



Friday, September 30, 2022 at the Sharonville Convention Center

**“Contemporary Dental Ceramics” and “Materials
and Techniques to Improve Class II Composites”
- 6.5 CE Credits**

Nathan Lawson, DMD, PhD

*(Dental Hygienists, Dental Assistants & Administrative Personnel of
registered dentists for this course are invited to attend if space permits.
See tuition charge on registration form.)*

First Course

New ceramic materials have changed the way we practice dentistry by offering a strong, esthetic, and affordable restorative option for our patients. But ceramic materials do not handle the same as metal-based restorations and improper selection or handling can lead to premature failure. This course will teach you how to select and handle different types of ceramic materials that are currently used in dentistry that will be much less confusing than typical marketing rhetoric. We will review the best clinical practices based on research studies conducted at the UAB School of Dentistry and provide pearls for you to take back to the office.

Learning Objectives

1. Review the different types of dental ceramic materials.
2. Choosing a ceramic material for anterior restorations.
3. Preparation and design considerations for posterior crowns and bridges.
4. Strategies to adjust, polish, and cut off ceramic crowns.

Continued on next page

Second Course

Class II composite restorations remain the bread-and-butter procedure of many general dentists. Although this procedure may seem trivial, there are many clinical factors which lead to a long-lasting restoration, including diagnosis, isolation, caries removal, cavity preparation, use of liner, matrix and wedge placement, bonding technique, composite placement, and finishing and polishing. This course aims to review the techniques for each of these steps based on current evidence.

Learning Objectives

1. Discuss treatment guidelines for interproximal caries and caries removal endpoints.
2. Discover materials and techniques to promote a long-lasting adhesive bond and create a well-adapted restoration.
3. Analyze matrix utilization and contouring instruments to achieve a tight and well-contoured contact.

About the Speaker

Nathaniel Lawson DMD PhD is the Director of the Division of Biomaterials at the University of Alabama at Birmingham School of Dentistry and the program director of the Biomaterials residency program. He graduated from UAB School of Dentistry in 2011 and obtained his PhD in Biomedical Engineering in 2012. He has served as an investigator on over 50 clinical and laboratory research grants, and published over 150 peer reviewed articles, book chapters, and research abstracts. His research interests are the mechanical, optical, and biologic properties of dental materials and clinical evaluation of new dental materials. He was the 2016 recipient of the Stanford New Investigator Award and the 2017 3M Innovative Research Fellowship both from the American Dental Association. He has served on the American Dental Association Council of Scientific Affairs and is on the editorial board of *The Journal of Adhesive Dentistry and Compendium*. He has lectured nationally and internationally about dental materials. He also works as a general dentist in the UAB Faculty Practice.