

Postgraduate Program in Contemporary Esthetic Dentistry: Level I
Continuing Dental Education, School of Dentistry
University of Minnesota

Goal: to provide a University-based postgraduate program in esthetic dentistry which will prepare practicing dentists to select and use contemporary materials and techniques based on scientific evidence. Dentists will be exposed to a diversity of philosophies, materials and laboratory experiences which will give them the knowledge and skills to incorporate the latest materials and techniques into practice.

Credits: 100 hours of postgraduate instruction for a total of 5 credits. (60 hours of didactic= 4 credits; 40 hours of laboratory= 1.5 credits.)

WEEKEND THREE: Direct Esthetic Restorations

Objectives: The graduate will be able to:

1. identify appropriate uses of lasers in dentistry.
2. utilize laser technology with simulated soft tissue applications.
3. identify when and how to use fluid control materials during direct and indirect restorative procedures.
4. create adhesive preparations for resin-based posterior restorations.
5. select the best options in flowable composites for posterior restorations.
6. create tight contact areas using matrices.
7. inject, polymerize, shape and finish posterior composite materials on models.
8. determine when to use fiber-reinforced composite restorations.
9. prepare and place a fiber reinforced composite bridge on a model.
10. determine when to use indirect one-appointment inlays/onlays.
11. improve skills with preparation design for maxillary and mandibular porcelain veneers.
12. place fiber posts in root canals of extracted teeth.

CONTINUING DENTAL EDUCATION
School of Dentistry
University of Minnesota

*Postgraduate Program in Esthetic Dentistry: Level I
Weekend Three*

*Friday-Sunday
February 11-13, 2005*

THEME: Direct Esthetic Restorations

PROGRAM

Friday, February 11, 2005

5-125 Moos HS Tower
Lecture Room

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|-------|---|--------------------------------|
| 11:55 | Welcome Remarks | <i>Dr. Patrick Lloyd, Dean</i> |
| 12:00 | Lasers in Dentistry | <i>Dr. John Graeber</i> |
| | How to contour gingival tissue for maximum esthetics | |
| | Use of lasers for sulcular preparations | |
| | Use of lasers in hard tissue esthetics | |
| 2:30 | Refreshment break | |
| 2:45 | Lasers in Dentistry: Demonstration | <i>Dr. John Graeber</i> |
| | Demonstration: Use of diode and erbium lasers on pig jaws showing: | |
| | 1) common gingival procedures | |
| | 2) tissue control for restorations | |
| | 3) hard tissue procedures with lasers | |
| 4:30 | <i>Questions & answers</i> | <i>Dr. Graeber</i> |
| 5:00 | Dinner (included) | |
| 6:00 | Tissue Management | <i>Dr. John Bailey</i> |
| | Fluid control considerations in restorative dentistry | |
| | Types of fluids and their effect on adhesive and impression making procedures | |

- 7:15 Refreshment break
- How to select the appropriate chemicals *Dr. Bailey*
- 8:30 *Questions & Answers* *Dr. Bailey*
- 9:00 Adjourn

Saturday, February 12, 2005

5-125 Moos HS Tower
Lecture Room

- 8:00 **Posterior Composites** *Dr. Paul Belvedere*
- o Creating an adhesive preparation
 - o Creating the contact area
 - o Cleaning and etching
 - o Using a contact former
 - o Applying the primer/adhesive
- 10:00 Refreshment break
- 10:15 **Posterior Composites** (continued) *Dr. Belvedere*
- o Applying a flowable composite
 - o Injecting posterior composite
 - o Polymerization
 - o Occlusal shaping and finishing
- 11:45 *Questions and Answers* *Dr. Belvedere*
- 12:00 Luncheon (included)
- 1:00 **Hands-On Workshop:** use of matrices; placing, polymerizing shaping and finishing posterior composite restorations on a typodont *Dr. Belvedere*
- 5:00 Adjourn
- 5:30 Reception—Radisson Hotel Metrodome

