Simon GRAF

Suisse

Friday, January 25 **11h40 – 12h30**		ROOM : FORUM 2/3

Academic studies :

- Dentist, University of Bern 17.10.2007 Postgraduate program, orthodontic department of the University of Basel August 2009 - September 2012.
- Opening Smile AG (german for: Smile Inc.) Private orthodontic clinic in Belp, Switzerland February 2014.

Main topics :

Simon Graf has a specific interest in the translation of production of orthodontic appliances in the digital world. He started in the beginning of 2014 with a cad/cam-procedure for 3D- metal-printed rapid-palatal-expansion device(hyrax) directly from an intraoral scan. As soon he was able to establish a standardized protocol for this appliance, he continued to work on the herbst-appliance, lingual arch etc. and proceeded to bone-borne appliances.
As the materials are evolving, he is now working on acrylic direct printed removable appliances. Also, he is involved in the development of self-designing appliance software. He is lecturing about these topis since 2016 worldwide.

CAD/CAM in orthodontics :

In his mainly clinical based lecture Simon Graf presents as an introduction a comprehensive overview about intraoral scanning and handling of 3d data in orthodontics. Then he proceeds with the transfer from classic metal orthodontic appliances(eg. Rapid palatal expander) to the digital world, with virtual design and direct 3d-metal printing without a physical cast. He demonstrates as well a comprehensive way, how to integrate TADs in the digital workflow with different possibilities.
As the 3d-printable biocompatible class IIa materials are evolving, he shows a way, how to direct print removable appliances with the inhouse-printer.
Like in the end of a treatment, he finishes with direct digital produced bonded retainer and with a lookout about the near future in orthodontics and his ongoing projects.