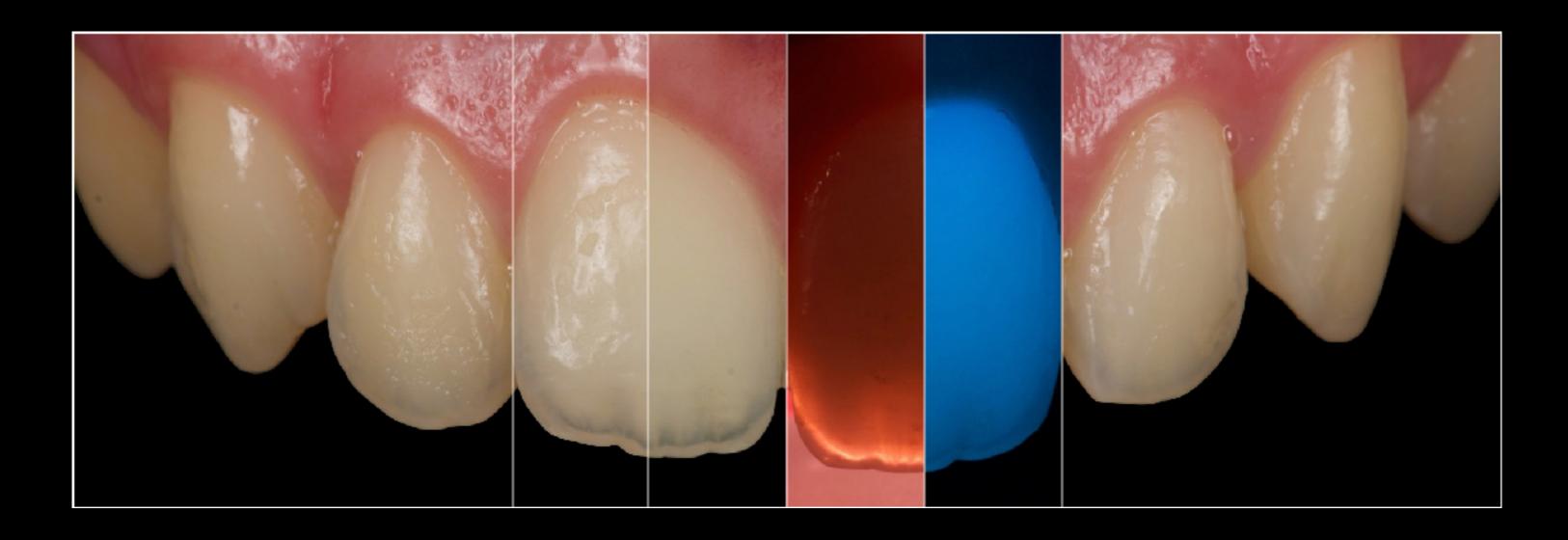


mastering dental photography

color, photography and digital post-processing



B E L G I U M 18th & 19th April 2024

W O R K S H O P



mastering dental photography

An intensive two-day program searching for the excellence in the analysis and comprehension of color in dentistry, dental photography and RAW digital post-processing.

