The topic this year will be on what OSHA is focusing on in inspections of dental laboratories, since there has been an increase in the number of inspections and also on the focus of the inspections. SafeLink will also be introducing a new product at the Cal-Lab meeting and at Lab Day: an updated Safety Trainer that provides health and safety training for dental technicians.

• Sirona

Visit Sirona Dental Inc.'s multiple booths at Lab Day Chicago and experience Sirona's new robotic scanner, the inEos® X5. The inEos X5 features a unique robot arm, innovative model positioning and the latest scanning technology for reportedly excellent precision, flexible handling, and a comprehensive spectrum of applications. The inEos X5 can be utilized as a standalone unit with inEos® SW and inLab® MC XL milling unit for complete in-house production.

• Talladium

Talladium is announcing a brand new product: Tilite. Tilite's proprietary formula is based on the same science that NASA used in the fabrication of the porcelain fused-to-metal heat shield for the Apollo Space Program. By manufacturing Tilite in several coefficients of expansion, it is able to absorb heat and expand at the same rate as the individual porcelain being used, thus eliminating stresses and forming an excellent bond. Talladium is now offering 95, 98 and 100mm discs for your CAD/CAM needs.



• Valplast

Valplast Education will be offering many courses ranging from basic Valplast® Flexible Partial technology to digital design and fabrication of a removable partial denture. Valplast is also excited to announce that it will be offering laboratories special pricing on digitally designed Valplast® Flexible Partials and also 3D printing services.

SATURDAY, FEBRUARY 22

10:00-10:45 am, LDC: 3Shape Presents: "High Esthetics Made Possible by 3Shape Technology", Matt Roberts, CDT

10:00-11:00 am, LDC: Heraeus Kulzer Presents: "New Digital Communication Workflow Between Dentists and Laboratories", Craig Nelson, CDT

10:00-11:00 am, LDC: BIOMET 3i Presents: "Over the Shoulder: Diem2—Retrofitting a Denture for an Immediate Load Full Arch Restoration", Wayne Szara, CDT

10:00-11:30 am, LDC: Zimmer Dental Presents, "New Advances in Lab Scanning Technology and CAD Design", Mark Massey, CDT

10:00 am-12:00 pm, CMM: "What Kind of Occlusion Are Articulators Providing?", Max Bosshart, CDT; Tonguc Sulun, PhD, DMD

10:15 am-12:15 pm, LDC: "Learn Together, Succeed Together", Enrico Steger, MDT (Zirkonzahn lecture)

11:00-11:45 am, LDC: 3Shape Presents: "A New Frontier in Fabrication of Implant Supported Restorations", Bob Cohen, CDT

11:00 am-12:00 pm, LDC: Safelink Consulting Presents: "What's OSHA Looking For—Infection Control, CR6, Compressed Gases?"

11:00 am-12:00 pm, LDC: BIOMET 3i Presents: "New Digital Technology for the Fabrication of Implant-Supported Restorations"

11:00 am-12:00 pm, LDC: Ivoclar Vivadent Presents, "All Ceramic, All Options: Zirconia—The Power of Light", Aldo Zilio

11:00 am-12:30 pm, LDC: GC America and Renfert Present: "Hand-Made, Results Realized," Thomas Sing, MDT

11:30 am-1:30 pm, LDC: Straumann USA Presents: "Are You Connected?"

12:00-12:30 pm, LDC: BIOMET 3i Open House: "The Latest Innovations in Digital Dentistry for the Laboratory"

12:00-12:45 pm, LDC: 3Shape Presents: "Joining Clinics and Labs in Complete Digital Workflows"

12:30-1:30 pm, LDC: Ivoclar Vivadent Presents: "All Ceramic, All Options: Man, Machine and Material", Nelson Rego, CDT

12:30-1:30 pm, LDC: BIOMET 3i Presents: "3M True Definition Intraoral Scanner and the BIOMET 3i Encode Workflow"

1:00-1:45 pm, LDC: 3Shape Presents: "Dentures and Revolvable Parts Made Easy by CAD/CAM"

1:00-1:45 pm, LDC: "Why Is Everyone Talking About exocad? Options from Your Current CAD/CAM System", John Orfandis

1:00-2:00 pm, LDC: DATRON Dynamics Presents: "Partnering with IMILLING for Your Implant Milling Solutions"

1:00-2:00 pm, LDC: Dental Wings Presents: "Chairside VPS Impression Scanning: A New Digital Workflow to Grow Your Business"

1:00-2:30 pm, LDC: Whip Mix Presents: "Tired of Working Harder Without Results? Learn to Recognize Process Waste In Your Lab", Bob Yenker

1:00-3:00 pm, LDC: DENTSPLY Implants Presents: "Comprehensive Implant Restorative Solutions for Edentulous Indications with a Focus on Biology and Engineering", David Avery, CDT



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Feb. 12 - Richmond, VA	March 11 - Frederick, MD
Feb. 13 - Charlotte, NC	March 13 - Asheville, NC
Feb. 19 - Washington, DC	March 18 - Charlottesville, VA
Feb. 20 - Raleigh, NC	March 19 - Atlanta, GA
Feb. 27 - Baltimore MD	March 27 - Cherry Hill, NJ
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Stratasys

Stratasys will have two new white papers available at Lab Day: "Perfecting Dental Treatments via 3D Printed Models and Removable Dies" which uses a case study to illustrate the ease of utilizing consistent and reproducible 3D printed verification protocols as a means of ensuring the success of the restorative treatment plan; and "Seamless Integration of the exocad Model Creator with the Stratasys Eden260V Printing System," which illustrates the seamless integration of the exocad Model Creator with the Objet® Eden260V™ 3D Printer from Stratasys®.

