Course Objectives

Learn new materials, techniques and tips to optimize the performance of today's adhesives, flowables, composites, ionomers and cements.

Course Description

During this presentation you will see both clinical and technical results with today's restorative products and cements. Adhesives have changed rapidly in recent years. How are the new universal systems working? Nanotechnology: What can it offer to restorative materials, from adhesives to flowables to universals to glass ionomers? We will also discuss new bulk-fill posterior restorative options. Cements: With the increase in ceramic restorations, cementation has become a topic of interest. Today's systems are stronger, more efficient, and more color stable. CAD/CAM restorative options are also on the rise, and will be a topic of discussion.

From a clinical perspective, techniques and tips collected through collaborations with clinicians around the globe will be highlighted.

Disclaimer:
The clinical examples will be 3M Orical Care products, but the techniques discussed would apply to many products.

The clinician will be able to:

• Differentiate between the generations of dental adhesives and identify when each might be appropriate.
• Optimize the use of total and self etch adhesives.
• Understand today's "Universal" adhesives
• Identify appropriate uses for today's improved flowable resins.
• Differentiate between the various options in composites; microfills, hybrids, and nanocomposites.
• Discuss the esthetic options in today's composites. Introduce basic and advanced layering concepts.
• Implement new placement techniques for posterior composites.
• Identify problems with light-curing and how to optimize your technique.
• Describe when and why resin modified glass ionomers might be a prudent alternative filling material.
• Cementation: Describe and contrast the three main approaches to cements; RMGI, Self-adhesive and Adhesive. When each are appropriate.
• Cementation: Use the best surface treatment of indirect restoratives for optimum performance.
• CAD/CAM: Describe the most recent advances in material for chairside CAD/CAM dentistry.

About the Speaker

After training as a Chemical Engineer, Jon Fundingsland joined 3M in 1979. During his long career in dental materials, Jon has held positions of increasing responsibilities in the areas of Research, Product Development, Technical Services, International Professional Service, and Scientific Affairs Manager for the Restorative Business Team. His current assignment is as Professional Relations Manager. Jon has been granted 9 patents pertaining to various aspects of adhesives, and was on the development teams for such products as Scotchbond Multi-Purpose Plus, Vitrebond Linear Base, Single Bond and Filtek Supreme. Jon has lectured extensively, in over 30 countries, on the design and efficacy of dental adhesives, composites and ionomers. Numerous technical presentations and papers are also on record.