

# 2014-11-05 Pre-JCEG Meeting Notes

- [8am-11am Ortho Insight 3D](#)
- [1pm-3pm Open Source Dental Tools](#)
- [1:50p AAOF Legacy Collection](#)

## 8am-11am Ortho Insight 3D

Remote presentation by Dan Knoch ([dan@inn-soft.com](mailto:dan@inn-soft.com)) over screensharing and telephone. Dan shows some functionality. The group introduced itself and commented on the software. Questions included:

- Possibility to match CBCT scans to make use of roots, and see other relevant information like soft tissue.
- User interface is too complex, learning curve is high, too many buttons in too little space. Too many click to do things.
- Most orthodontists start with the horizontal bracket alignment line. The software starts with the vertical line.
- Difficulties exporting PLY and OBJ files.
- Can it detect collisions? Yes.
- Can it show 1:1 size? Yes, calibration is really easy with 1mm grid.
- Too much emphasis on the bracket type: orthodontists usually have a mental picture of the wire, and place brackets where they need to go. Orthodontists think Teeth first, bracket last.
- axis of tooth are confusing: they are not the same as in literature. Z is up and down, but in the software Y is up and down and Z is missing.

Dan continues to show how the 3D model can be overlapped with a 3D facial scan.

- Is it possible to connect a cephalogram with facial scan and 3D model.
- Do the tooth movements change the soft tissue: we are not there yet, should have it by the 1st of the year.
- What is used for registration? 1) Use lateral head film to attach face and teeth, then align. System already knows size. 2) <not discussed>
- How about exporting the file in other software? Yes. Can export to STL and PLY. PLY allows for color, STL doesn't allow for color. OBJ and PLY do support color, and they are supported.
- How did you pick the automated landmarks for the face? Auto-recognition is currently not available. When or how will it be available? New version will be coming out in a few weeks. In new version, you can split screen and see multiple version of face at the same time. Auto-recognition should be done, don't know what the release schedule is. He does know they have done lots of work on it.
- Is there any documentation? Email Dan at [dan@inn-soft.com](mailto:dan@inn-soft.com).
- Can you record true vertical and true horizontal recorded and remembered each time patient is opened? Yes, it should do that. But is there a way to save it, so it can't be manipulated? No, but it's a good idea.

## 1pm-3pm Open Source Dental Tools

- Open image: gipl format [ITK-SNAP](#) de-identification
- [Slicer](#): approximate Images
- ITK-Snap + Slicer-Int.Seg. to construct 3D Surface models. ITK-Snap will allow us to further edit the image.
- Voxel Based registration
- Convert into surface formats
- [Shape Population Viewer](#)
- Pick'n Paint GUI made with 3D Slicer
- Easy Clip GUI made with 3D Slicer

## 1:50p [AAOF Legacy Collection](#)

Sean Curry presenting.

Collection is done, stable, and in maintenance mode. Showed statistics of usage, which has gone up significantly compared to last year.

There is a concern about protecting the images from being distributed outside the collection (i.e. somebody gets a copy, and gives them to somebody else). It is hard to control where the images go. Thinking about using another download mechanism that allows better download tracking and control, over the current FTP based mechanism.