Whip Mix

Whip Mix will present three programs on Saturday, Feb. 22, all in Room 929 (see schedule for times). The first is an interactive discussion with Mark Jackson and Al Fillastre. The second presentation is hosted by Bob Yenker and will provide a realistic picture of how to prepare and maintain a focus on reducing Waste in the Lab. Finally, Brian Knopf explains "The Science Behind Today's Milling Materials."

Sun Dental Labs

Visit Sun Dental Labs' booth and learn about their new scanner rental program. Laboratories can rent a SunscanM 3D Model Scanner for \$199 a month, which includes a free one-day training session and a free night stay in Clearwater, Fla. Labs scan the model for any type of restoration and upload the file to Sun's customer portal. Sun Dental Labs then designs the case, fabricates the work and ships the case within five days in lab.

Zirkonzahn

At Zirkonzahn's booth, they will show their new Milling Unit Compact Line M1, which is designed to make CAD/CAM technology accessible to everyone. At the top of the line stands the 5 axis Milling Unit M1 Wet Heavy, which makes it possible to process a variety of materials. Zirkonzahn is also showing the Titanium-Spectral Colouring Anodizer and the Zirkonofen 700. Additionally, Enrico Steger, MDT and founder of Zirkonzahn, is speaking at both Lab Day and the Spectrum Dialogue Techno-Clinical Day.

SATURDAY, FEBRUARY 22

1:30-3:00 pm, LDC: GC America Presents: "Keeping It Real"

2:00-2:45 pm, LDC: "CAD/CAM Provisionals Made Beautiful with Composite", Jaro Urbanski

2:00-3:00 pm, LDC: Ivoclar Vivadent Presents: "All Ceramic, All Options: Exploring the Limits of IPS e.max"

2:45-5:15 pm, LDC: Amann Girrbach America Presents: "Hybrid Abutments/Hybrid Bars: Extended M-Plant Lecture with an Introduction of the Bar Module"

3:00-3:45 pm, LDC: 3Shape Presents: "Digital Temporaries"

3:00-3:45 pm, LDC: 3Shape Presents: "Digital Impressions in Computer-Guided Implantology"

3:00-3:45 pm, LDC: "White Esthetics Made Easy: anaxblend Light Cure Stains and Incisal", anaxdent North America booth

3:00-4:00 pm, LDC: PREAT Presents: "New and Improved Options for Precision Attachment Retained Removable Partial Dentures"

4:00-4:30 pm, LDC: "Implant Denture Fabrication Made Simple with anaxFORM", anaxdent North America booth

4:00-4:45 pm, LDC: 3Shape Presents: "What's New with DS 2014"

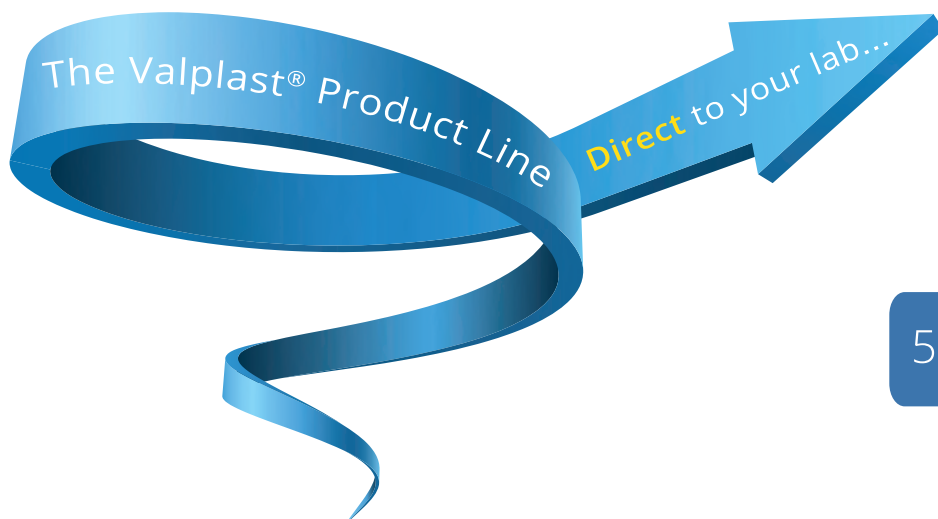
4:00-4:45 pm, LDC: 3Shape Presents: "A New Era of Orthodontics: Splints & Appliances with CAD/CAM"

