

## **Kudos**

### **Innovation & Technology Update from the Medical Anatomy Center (MAC):**

Brion Benninger MD MSc, Professor of Medical Innovation, Technology & Research and Clinical Anatomy presented an innovative imaging technology to OMS I's during their Medical Anatomy course which he has termed as "DynaStatic Imaging anatomy". They were the first students to receive this technology worldwide. He is Beta testing and developing this 3D interactive anatomy imaging program on the Sectra visualization table which he can project onto lecture screens and monitors. The concept is essentially selecting an anatomical structure or system which remains static as a suspended structure or system on an interactive 3D screen, while selecting a 1mm cross-sectional plane of anatomy from the same individual which can be maneuvered anywhere along the body to view structures on either side of the cross-section in relation to the static structure. He isolated and suspended a single 1mm transverse cross-section plane, then reveal the skeletal, nervous, vascular or muscular systems in the superior-inferior and anterior-posterior planes moving through the cross-section so students could see on either side of the cross-section.

He integrated the "DynaStatic anatomy" technology program with traditional x-rays and ultrasound.

Professor Benninger is to developing technologies and educational techniques which can benefit any healthcare provider assessing imaging and/or conducting surgical and invasive procedures. We conduct open or scope operations from superficial to deep exposing a region which has width, length and depth, be it pyramidal etc... but cross-sectional CT/MRI imaging is set between an average of 3mm-1mm thickness sections. There is a disconnect between how we teach anatomy globally and what is the required practicing anatomy associated with the technology being used. This technology will aid a trainee in better understanding the anatomy associated with imaging and/or surgical invasive procedures of a given region. It will also provide opportunities for our students, curriculum and branding WesternU.