Esthetic Update in
ADHESIVE DENTISTRY

Ostrow School of Dentistry of USC
Friday - Saturday
Module I: May 2 - 3, 2014
Module II: June 20 - 21, 2014
9:00am - 5:00pm
Learning Objectives:
- To understand the Digital Design: how to create anatomical and functional restorations
- To know the digital impression: how it affects marginal fit and how to obtain accuracy?
- To introduce different CAD/CAM Technologies
- To know adhesive CAD/CAM cavity preparation design
- To compare conventional preparations vs CAD/CAM preparations
- To understand how layering affects chroma, value, and the final shade
- To understand finishing and polishing techniques that mimic the natural dentition

Esthetic CAD/CAM Restorations

CAD/CAM designed and fabricated restorations have become essential tools in restorative dentistry, ranging from single tooth to full-mouth rehabilitation. This module is divided into two parts and will provide participants with the knowledge of basic and advanced CAD/CAM applications.

Introduction to CAD/CAM Technology and Material Selection

The participants will be introduced to the fundamentals of CAD/CAM technology, including cavity preparation and restoration designs as well as digital impression taking with different CAD/CAM systems. Furthermore, selection of appropriate CAD/CAM materials will be thoroughly reviewed.

Learning Objectives:
- To understand fundamentals of CAD/CAM technology
- To compare conventional preparations vs CAD/CAM preparations
- To know adhesive CAD/CAM cavity preparation design
- To introduce different CAD/CAM Technologies
- To know the digital impression: how it affects marginal fit and how to obtain accuracy?
- To understand the Digital Design: how to create anatomical and functional restorations using different fabrication techniques
- To perform evidence-based decision making on materials selection: When to select which CAD/CAM block?
- To understand how unique ceramic reinforced-polymer systems, hybrid ceramic, and ceramic CAD/CAM materials provide solutions to create greater clinical success

Module II: Advanced CAD/CAM Techniques*

June 20 - 21, 2014
Lecture & Hands-On

This module will expose participants to advanced applications using CAD/CAM systems in cases requiring highly esthetic and more advanced restorations, such as veneers, implants, or multiple restorations. Proper selection of adhesive and luting materials and techniques will be thoroughly reviewed.

Learning Objectives:
- To know advanced CAD/CAM restorations: Veneers and implants
- To assess esthetic enhancement of CAD/CAM restorations
- To make selection of adhesive systems: Multi-step adhesives
- To define the best surface treatment for CAD/CAM restorations
- To fabricate and bonding of ceramic and hybrid ceramic restorations
- To be familiar with adhesive luting of CAD/CAM restorations

*Module II cannot be taken alone due to information provided in Module I.
**Module I: Adhesion and Composite Resin**

**May 2-3, 2014**

**Lecture & Hands-On**

**Pursuing the Ultimate with Esthetic Composite Restorations**

With a conservative approach in mind, the restorative team should be able to provide patients with minimally invasive, highly esthetic, and long-lasting solutions. This program will focus on current key clinical and material science principles as a foundation to create imperceptible composite restorations. In addition, this course provides a systematic and scientific approaches for selecting esthetic treatment modalities, based on original research data with special emphasis on techniques and new materials design and selection.

**Learning Objectives:**

- To know different types of composites and how to foresee the polishing, wear, and esthetic properties of different composite materials
- To understand how layering affects chroma, value, and the final shade
- To know how to obtain natural opalescence and fluorescence
- To learn natural stratification for esthetic composite restorations
- To understand finishing and polishing techniques that mimic the natural dentition

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