4:30 pm, LDC: Exhibits close at Lab Day Chicago

5:30 pm, CMM: Exhibit Hall closes at Midwinter Meeting

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A sunny outlook

How Sun Dental Labs has used Suntech zirconia to provide their customers with a new world of all-ceramic options

by Ryan Hamm

Chuck Tagliarino, CDT, is the Technical Vice President of Operations at Sun Dental Labs, located in Clearwater, Fla. He oversees the technical information, equipment design and materials for Sun Dental Labs. Before his current tenure at Sun Dental, Tagliarino owned and operated a dental laboratory for 36 years, where he did full-service lab work, concentrating on implants. He decided to leave his lab after the cost of new equipment in a digital world became unsustainable for him, moving to Sun Dental and joining a team trying to push the lab market forward.

One of Sun Dental's major products they use in many of their cases is Suntech Layered Zirconia. The zirconia is used in fabrications made with their advanced scanning, design and milling center. Boasting a high resistance to corrosion, stability to hydrolysis, flexural strength and high biocompatibility, Suntech is a proven zirconia option.

DLP recently spoke with Tagliarino about why Sun Dental chose to enter the zirconia market, what benefits the techs at Sun Dental can offer labs and why Suntech ends up making patients—and dentists—very happy.

DLP: What were you hearing from the lab market that led Sun Dental to develop Suntech Layered Zirconia a few years ago?

CT: The main issue was the cost of gold. Everything was PFMs, and the cost of the gold had gotten so high that everyone wanted an alternative. Non-precious was a hard way to go. [Clients] wanted something esthetically pleasing and everything went to all-ceramic. Esthetically, it's worked out well, and the fits are good. The labs and the doctors wanted something that was cost-effective, and

also looked good, and all-ceramic was the answer. We started doing full zirconia crowns and copings three years ago. Like many, we struggled at first with zirconia with fit and color, dealing with the parameters on the computer and the design, but now we have it down.

There are a lot of zirconia products on the market. What distinguishes Suntech from other options? How does Sun Dental use Suntech to its advantage?

The fit. We have designers who are also technicians, and they know exactly how to design the understructure so we get the best possible esthetics and fit from our products. We're in contact with customers constantly to achieve the best esthetic end product—we know what they want and we work to give it to them. We're always developing procedures to get better. We've also changed as far as the equipment we use. We started with small mills and now use large mills—our sintering equipment is much more advanced; it's faster and more accurate. We're trying to get the cost-effective and good products that we can use to supply our customers. We've also seen advances in shading. When we first started, it was a solid block of one color, now there are blocks of varying colors, which is very esthetic in nature compared to a single color, which makes it more esthetic in full zirconia. We're always working with companies to come up with coloring systems so we can get matched with the shade that the doctors pick.

How does Sun Dental get those great final results for your clients?

We try to have the best technicians that can design our products so it fits well, and it functions well. The anatomy is where it should be and the occlusion is



Suntech zirconia from Sun Dental Labs offers technicians a variety of all-ceramic options that make both dentists and their patients happy.

where it should be, and the esthetics, which is always an ongoing experience for us, are where they need to be. We have the best technicians so we can achieve the best esthetics possible.

Have labs started to adopt to use the Suntech system?

It's a big part of our business and it keeps growing. Our CAD department is growing monthly—we're receiving fewer and fewer PFM cases and more and more zirconia and I think it's going to be that way for a long time. Patients love it, and doctors are happy with it. The only drawback with full zirconia is that it's harder to adjust, but that's why we concentrate on making sure the fit is perfect.

What's been the response from doctors and patients about restorations made with Suntech?

The patients love that there's no metal involved—there's no grain we have to deal with. It works very well with implants. There's no discoloration, there's no gray around the margins or discoloration in the tissue. And if the patients are happy, the doctors are happy!

What's been the response from the labs you do work for?

[For] most of the labs, we do copings for

them and then they do their own ceramic work. They're very happy with it. Now we're getting into scanning, so they can scan the model, send us the file and then we mill it—they send it in that day, we design the coping, mill it and they have a coping back in three days. It's changing the whole format of the old laboratory completely. We're also doing 3D printing—labs send us a file and we print the model and then produce the coping for that. I think eventually you'll see labs and doctors using in-house scanners more and more, to make the entire process digital.

So in the end, what's your goal with Suntech and with the services you provide at Sun Dental?

