“Digital Orthodontics and its Rightful Place in the World of Traditional and Contemporary Orthodontics.”

M. Alan Bagden DMD…Springfield, VA, USA

Lecture summary:

Evolving digital technology has brought new diagnostic and treatment techniques for orthodontists to be able to further refine patient results. First, a PVS impression or (in the future) a digital impression scan can be taken and sent for conversion to an IT center through the cloud. The resulting digital image is returned to the orthodontist, who can manipulate the image on a PC, incorporating particular nuances for each individual patent. This is then sent back for final conversion to an orthodontic appliance (in indirect bonding trays) including patient-specific wires that are returned to the orthodontist for application to the patient.

Practitioners may question..."Is this what our predecessors had in mind when they created the original orthodontic appliances...and...where is this leading us?"

This seminar will give the background of orthodontic digital technology and provide photographic treatment progressions and results produced via digital orthodontics, so that the attendees can formulate their own conclusions and opinions on the current "state-of-the-art" orthodontics.

Lecture outline:

1) Origin and evolution of Digital Orthodontics
2) Steps required to successfully implement digital orthodontics into a contemporary practice
3) Torque Discussion. What does digital orthodontics tell us about what we have thought about torque since the inception of straight wire appliances?
4) Sample case showing strengths and weaknesses of digital orthodontics
5) Conclusions based on more than 100 completed digital orthodontic cases. Does it/ will it have a rightful place in orthodontic history?
6) What is in the future of digital orthodontics?

The attendees should gain the following knowledge from this presentation:

a) What are the necessary steps to be taken to produce high quality, digital orthodontic results?
b) What are the limitations, if any, of digital orthodontics?
c) What are the perceived advantages and disadvantages of digital orthodontics compared to conventional/traditional orthodontic treatment