For clinicians and technicians

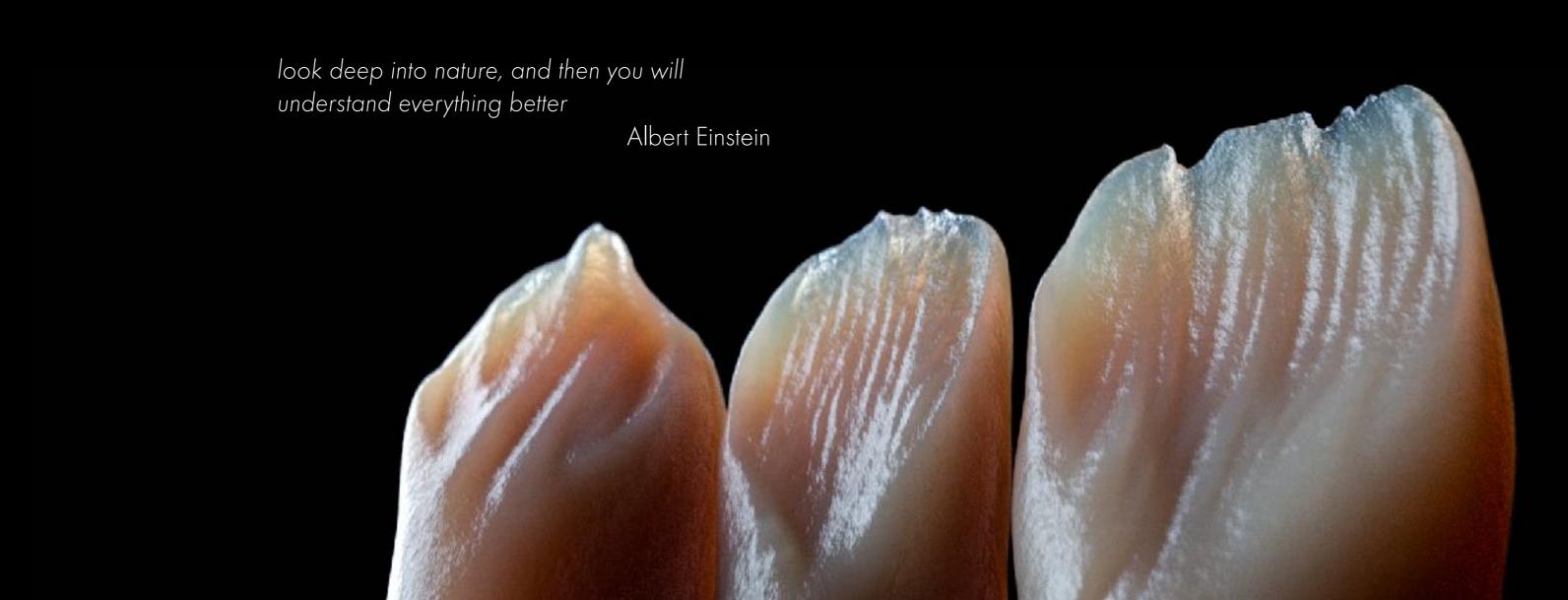


The Bio-Emulation approach as written in structural analysis and visual synthesis defined the new bases to consider for replication of natural tooth structures with composite resin. The penta_laminar concept represents the ultimate implementation of this philosophy: analysing different ageing stages to build a dynamic shade concept that adapts to nature. However, feasibility of application of this concept is compromised by it's intrinsic complexity, not accessible to all clinical conditions. By analysing the key factors of natural structure's ageing process and applying this knowledge to the material selection, it is possible to simplify techniques to make them approachable in all situations.

Achievement of aesthetic restorations that resemble natural teeth represent a great challenge for both dentists and technicians. Obtaining optimal results with the minimum number of try-in tests or repetitions necessarily implies performing a systematic and exhaustive shade analysis. Advanced photographic techniques need to be used for this task, including different kinds of illumination and precise calibration of RAW files.

Defining proper shade selection strategies for both composites and ceramics is of paramount importance for our daily work. The Bio-Emulation approach provides specific tools designed to increase dramatically the accuracy of our shade matching, including the custom_eyes shade tabs as well as the "state of the art" eLAB protocol, which changes the classic subjective approach into a new completely objective one with the maximum predictability.

Ultimately, a successful treatment will always be the outcome of a good communication with patient and perfect teamwork between dentist and technician.



program Day_One

theoretical program - part 1

- Mastering Color:
 - Basic color parameters: hue, chroma y value.
 - Translucency as value modulator.
 - Texture as value modulator.
 - Opalescence and fluorescence: myths and legends.
- Bio-Emulation: a new approach to color in dentistry:
 - Optical properties of dental structures.
 - 3D anatomy: enamel vs dentin.
 - Understanding dental tissues ageing process.

- Dynamic light observation.
- The penta_laminar concept: a dynamic layering approach.
- Practical Implementation: is it possible to simplify?
- Emulating nature with a limited amount of shades. Simplification criteria.
- Clinical application.
- The tri_laminar concept: a simplified vision for posterior restorations.

