

***"Modern Digital Dentistry - Possibilities
and Limitations of the Chairside Application"***



Our patients are demanding more esthetic, durable and minimally-invasive restorations these days. There is also a strong desire for a one-visit treatment without the need of a temporary restoration. The combination of digitally manufactured all-ceramic restorations and the adhesive cementation technique facilitate long lasting restorations resulting in significant preservation of tooth structure and excellent esthetics meeting the highest patient demands. However, small mistakes in the various clinical steps of the treatment sequence and the manufacturing process can compromise the clinical long- term success of our digitally produced restorations.

Dr. Michael Dieter will present the latest innovations in the chairside digital workflow with a focus on material selection, intraoral scanning and completion of the final restoration.

The great potential of the chairside CAD/CAM treatment will be displayed as well as its limitations and the decision to transfer the intraoral scan data to the dental laboratory for further processing.

Learning objectives:

- Intraoral scanning strategies – fast and precise
- Material selection considering esthetics, strength, invasiveness and clinical longevity
- Optimum tooth preparation designs for CAD/CAM restorations
- Surface treatment of CAD/CAM materials prior to cementation
- Clinical tools to avoid post-operative sensitivity after cementation

Dr. Michael Dieter, DDS

Private Practice, Switzerland

Head of Global Education Clinical

Accurate milling of STL's with PrograMill PM7



Dt. Claudio Joss



Claudio Joss will show and explain the labside workflow after receiving and importing the dentist's intraoral scan data into the CAD software. The further processing of the data will include the creation of the CAD design and the easy and rapid transfer to the PrograMill CAM software generating the innovative CAD output format CAM5. To understand the differences between a raw STL and a CAM5 output format the workflows in the CAM software will be shown and explained. The final restoration will be milled from the latest Zirconium Oxide material utilizing the PrograMill PM7 and stained & glazed for ultimate esthetics.

CV

Claudio Joss is a certified dental technician. After obtaining his Swiss federal diploma in dental laboratory technology, he worked for various laboratories in Switzerland as an all-round technician, ceramist and laboratory manager. He joined Ivoclar Vivadent in Schaan, Liechtenstein, as Senior Manager Global Education Technical / Digital in January 2009. In this position, he is responsible for the training of third-party commercial organizations (dealers) and customers all over the world as well as for the in-house training of international staff in CAD / CAM products and workflows. In addition, he is in charge of organizing and managing in-house global education meetings. He lectures at international conferences and supports R&D in the development of new products in close collaboration with the marketing and sales departments.