

Recent Case photos



E.max crowns



PFM Bridge & Crowns



E.max full maxillary arch



Diagnostic Wax-up

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Internship program now offered at Renstrom

Something new to the lab this summer was the Renstrom Dental Studio summer intern program. Although Renstrom has had dental students work at the lab in the past, this program is different in that it covers current techniques in dental technology and all aspects of the crown and bridge process. The objective of the internship is to educate aspiring dental students on laboratory procedures and the fundamentals of achieving restorative case success.

Dave, who interned with us this summer, is currently studying biology at Drake University and hopes to be accepted in to the dental program at the University of

Minnesota. Dave was eager to learn more about the operations of a dental lab and the role of a dental technician. During the four weeks while at the lab, Dr. Benson put together a structured outline entailing specific tasks Dave was to accomplish while in each department. He was actually able to fabricate a restoration by completing all of the required steps throughout the lab. After the four weeks, Dave received a certification of completion and will begin dental school with a better understanding of modern dental technology.

If you have a relative or know of someone who is pursuing a

career in dentistry or dental laboratory technology that would be interested in an internship, please let us know or have him or her contact Randy. We are excited to be having our second intern start with us this fall, being she was able to work it in to her school schedule. The internship is part time, non-paid, and overall is a great learning experience.

Great crowd at the Backyard BBQ

Thank you to everyone who came out to the Renstrom BBQ this summer. We enjoyed talking with many doctors and staff members. It was a great opportunity for the technicians to meet many of you and show you how things are done at the lab. For those of you who were unable to make it, you are always welcome to stop by the lab anytime.



Julie (left) & Michele (right) with Judy (assistant) at the BBQ

Renstrom Reminders

- Please be sure to remind patients that there is a 24 hour waiting period from the time they are prepped and the time they come in for a custom shade due to possible tooth dehydration.
- Dr. Benson is at the lab Mondays and Wednesdays and the technicians are always available for any technical support or case questions.
- We all know the holiday season can get pretty busy so please take this in to consideration when scheduling rush cases.
- Be sure to like us on facebook so that you're up to date with everything happening at Renstrom.
- The technicians would love to see patient "after" photos if you have them. Please send to randi@renstrom.com

Esthetic Alliance Program: You're Invited....



Nobel Procera Scanner

"We hope after this series, attendees will feel confident about making implant restorations routine procedures in their dental practice."

Dental implants are increasingly becoming the standard of care for patients missing a single tooth and even those that are fully edentulous. Because of this, more clinicians are making dental implant restorations an integral part of their practice. As we see an increase in implant cases at the lab, our goal is to utilize the most advanced technology so that we can provide our doctors with quality products and a complete range of solutions. We work with all dental implant manufacturers at the lab and recently acquired the new Nobel Procera Scanner from Nobel Biocare. The optical scanner features a patented technology called conoscopic holography. This technology enables us to

capture the shape of more complex objects, and when scanned, light beams are reflected across the same linear pathway for precision scanning. The software for this system allows the technician to use an array of design capabilities, specifically for improved accuracy.

In a continuous effort to educate clinicians on topics regarding implant dentistry, Renstrom in conjunction with Nobel Biocare, has developed the Esthetic Alliance Program. This program is a course divided in to four sessions and focuses on restoring the following: missing posterior single tooth, missing anterior single tooth, partially eden-

tulous, and the fully edentulous arch. The lecture combined with hands on training is intended for general dentists striving to become more proficient in restoring dental implants. Participants will treatment plan their own case that they will actually restore and discuss amongst the group. We hope after this series, attendees will feel confident about making implant restorations routine procedures in their dental practice. Dr. Downie will be leading the group throughout the four sessions, while accompanied by lab technicians and Noble Biocare.



Module I: Treatment planning and restoring the single posterior dental implant

Date: Tuesday October 4, 2011

Presenter: Dr. Mike Downie

Dr. Downie attended Augustana College in Sioux Falls, SD and graduated with a D.D.S. from the University of Minnesota School of Dentistry in 1996. Dr. Downie received his M.D. from the Texas Tech University Health Sciences Center in 1999. He then completed a one year internship in general surgery at Baylor University Medical Center and subsequently finished his 6 year oral and maxillofacial surgery residency at the Baylor College of Dentistry/Texas A & M University System in 2002. He is a board certified Diplomate of the American Board of Oral and Maxillofacial Surgery (ABOMS) and is a member of the American Association of Oral and Maxillofacial Surgeons (AAOMS), American Dental Association (ADA), Minnesota Dental Association (MDA), American Medical Association (AMA)

For detailed information on the above course and future sessions of this program, please contact us @ 651-407-0491 or jenna@renstrom.com. Limited number of attendees.

Renstrom Dental Studio Fun Facts

- The average number of years of experience per Renstrom employee: 19. Total years of experience: 496 years
- Renstrom pick-up & delivery drivers use a combined average of about 2500 gallons or 10 tons of gas per year.
- When Renstrom was started in 1966 the price of gold was \$34.95. Today it is over \$1800 an ounce!
- The word ceramic comes from a greek word 'Keramicos' which means earthen.
- The second molar is the most commonly crown made at Renstrom and the most common tooth shade is A2.
- Renstrom goes through 2,529.6oz (158.1 lbs) of chocolate per year, 652.8oz (40.83 lbs) of that is consumed by its own employees.