Sunday, February 13, 2005

5-125 Moos HS Tower
Lecture Room

8:00 **Fiber-Reinforced Composites**

Dr. Paul Belvedere

- o Complicated Esthetic Challenges
- o Direct Fiber-reinforced composite restorations and bridges
 - indications
 - preparation
 - steps in treatment

Hands-On Workshop: placement of a fiber-reinforced composite bridge on a typodont

Dr. Belvedere

10:00 Refreshment break

10:15 **Hands-On Workshop:** anterior and posterior tissue management with matrices

Dr. Belvedere

11:00 **Provisionalization**

11:45 *Questions and Answers*

Dr. Belvedere

12:00 Luncheon (included)

1:00 **In-Office Indirect Restorations**

Dr. Mark Malterud

Lecture: Indirect one-appointment inlays/onlays

- indications
- preparation
- steps in treatment

Demonstration: Indirect one-appointment inlays/onlays

2:45 Refreshment break

4-160 Moos Tower
Laboratory

3:15 **Hands-On Workshop:** demonstration and practice with porcelain veneers. Participants will complete the following preparations on typodonts:

Dr. Paul Olin

- anterior veneer preparation with wrap
- anterior veneer preparation without wrap
- posterior veneer preparation

Hands-on Workshop: demonstration and practice with placing fiber posts in root canals of extracted teeth.

5:00 Adjourn

GUEST SPEAKERS

Paul S. Belvedere, D.D.S., Adjunct Professor, School of Dentistry, University of Minnesota. Dr. Belvedere is an internationally renowned teacher, author, inventor and innovator in composite dentistry. He maintains a full-time general and cosmetic dental practice in Edina, Minnesota. He has been a featured speaker for the ADA, ASDA, AACD, AGD as well as for several other dental schools worldwide. Dr. Belvedere has written a chapter in Dental Clinics of North America and is a consultant to several dental manufacturers.

Mark I. Malterud, D.D.S., has a solo practice in St. Paul, Minnesota which focuses on comprehensive minimal invasive esthetic bonded dentistry. Dr. Malterud has lectured nationally and internationally on minimal invasive dentistry and has provided in-office training for offices interested in single appointment indirect bonded restorative techniques. He is an active member of the American Dental Association, the American Academy of Cosmetic Dentistry and the Academy of General Dentistry.

John Graeber, D.D.S., Certified Laser Educator; full-time general and cosmetic practitioner in East Hanover, New Jersey who is recognized nationally for his expertise in lasers in dentistry. Dr. Graeber has written several articles on the subject of high-tech dentistry and has provided lecture and hands-on laser courses for many dental schools and for the major dental meetings around the country.

John Bailey, D.D.S., Diplomate, American Board of Prosthodontics. He was promoted to the level of Associate Professor with Tenure at The Ohio State University College of Dentistry teaching in the pre-doctoral and graduate prosthodontics programs. Dr. Bailey is an Adjunct Professor at the University of Alabama-Birmingham, the University of California, Los Angeles, a visiting professor at the Universidad Francisco Marroquin in Guatemala and adjunct faculty at the Arizona School of Dentistry and Oral Health. Dr. Bailey has presented over 150 national and international lectures on esthetic and prosthodontics dentistry. He has a prosthodontics practice in Peoria, Arizona limited to prosthodontics and esthetic dentistry. His diversified background allows him to draw on a wide range of experiences to discuss the evolution of products and techniques into the 21st century.

Paul Olin, D.D.S., M.S., Associate Dean, Clinical Systems; Director, Dental Implant Program; Associate Professor, Division of Prosthodontics, Department of Restorative Sciences, University of Minnesota,

School of Dentistry. In addition to his administrative and teaching responsibilities, Dr. Olin practices part—time in the faculty practice at the School of Dentistry. He has extensive clinical and teaching experience with porcelain veneers and with other areas of esthetic dentistry. *Dr. Olin is the Director of the Postgraduate Programs in Esthetic Dentistry: Levels -III at the University of Minnesota School of Dentistry.*

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