

**University of the Pacific Arthur A. Dugoni School of Dentistry
Virtual 122nd Alumni Annual Meeting**

Subject Area: Cosmetic Dentistry

Edward A. McLaren '83, DDS

Friday, February 26, 2021
9:00 am – 12:15 pm – 3 units

Repeated session:

Friday, February 26, 2021
1:00 – 4:15 pm – 3 units

Title:

“Contemporary Ceramics: 2021”

Course Description:

This presentation will cover many of the current “hot topics” in current dental ceramics from minimally invasive veneer restorations, to full coverage monolithic ceramic restorations. The lecture will go into how I design, and plan an esthetic case. It will also clarify the most appropriate clinical situations and restorative requirements of the various ceramic systems from conventional feldspathic glass systems, glass ceramic systems, to solid sintered mono-phase Zirconia based systems, both layered and the used of the newer higher translucent “monolithic” higher CUBIC PHASE zirconia materials. Clinical and esthetic guidelines for using these ceramic systems will be covered. This presentation will focus on specific clinical indications and contraindications for the use of the various ceramic systems, specifically for no-prep, minimal prep, and normal prep veneers, inlay/onlay, “vonlay (combination of veneer and onlay), and crown clinical indications.

This presentation discusses the most effective use of computerized shade taking systems and will present data comparing the efficacy of computerized systems to visual shade taking.

The presentation will cover a broad range of ceramic systems and their application in veneer, inlay, onlay, vonlay and crown. Specifically high strength glass ceramic and solid sintered Zirconia based ceramic systems will be detailed from prep to cementation along with laboratory guidelines to minimize or eliminate the widely discussed porcelain chipping problem. Current cutting edge concepts and issues and research with cements and cementation both adhesive and non-adhesive will be featured.

Objectives:

- 1) Treatment planning and case set-up
- 2) The materials and clinical indications for use of conservative (minimal or no-preparation) techniques for anterior bonded porcelain restorations.
- 3) Clinical indications for normal and more aggressive porcelain veneer situations where mostly dentin is exposed.
- 4) Clinical indications, materials, and techniques for Inlays, Onlay's, and Vonlay's
- 5) New Glass ceramics: Lithium Disilicates and Zirconia Reinforced Lithium Silicates
- 6) Clinical situations and materials when a crown is indicated.
- 7) Layered Zirconia based ceramics- problem solving porcelain chipping
- 8) Higher "Cubic" Phase Zirconia Monolithic systems.
- 9) Digital impressions, Chair Side Cad-Cam, and the DDT "digital dental team" concept
- 10) State of the art Adhesion, Cements and cementation

Short Bio:

Dr. McLaren is a Prosthodontist and Master Dental Ceramist. Dr McLaren is a retired Professor from both UCLA and UAB School of Dentistry. He was founder and first director of the Post Graduate Esthetic Dentistry at the UCLA school of Dentistry. He was the director of the UCLA Center for Esthetic Dentistry, a full time didactic and clinical program for graduate dentists. He was also the founder and director of the UCLA/LACC Master Dental Ceramist program. The post-graduate program is a full-time master ceramist program for dental technicians featuring extensive experience with the newest esthetic restorative systems. At UAB he was founder and first director of the Advanced Dental Esthetics, founder director of the Advanced Dental Esthetics, Restorative & Biomaterials Program, founder and director 3-year advanced ceramics and digital technology for technicians program, founder and director one-year esthetic and restorative fellowship Restorative & Biomaterials Program, founder and director 3-year advanced ceramics and digital technology for technicians program, founder and director one-year esthetic and restorative fellowship.

Dr. McLaren currently is the CEO of ArtOral America a private teaching institute based in Park City Utah, he maintains a private practice limited to prosthodontics and esthetic dentistry in which he did all of his own ceramics.

Dr. McLaren is still actively involved in many areas of prosthodontic and materials research and has authored or co-authored over 90 articles. He is performing ongoing clinical research on various restorative systems. He has presented numerous lectures, hands-on clinics and postgraduate courses on ceramics and esthetics across the nation and internationally. He recently published a book, on his ceramic techniques and features dental photographic art, entitled "The Art of Passion: Ceramics, Teeth, Faces, and Places."