



2016 Volume 3

The quarterly newsletter of D&S Dental Laboratory, Inc.

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INCISAL EDGE

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PLEASE NOTE
D&S Dental Laboratory
Will be Closed the
Following Dates in 2016

September 5
Labor Day

November 24-25
Thanksgiving

December 26
Christmas

Successfully Working with Imagine™ *The High Translucency Zirconia*

Imagine™ crowns and bridges continue to be one of our most popular and fastest-growing restorations offered at D&S Dental Laboratory. We've seen steady growth in the product since introducing it last summer.

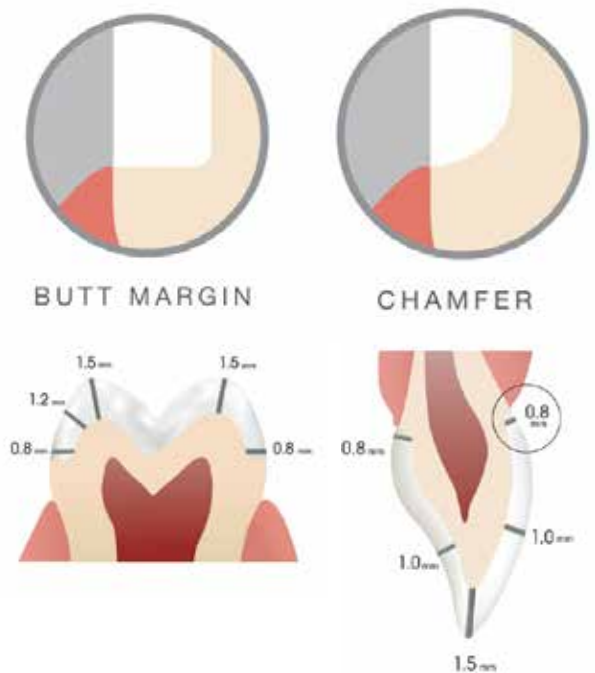
In this article, we'll share some things we've learned while working with this amazing material during the past year.

The main thing a dentist should remember with an Imagine restoration is that you shouldn't prepare the tooth the same as you would a porcelain fused to metal or full-strength solid zirconia restoration.

Be sure to use a chamfer or shoulder tooth preparation. Square edges and parallel walls are not advisable with ceramic. You want rounded edges and smooth, even finish lines.

As for prosthetic design, our lab needs to produce flawless margins, avoiding very thin, knife-edge crown margins. That's because studies have clearly shown that the weakest point of a single-tooth restoration is at the margin, which is where fractures can occur.

There are a number of reasons why there might be pressure placed on the cervical margin, including high cementation force or excess cement inside the crown.



Images courtesy of Jensen Dental

"We are finding the new translucent zirconias require more tooth reduction, much more gentle handling during chairside adjustment and possibly use in less stressful situations – especially when molar restorations are considered."

– July 2016 Clinicians Report
by Gordon J Christensen

continued on page 2



PRODUCT SPOTLIGHT

ATLANTIS Abutments and Insertion Guide



When you order ATLANTIS™ patient-specific abutments from D&S Dental Laboratory for your next implant case, we'll provide the ATLANTIS Abutment Insertion Guide at no charge (\$25 value).

The ATLANTIS Abutment Insertion Guide is a precisely-crafted, 3D-printed device that holds an ATLANTIS Abutment securely at the correct angle and orientation during installation for single- and multiple-unit, cement-retained solutions. Locating the screw access hole and inserting the abutment screw is simple, because the guide is designed with an oriented access channel for each abutment. Simply place the ATLANTIS Abutment(s) in the insertion guide and put the insertion guide in position. While holding down the guide, torque in the abutment(s).

Going for Gold

All titanium abutments, regardless of brand, can be provided in gold-shaded titanium at no charge for improved esthetics. Just ask for a gold-hue abutment on your next case.



Continued from page 1

With PFMs, you typically fill the restoration with cement as much as possible and have the patient bite down forcing it into place. This technique was used in the past because frankly cements weren't that good.

Cements are much better now. In fact, whereas PFM strength came from the metal, with ceramics, the strength really comes from the bonding of the tooth and crown structures.

Since today's crowns are designed with a virtual cement space, you might want to use a try-in paste when fitting the restoration, otherwise you're placing undue pressure outward on the margin, which could cause fracturing.

The July 2016 *Clinicians Report* also notes that translucent zirconia can fracture at seating if substantial chairside adjustment has been performed. Here are some tips for adjusting Imagine chairside.

- Fine diamond tools are recommended using a water-cooled, high-speed hand piece.
- Use light pressure and plenty of water to avoid overheating and micro-cracking of the sintered body.
- Polish with diamond impregnated rubber polishers; maintain minimum wall thickness and connector cross sections.

Save the Date - Upcoming CE Seminar

October 14, 2016

The Nuts & Bolts of 21st Century Dentures

8:00 a.m. – 3:30 p.m. (CE credits: 6 hours)

Comfort Inn & Suites DeForest

Just five minutes north of Madison at exit 126 off I-90/94

Visit dnsdental.com/events for more information.