We're constantly focused on quality, function and fit, for our accounts and ultimately the patient. We're just doing our best every day. **lab**

SUN DENTAL LAB

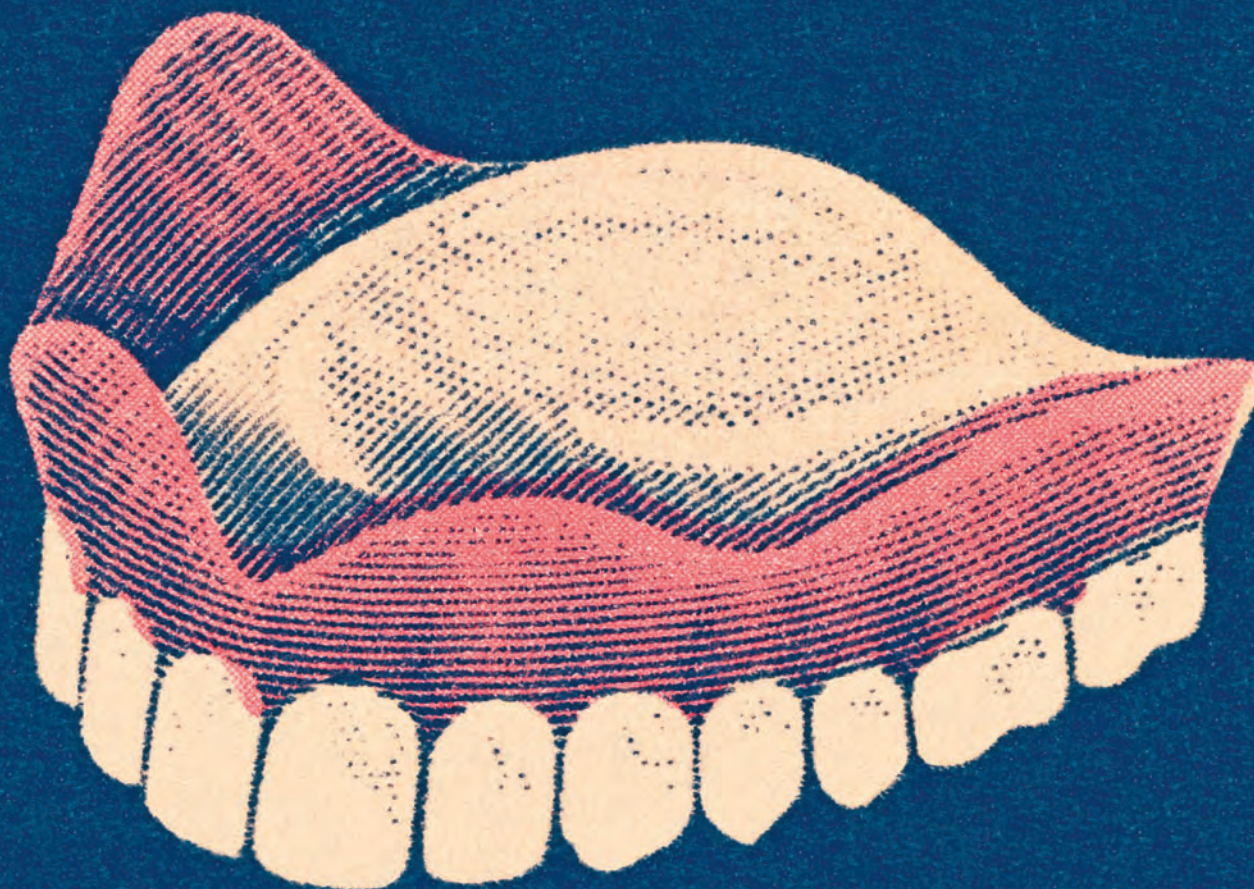
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CIRCLE: RS #19

SCAN:





Not Your Grandma's DENTURE TEETH

If you still think of denture teeth as stuck in the past of dental lab technology, these teeth will make you think again.

Compiled by the DLP Editorial Team

At first glance, “denture teeth” might seem like a, well, *old* topic. Both literally, because they’re usually associated with devices made for octogenarians, but also figuratively, because denture teeth often don’t get the press other products do.

And yet, as this round-up shows, huge advances have been made in denture teeth. Qualities like esthetics, strength and longevity have increased exponentially, and the teeth are more technologically advanced than ever.

So don’t think of denture teeth as “old”—these aren’t your grandma’s teeth. They’re the cutting edge of dental lab technology and more than worth a second look.

Ivoclar Vivadent

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Ivoclar Vivadent Removable offers a full range of denture teeth including Entry Level, Midline, Premium and Master Class. Additionally, they recently announced the addition of the full line of Candulor precision denture teeth to the Ivoclar Vivadent Removable line of products. Whether you are looking for a blend of value and esthetics or high performance, the Ivoclar Vivadent Removable tooth portfolio offers you more options, with quality at every level.

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Heraeus Kulzer Mondial and Mondial i

Mondial® and Mondial® i denture teeth are designed to set the standard for exceptionally natural form and function. Both are CAD/CAM-fabricated using bilateral digitalization to make 100 percent identical pairing and zero dimensional deviation possible. They feature exclusive NanoPearl® technology, incorporating unique micro fillers, nano particles and a micro-hybrid reinforced polymer bead technology for unmatched toughness and resilience. Independent studies document a 50 percent higher abrasion resistance for these advanced materials versus conventional PMMA acrylic materials. The Mondial® line is said to be particularly well suited for anterior esthetics, as its three-layering technique creates an impressively natural appearance. The “i” in the Mondial® i name stands for many different things, including “implant.” The line’s anatomical shape, larger molds and unsurpassed stress resistance make these denture teeth well suited for implant overdenture cases.