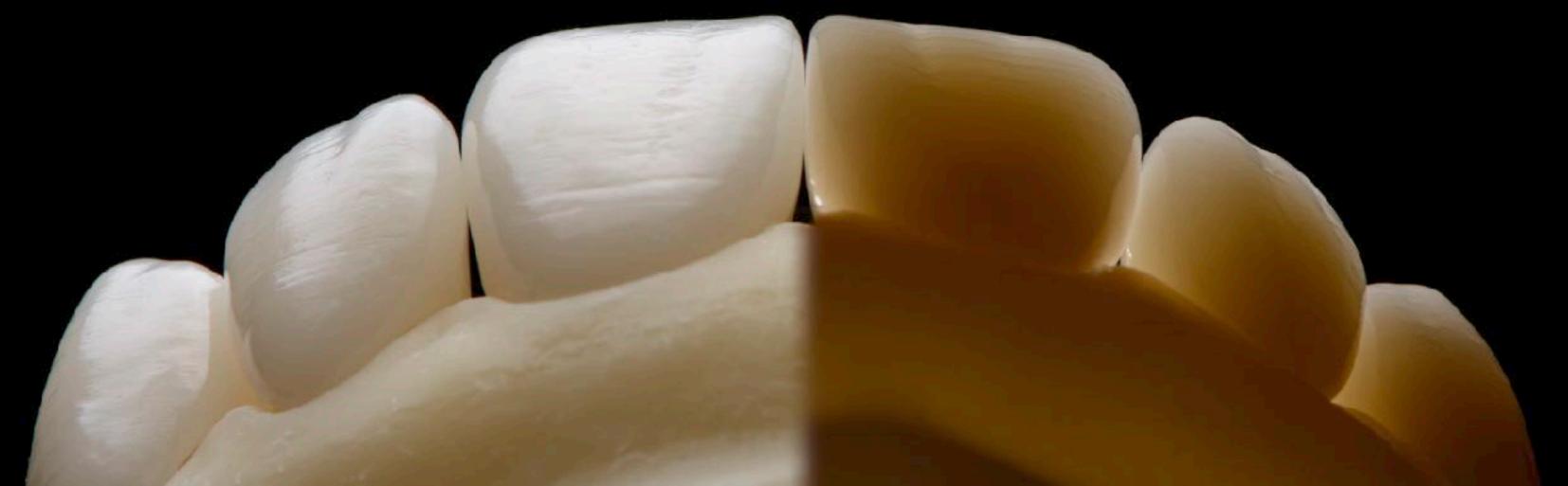


theoretical program - part 2

- Introduction to digital photography
- The photography equipment: body, lens & illumination systems. Recommendations for dental photography,
- Revisiting essential concepts for dental photography: shutter speed, aperture, depth of field, ISO and white balance.
- Digital formats: RAW vs JPEG.
- Exposure control through histogram information.
- Optimising settings to maximise the information recording: understanding photography as capture-processing binomial.

- The digital workflow: calibration and preset creation for batch-processing.
- Bio-Emulation: polar_eyes, fluor_eyes, white_balance & axis.
- Bio-Emulation: advanced photography protocol.
- eLAB®: the revolution in shade management: capture calibrate create





eLABor_aid: a new approach to digital shade management

powered by Bio-Emulation



















program Day_Two

practical-demo program - capture

- Basic photography. Get the maximum out of your ring flash.
- Advanced photo protocol step by step:
 - twin flash
 - polar_eyes
 - transillumination
 - fluor_eyes
 - diffusers / bouncers
- White balance calibration with white_balance™ card.

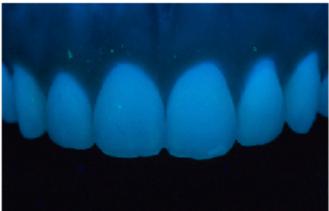
- Photography protocol for eLAB® technique.
- Working models photography.
- Artistic photography.
- Work with participants cameras to fine tune for optimal settings.

