Digital Restorative Dentistry
GLENN E APPLETON DDS
Ceramic blanks with varying density allowing for light absorption and translucency
PFM crowns with unaesthetic shading

Teeth whitened with Korr bleaching technique and the central incisors replaced with Cerec Empress Cad crowns
Ceramic luecite blank with dome shaped 3d density
Teeth #'s 6-11 Pfm crowns
Patient wanted a “whiter “ smile
Teeth #’S 6-11 replaced with CEREC Vita Real Life luecite ceramic crowns
Implant supported Crowns

Milled zirconia custom abutment

Empress Cad crown tryin

Empress Cad crown stained and glazed and cemented
Posterior Crowns

Lithium Disilicate (Emax)

achieve optimal esthetics, virtually perfect contacts and occlusion, and impressive strength. Its unique lithium Disilicate ceramic provides flexural strength of 360-400 MPa, making it the ideal high-strength solution for single-unit anterior or posterior crowns, veneers, inlays, onlays, screw-retained implant crowns, 3-unit anterior bridges or restorations with minimum preparation dimensions.

Conventionally cement using resin ionomer cements or bond for maximum retention on nonretentive preparations. Lithium disilicate ceramic is biocompatible and provides more than double the flexural strength of IPS Empress® Esthetic.

Emax restorations are milled in a violet color, once crystalized in a ceramic oven they achieve their true color and glaze
Lower molar with failing amalgam restoration

Initial occlusal reduction

Final preparation with laser gingival troughing

Emax crown adjusted, crystalized, glazed and cemented
Recurrent caries on tooth #18,19 and 20

Tooth preparation design depends on caries removal and unsupported enamel

Final restorations cemented
Posterior Crowns

**Incoris- Bruxir**

BruxZir Solid Zirconia is indicated for crowns, bridges, implants, inlays and onlays. It is an esthetic alternative to PFM metal occlusal/lingual or full-cast restorations. The chip proof durability of BruxZir is ideal for bruxers who have broken natural teeth or previous PFM restorations. BruxZir is also ideal when the patient lacks the preparation space for a PFM.
BruxZir (Incoris) restorations are milled in a starch white form.

When the milled restorations are sintered in a ceramic oven they will convert to their respective shade and glaze.
Fractured amalgam restoration with recurrent caries

BruxZir (Incoris) onlay cemented
TOOTH CHARACTERIZATION
Adjacent Tooth Staining Technique
Adjacent Tooth Staining Technique

Glaze Porcelain Surface
Adjacent Tooth Staining Technique
Dentin Characterization

Dentin A-2

Dentin a-2
Cervical/ incisal orange
Adjacent Tooth Staining Technique

• Dentin Body Stain
Adjacent Tooth Staining Technique

- Incisal Translucency
Adjacent Tooth Staining Technique

• Incisal Translucency
Adjacent Tooth Staining Technique

• Halo and Interproximal stain

Halo shade A-2 Stain

Halo Shade A-2 Stain
Interproximal White Stain
Adjacent Tooth Technique

• Interproximal White Stain
Adjacent Tooth Technique

• Fired Restoration
Posterior Staining Technique
Posterior Staining Technique

Glaze Porcelain Surface
Posterior Staining Technique

• Inclines

Inclines stained with A-2 Dentin
Posterior Staining Technique

- Incisal Stain

Incisal stain shade 11
Cusp tips stain white
Posterior Staining Technique

• Pit Fissure Stain

Pit Fissure stains Ochre
Posterior Staining Technique

- Fired

Inclines stained with A-2 Dentin