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DENTSPLY Prosthetics PORTRAIT IPN TEETH

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prosthetics.dentsply.com
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Jensen Dental

WILLI GELLER CREATION CREAPEARL

Willi Geller Creation Creapearl denture teeth were designed by Master Technicians Willi Geller and Dieter Schulz to provide technicians with the most highly esthetic and functional denture teeth available. Regardless of denture application, Creapearl denture teeth are sure to satisfy technician and patient alike with their esthetic appeal and functional comfort. Designed to accommodate any of the customization demands faced by the denture technician, Creapearl teeth allow for large amounts of reduction (4.5 mm on certain teeth) without effecting translucency.

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Lincoln Dental Supply

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Myerson

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Schütz

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Shofu

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CIRCLE RS #25

Vident

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THE DIGITAL HORIZON

5 Things Every Lab Needs to Know About Outsourcing



What you need to know before you start the dance with your new outsourcing partner.

by Daniel Allemeier, MBA

Whenever I meet a new technician or lab owner, one of the things I always tell him or her is that starting with a new milling partner is like a first dance; it can be a bit awkward. However, I also always say that it is important for both partners to get to know each other and what is expected so the dance can be as smooth as possible. Too often, we get so wrapped up in our immediate needs that we don't take the time to learn how best to work together. With that in mind, let's take a step back and go through a few things that every lab should know prior to working with a new outsourcing provider, no matter who they are.

1. What is their WHY? There is a great TED* talk by Simon Senik entitled "How Great Leaders Inspire Action" in which he talks about understanding a company's "WHY." During the 18-plus minutes of the talk, he mentions several times that "people don't buy what you do, they buy why you do it." In this quickly evolving marketplace, understanding the WHY of the companies you work with is important. Are they in line with WHY you do what you do? Part of my WHY is I believe in dentistry and its effect on a

person's health. What's your WHY and the WHY of the companies with whom you choose to partner?

2. What documents do you need to get started with a new outsourced provider? Take five minutes and get what you need to send the work out. Just like you, we often get Rx forms from other companies. Each company needs different things and finding that out up front speeds up the workflow and allows us to do the best job possible. Are there other documents or is there additional information needed to establish your account?

3. Review the case thoroughly before sending it off! I know, I know, this is one you all deal with all the time. No shade, no implant type or platform information, or the always exciting "Please Call!" When I worked for Space Maintainers Lab, I was always shocked at the models that were sent in for us to make an appliance. We would get an Rx to make a simple Upper Hawley Retainer and there would be no palate on the upper. Sound familiar? The same is true for your milling center: is the case

even doable? Is there enough room for a crown? Is the case articulated properly? Is there proper draw? Do we know the implant system? And on and on. A little work up front can pay off in the long run.

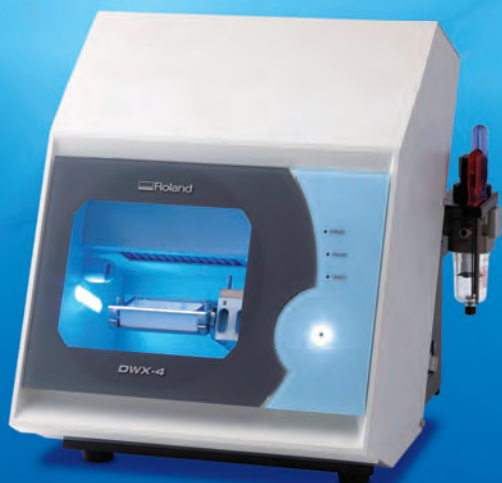
4. With all of the new milling machines, it is important to understand all the moving parts of the workflow. At Core3dcentres, we have an aerospace engineer who has a long history of industrial CAM software. In fact, he is currently running four different ones because we have a variety of machines and are milling a variety of materials, meaning a basic out of the box option will not produce the same outcome. Learn what different machines are capable of doing, and it will go a long way to ensuring great results.

5. Be sure to get your milling center's material files and implant library if they offer implant services. If your milling center does have these, you need to understand why. Whenever we work with a new laboratory, one of the first things we do is set up their CAD system with Core3dcentres Material Files and/or Implant Library. Every milling

center should have a specific validated manufacturing process, which guarantees the milled product will fit, and match the design. By utilizing the specific material library, a laboratory has the assurance from the milling center that the materials and milling workflow have been validated, resulting in the most precise, highest quality product every time.

It is great to see a dance evolve and the above are just a few of the many steps a lab should know when working with a milling partner. However, I think the biggest and most important thing to remember is that we are in a relationship business and, similar to your doctor-lab relationship, the lab-milling center is very important. It is great that we have engineers and staff with industrial manufacturing backgrounds—they are absolutely necessary; but we also have talented dental technicians willing to work hard to achieve what your lab requires. So reach out to your partners and make sure the relationship is continually growing and you are learning from each other. **lab**

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REAL TIME ROI

"Primopattern is basically magic ..."