TECHNICIAN'S TIP OF THE MONTH

If you are concerned about the design of a particular crown, bridge or implant case, let us know and we can email you screen shots of the design prior to milling the final restoration.



With 99 percent of fixed restorations at D&S Dental Laboratory, Inc. now designed on the computer, this is a quick and convenient benefit of today's digital workflow.

Learn on the Links at Trappers Turn Golf Club *Computer Planning Implants on an Everyday Basis*

Computer guided surgery is finally having a dramatic effect on the field of implant dentistry. Most dentists have viewed this technology as a costly, complex approach suitable only for complicated cases. However, similar to Moore's law in computing, computer guided and computer assisted surgery have grown more sophisticated, more versatile, easier to use and significantly lower in cost since the original CT-guided template was introduced in 1997. This lecture discusses the effective and profitable application of the CoDiagnostiX digital workflow in the day-to-day operation of a restorative dental office.

Learning Objectives:

- Briefly review the history of the CT-based computer designed surgical guide.
- Discover the dramatic decline in the cost of this treatment from 1997 to 2016.
- Learn the difference between computer-guided and computer-assisted techniques.
- Understand the CoDiagnostiX workflow.
- Introduction to the Dental Wings *Synergy* workflow.
- View a live demonstration of surgical planning.

**Register by
August 15**

This event is co-sponsored by Straumann. Special case study sponsored by 3M. Lunch sponsored by Instrumentarium.

Real World Endo® Presents

Restorative Endodontics, a Modern Standard of Care for Long-Term Success

Full-Day Presentation (Lecture and Hands-On Session)

Restorative Endodontics (RE) is based on minimally invasive root canal preparations and bioceramic bonded obturation that enhance the long-term biomechanical success of the endodontically treated tooth. It (RE) is based on a biologic approach that emphasizes debridement and disinfection rather than shaping for obturation.

This Real World Endo presentation is highly practical and will describe (in detail) numerous facets of clinical endodontics, utilizing a "Case-Based Learning Approach." A premolar and molar clinical case will be discussed in detail that will demonstrate both the basic and advanced instrumentation and Obturation Technique, as well some technique variations to handle more challenging cases. The principal scientific concepts for successful endodontics will be presented as well as new technology and techniques that emphasize responsible shaping and HA (hydroxyapatite) bonding inside the root canal.

A new instrumentation and obturation system (ESX®) will be introduced that incorporates the above concepts. All participants will have the opportunity to validate these concepts during the hands-on session.

Co-sponsored by Brasseler USA and Morita.

Seminar/Golf Outing Friday, August 26, 2016

SCHEDULE

8:00-8:30 a.m. *Registration and Breakfast*

8:30-11:30 a.m. *Presentation*

11:30 a.m.-12:15 p.m. *Lunch*

12:30 p.m. *Shotgun Start Golf*

LOCATION

Trappers Turn Golf Club
2955 Wisconsin Dells Parkway
Wisconsin Dells, WI 53965
800-221-TURN | www.trappersturn.com

TUITION

Complimentary

CE CREDITS

3 hours

REGISTRATION

www.dnsdental.com/golf

Full-Day Seminar September 30, 2016

SCHEDULE

8:30-9:00 a.m. *Registration and Breakfast*

9:00 a.m. -12:00 p.m. *Morning Session*

12:00-12:45 p.m. *Lunch*

12:45-3:45 p.m. *Afternoon Session*

LOCATION

SentryWorld
601 N Michigan Avenue
Stevens Point, WI 54481

TUITION

\$100 (Waived for D&S clients who send in registration with their next case)

CE CREDITS

6 hours

REGISTRATION

www.dnsdental.com/endodontics



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D&S FOR NORTH AMERICA
Your Full Service
Certified Dental Laboratory

Giving Back: Eighth Annual Mission of Mercy

The eighth annual Wisconsin Mission of Mercy was held in Eau Claire on June 17-18. Dentists, hygienists, assistants, lab technicians and general volunteers from around the country generously donated their time to make the event hosted by the Wisconsin Dental Association (WDA) Foundation another huge success.

The goal of Mission of Mercy events held around the country is to bring dental care to local residents who otherwise would be unable to receive treatment. This year's event provided almost \$1 million in care to more than 1,200 patient visits.

D&S Dental Laboratory was once again privileged to serve as the lead lab for the fifth year in a row.

One trailer full of equipment and supplies including portable flames, compressors, air lines, polishers, boil out tanks, pressure pots, lathes and even lights for the tables were hauled up from our lab in Wauunakee and set up the day prior to the event. Dentsply Prosthetics and Zahn Dental were strong supporters once again by donating a large number of denture teeth and materials, and D&S provided any additional materials needed.

"This event means so much to our entire team. It's a humbling experience – one that reminds us why we do what we do every day," says D&S Removables Manager Dennis McPherson. "We want to personally thank all of the lab technicians and volunteers who gave their time and talents to this worthwhile cause."