advanced dental photo protocol











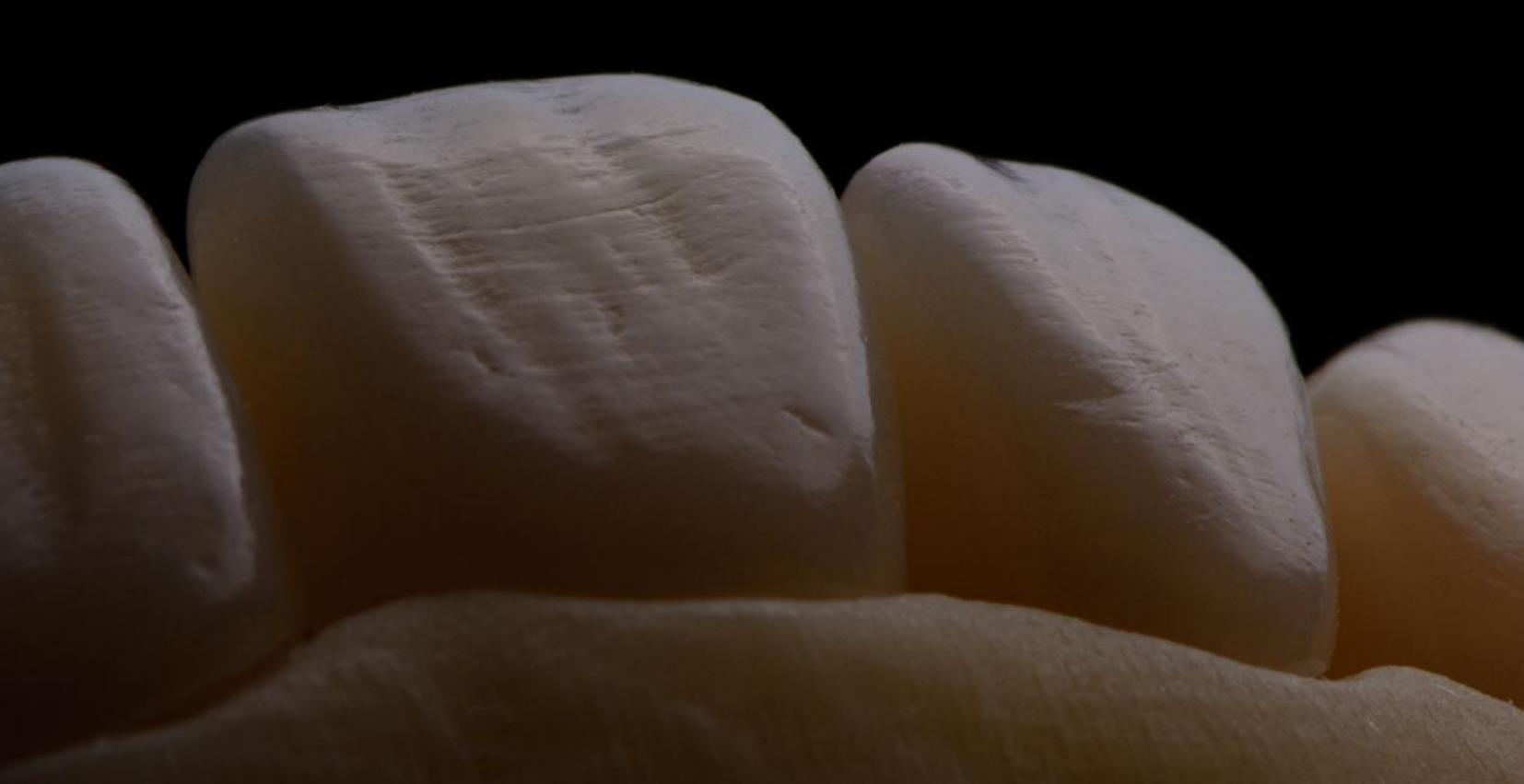
twin flash

polar_eyes

transmission

fluor_eyes

bouncers



program Day_Two

practical-demo program - processing

- Import and basic use of Adobe Bridge & Camera Raw.
- Tags, keywords and other organization tools in Adobe Bridge.
- White balance calibration.
- Presets creation inside Camera Raw.
- Advanced digital post-processing.
- Artistic post-processing.

- Export and file optimisation for different purposes.
- Photography calibration for eLAB® measurements.
- Digital color measurements.
- Color measurement with eLAB prime.
- Strategies for working with eLAB technique.



javiertapiaguadix ddscgiartist



Javier Tapia Guadix was born in 1978 in Madrid, Spain. He finished dental school at the European University of Madrid in 2003.

In 2005 he started his career as professional computer graphics artist, focused on illustration, animation and application development in the dental field.

He received the Collegiate Merit Award by the Spanish College of Dentists from the 1st Region in 2005, for his collaboration in the commission of new technologies.

In 2011 he founded together with Panaghiotis Bazos and Gianfranco Politano the Bio-Emulation group.

He actively collaborates with several universities across Europe in their post-graduate programs and is member of the GC Restorative Advisory Board. In 2017 he became official reviewer for the International Journal of Esthetic Dentistry.

Javier works in private practice in Madrid, focused on adhesive dentistry and aesthetics.

He is an international lecturer with participation in more than 300 congress, hands-on courses and live courses. He published several articles in restorative dentistry, dental photography and computers in dentistry.