One waxing technician explains his experience using Primopattern LC gel and paste for his modeling needs.

by Ryan Hamm



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CIRCLE RS NO. 33

SCAN:



Richard Wooddell

THE LAB

Precision Dental Arts is a dental laboratory located just outside of Cleveland, Ohio. Specializing in fixed prosthetics, the two-man lab has been in operation since 1997 and mostly works with all-ceramics and implants. Last year, about 37 percent of the cases handled at Precision involved implants in some way. Precision also works on many guided surgery cases, and actually co-owns a CBCT scanner with a local prosthodontist. Precision has around 20 core

clients it works with every month, along with a number of one-off cases it handles for clinicians in the area.

THE PRODUCT

Primopattern LC from primotec is a light-cured universal modeling resin. It comes in both a paste and a gel. The gel does not run, making it an economical solution for a variety of applications. Primopattern is designed to have a long working time (more than 20 minutes) but

a very short curing time (less than five minutes). The gel syringe comes with a handling tip that ensures desired precision. The paste is suitable for larger components (bars, pontics and more) while the gel is said to be ideal for delicate work that requires less layer thickness. Primopattern can be used with a grinder, and burns out cleanly. Finally, primopattern demonstrates no distortion or shrinkage issues more common to wax materials.



Applying primopattern LC gel

THE RESULTS

Richard Wooddell is the president of Precision Dental Arts, where he serves as the waxer/finisher/framer (his partner, Michael Deliberato, is the lab's ceramist). He's been using primopattern LC in the lab, and says it's revolutionized his ability to easily make accurate models. "Primopattern is basically magic to a waxer," Wooddell says. "I think it's one of the top products that I've seen in 20 years. [It's so great to] be able to take something that's light-cured and build a full-contour unit in half the time, that's stable enough that you can work on implant bridges, and know it'll fit. Shrinking is minimal."

A claim of "magic" is a heady one to use for any one product in a lab's workflow. But Wooddell lists a number of qualities of primopattern LC that, for him, make the magic label a very apt one. "Say it's a bridge, whether implant based or natural tooth based," he explains. "Instead of dipping my copings in wax, I start with primopattern right on a lubricated die. If you were going to wax it conventionally, you'd worry about shrinking, but when you're working with primopattern, you can begin right with primopattern and then finish the wax up with conventional wax, and you don't have to worry about shrinking because it's already been polymerized."

Primopattern has been available in a red shade for some time, but in mid-2013, a clear version was released. This opens the resin to a wider variety of cases, since it can both be used in the lab for modeling purposes, and for cases when clear would be preferred, such as a guided surgery situation. "We use both red and clear," Wooddell explains. "When I'm waxing, I use the red, because I can see it. I use the clear primarily for attaching sleeves, because you want the surgeon to be able to see."

Wooddell's preference for primopattern over wax is evident. But primopattern LC is hardly the only modeling resin out there—how does it stack up to other resin options? "Shrinkage is less and it burns out absolutely clean," he observes. "There's no ash. If you're looking at casting something, especially if it's implant-based, then you must have a very clean burn out material. We do a lot of full contour e.max. Those wax-ups are so clean when they come out. From those two factors, I think it's a superior product to anything to the market."

Primopattern also comes in both a gel and a paste, which are designed to help with smaller and larger cases, respectively. "Primarily, I use the gel but if you have a large pontic, and you want to form that section very quickly, you can take a finger-full of the primopattern paste, shape it in the rough form you want, cure it so all the shrinkage has taken place, carve it, and then attach it to the individual copings with the gel," Wooddell says. The paste makes it easy to save time even on a large case. And according to Wooddell, that saves time. "From a technician's standpoint, even though we have preformed pontics with electric waxers, this is still a time-saver," he observes. "With an electric waxer, it's drop by drop—it's not that way with primopattern. If I've got a big case to wax, I go straight to the primopattern." Wooddell is also happy with the feedback he's gotten from clients on the work he's produced using primopattern LC. "Most of us live by 'no news is good news,'" he laughs, "but when doctors are calling you and saying, 'I don't know what you're doing, but this fits like a glove,' you know you've got something. It's increased our accuracy, it's cut down our waxing time, and it's allowed us to wax frameworks that are very thin but very stable when needed."