Restoration Selection Guide

With the many material options currently available, determining the right one to use for each crown preparation can be a challenging task. Quite often at the lab we are asked which of the below materials is best. Although the manufacturers of these materials claim their products to be superior for one reason or the other, it truly comes down to the doctor/patient expectations and the circumstances of each restorative plan. The technicians at the lab are helpful in suggesting material options after evaluating a case and all additional information included with it. The more information we have to fabricate the restorations, the more predictable the results will be for the doctor and patient.

The below chart displays a comparison of the primary materials used at Renstrom. All of our restorations are crafted in-house other than the zirconia substructures, which are milled here in the U.S. We use the finest veneering ceramics available from both Germany and Japan. If you would like more information on any of the materials listed on this chart, please give us a call.

Material	Composition	Flexural Strength	Indications	Prep Design	Cementation	Clinical Success	Prep Shade Needed	Comments
Gold	High Noble Alloy: Par 7 Au 58.0% Ag 27.0% Pd 3.5% Noble Alloy: No.8 Ag 54.2% Au 27.6% Pd 8.0%	>1300 MPa	Single Posterior crowns	.5-1.5mm axial & occlusal reduction, .5mm chamfer margin	Conventional cementation	50 + years	No	The standard posterior crown for long-term durability. Used when esthetics are not a primary concern. Cost will rise as gold prices continue to increase.
PFM	High Noble Alloy: IPS d.sign91 Au 60.0% Pd 30.6% In 8.4% Noble Alloy: Porcelain 76 Pd 76.0% Au 1.8% Layered with feldspar veneering ceramic	≥ 1200 MPa Veenering ceramic (120 MPa)	Single anterior and posterior crowns, Long span bridges, Implant crowns	1.5 mm axial & occlusal reduction, Standard chamfer margin	Conventional cementation	40 + years	No	Long-term clinical success with proven strength and biocompatibility. Cost will rise as gold prices increase.
Layered Zirconia	Yttria-stabilized zirconium dioxide Layered with feldspar veneering ceramic	≥900MPa Veenering ceramic (120 MPa)	Single anterior/posterior crowns, 3-6 unit bridges up to 48mm, Implant crowns	1.5-2mm occlusal/incisal reduction, 1-1.5mm axial reduction, 1mm chamfer margin	Conventional cementation	11 years	Yes	Metal free option with sufficient strength as long as zirconia substructure has .3-.5mm thickness. Higher cost due to layered technique.
Monolithic Zirconia	Yttria-stabilized zirconium dioxide	≥1250MPa	Single posterior crowns, Implant crowns, 3 unit bridges	.5- 1.0mm axial and occlusal reduction	Conventional cementation	2 years	No	Cost effective alternative to full cast restorations. Mainly prescribed for bruxer patients. Ongoing research and clinical studies.
Layered e.max	Lithium Disilicate, Layered with nano-fluorapatite ceramic	400MPa Layering Ceramic (90 MPa)	Single anterior crowns, Veneers, Anterior 3-unit bridges	1.5mm facial and incisal reduction, Modified chamfer margin	Bond/Resin cement, Self adhesive resin cement	6 years	Yes	Metal free option used when esthetics are a primary concern. Higher cost due to layered technique.
Monolithic e.max	Lithium Disilicate	400MPa	Single posterior crowns, Inlays/ Onlays	1.5-2mm occlusal reduction, 1.5mm axial reduction, Exaggerated chamfer margin	Adhesive resin cement, Self-adhesive resin cement	4 years	Yes	Cost effective metal-free alternative offering both strength and esthetics.



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***Our goal is to get you patient
referrals with every case we do!***

www.renstrom.com

Renstrom Events

Hazardous Waste Communication

Tuesday, September 27th

Presenters: John Maguire &

Leanne M. Mathieu Kramer LDA, CDA, CDPMA

Location: Renstrom Dental Studio

Esthetic Alliance Program

Module I: Treatment planning and restoring the single posterior dental implant

Tuesday, October 4th

Presenter: Mike Downie

Location: Renstrom Dental Studio

Steps to Success in Your Dental Practice

Friday, October 14th : Workshop

Presenters : Leanne M. Kramer, Gayle Christensen, Jeff Benson,
Tammy Hines, Zak Spaniol

Location: Bloomington, MN

Digital Impressions featuring the Cadent I Tero System

Tuesday, November 2nd

Presenters: Cadent Itero Trainers

Location: Renstrom Dental Studio

Upcoming Events



Minnesota Academy of General Dentistry & Cosmetic Dentistry Events

MAGD: Master/fellow Track Continuum
Laser Dentistry & Dyspelling Dysplasia
September 30— October 1, 2011
Presenters: Kevin D. Huff DDS, MAGD &
William Chen, DDS, MAGD
Location: Bloomington, MN

MACD: "Esthetic Restorative Concepts"
Friday, October 21st
Presenter: Fred Arnold, DDS
Location: TBA

MACD: "Laser Use in Periodontal Treatment"
Friday, November 11th
Presenter: Greg Koch, DDS
Location: TBA