"If you were to compare the cost of primopattern versus wax, there's a big difference in material cost, but when you look at the time savings or units per hour that can be produced, there's a huge advantage. If the average tech can produce two more cases an hour, do the math! That's a no-brainer." **lab**



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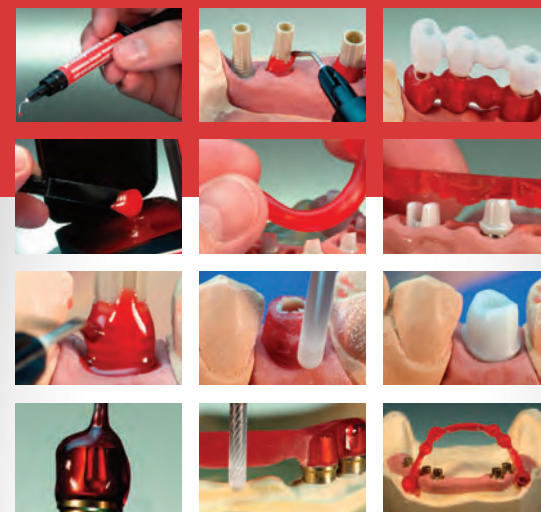
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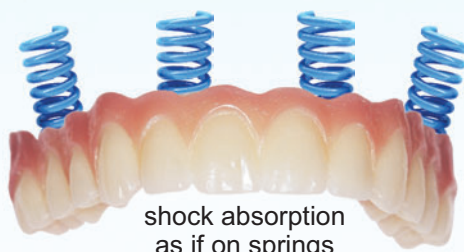
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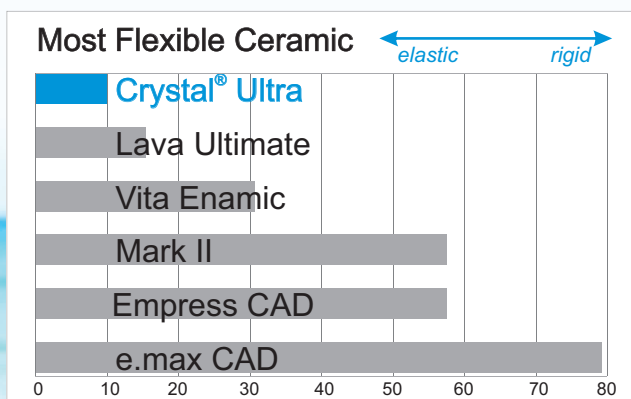
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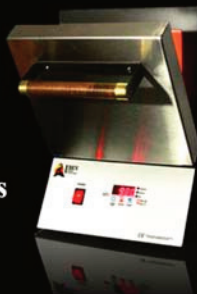
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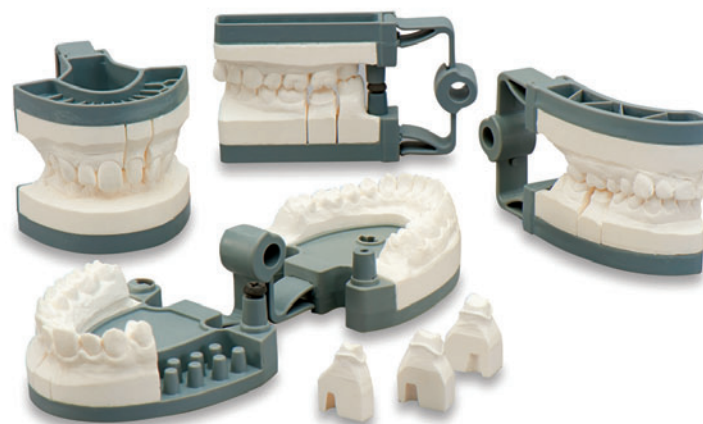
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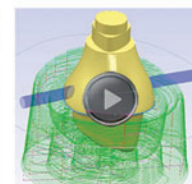
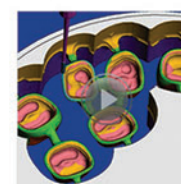
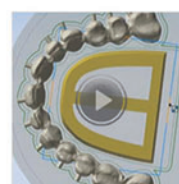
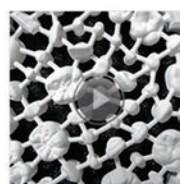


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Q+A
Emily Bradley
DIRECTOR OF EDUCATION,
CORE3DCENTRES

01. Core3dcentres bills itself as a “facilitator of digital relationships” for the dental industry. What do you think Core3dcentres’ role is in the dental lab marketplace?

I think Core3dcentres’ Global Mission Statement says it best—“We believe in excellence in dentistry and patient care. By personalizing digital technology, we provide a complete production solution, making the benefits available to everyone, resulting in a partnership for success.” Too often, we lose sight of who we ultimately benefit by striving to be the best we can: the patients. We are not, however, naive to the dramatic changes in the industry—laboratories need partners during this digital evolution, knowledgeable ones. Core3dcentres certainly has the best-in-class machines and we work with the top materials, but the biggest asset I see day in and day out is the people. That’s why we launched the aCADemy: We want to share our knowledge and experience.

02. What’s the biggest challenge in terms of digital relationships that you see in the lab industry?

Too often, we get wrapped up in the day-to-day minutia of work. We look to technology to solve our problems or to instantaneously grow our businesses. But ultimately, this is a relationship business and we need to pick up a phone or get out of our seat and interact with our customers and partners. So many dental technology companies are so focused on the product that they miss out on how it benefits the lab

and the patient. Education is a way in which we can learn how to maximize the benefits of technology and continue to improve upon the products and services we ultimately produce.

03. How do you think lab owners can increasingly learn to adapt to an always-changing market?

I don’t think going digital changes this; it is with whom you partner and if you remain active in your continuing education. Be willing to share your knowledge. Laboratory technicians are experts in techniques and materials, so continue to experiment and learn; don’t sit still, share your knowledge. We are all in this together.

04. How does the Core3daCADemy fit into Core3d’s mission?

Core3daCADemy is the mouthpiece for bridging and advancing dental technology. The aCADemy is one of the “How” portions of Core3dcentres’ mission, when we say “by personalizing digital technology ...” and “making the benefits available to everyone, ...” This is where Core3daCADemy lives within our company.

05. What will lab technicians gain from attending a Core3daCADemy course?

They will learn how to be more efficient with their digital designs, by receiving hands-on instruction focused on ways to increase production while learning how to design more esthetic and better functioning restorations. Which ultimately, creates a better result for patients.

06. The aCADemy curriculum focuses a lot on CAD work. What do you think is the biggest thing labs need to know when it comes to CAD?

It is my experience that people can put too much faith in their computers. The fact is a computer’s intelligence is artificial. This technology does not replace the years of experience that a dental technician has gained. CAD is simply a tool in the hand of an artist and it only knows how to do what it’s told. The aCADemy curriculum provides the training and experience needed to maximize the benefits of this tool, resulting in an improved final outcome for the patient.

07. What kind of lab do you think would be helped by the aCADemy?

I believe there is a spot for every lab, from the ones that have already gone digital to those just on the cusp of starting their digital journey. We have students that have been digital for years

and are able to pick up even the smallest trick or suggestion which improves their lab’s work flow. For those just starting it can seem like a scary, daunting move, and the aCADemy can be the place where they can get a sense of the benefits and opportunities associated with going digital. We know what works and what doesn’t and have made the mistakes, which our lab partners can learn from.

08. Once a lab goes through the steps of Core3daCADemy, what’s next? How do you help them put what they’ve learned into practice?

Core3daCADemy has a number of tools to help its graduates. We are in the process of offering bi-monthly Core3daCADemy courses at the Center for Advanced Professional Education (home of LVI) where we are building a curriculum for technicians at every stage of the digital evolution. We’ve also made the aCADemy available to those who are not able to make the trip to Vegas or larger labs that want a customized, in-lab program. Also, we are starting our monthly webinar series in which we will be delivering the most current, up-to-date information by providing information and education from some of our partners who are leading the charge within the dental industry.

09. Where do you see the digital revolution taking the lab world into 2014?

Certainly I see a push for a more comprehensive, esthetic implants solution such as custom abutments. There will continue to be advances in materials with more strength, esthetics and biocompatibility. Intraoral scanning will continue to grow and will dramatically change the chairside-to-lab work flow. I also believe that communication tools are growing, and with this increase, patient privacy becomes more and more paramount.

10. How is Core3dcentres—via its aCADemy and other resources—looking to meet those changes head on?

By staying on the leading edge through partnerships. As a company, we have the ability to try out and test technology before it actually hits the mainstream market. We feel it our responsibility to deliver that information to our customers and partners in order to help them make the best decisions, resulting in a partnership for success.

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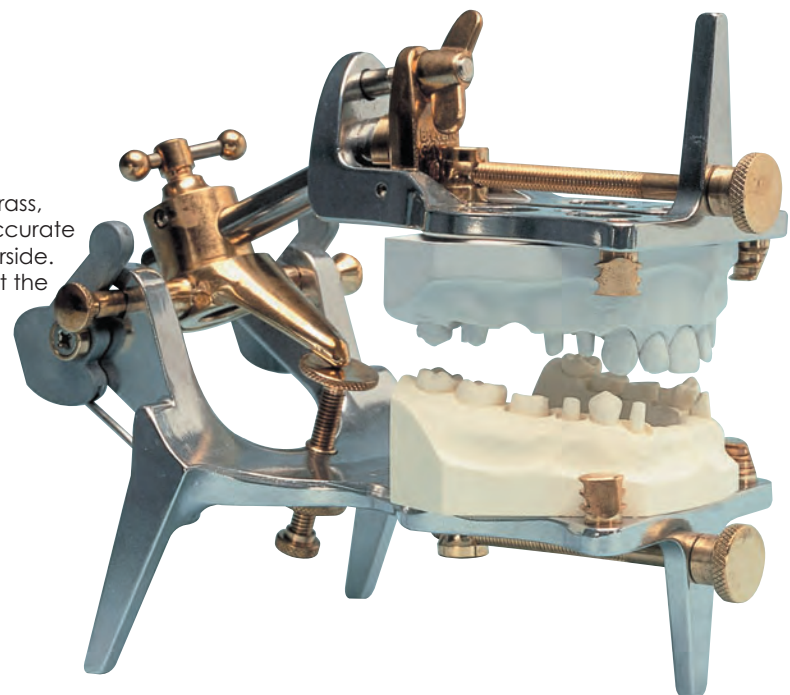
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