



Don't miss two upcoming presentations by OIC....



September 23 – 24, 2014 | Mississauga, ON

**Medical Manufacturing Innovations**

**Additive Manufacturing/3D-Printing & Bioprinting**

## Linking Medical and Aerospace Additive Manufacturing – Why they work so well together

*Day 2 – 10:30am*

**Martin Petrak, Orthopaedic Innovation Centre (OIC)**



As 3D printing moves from prototyping to additive manufacturing, finding good applications and making a profit can be a challenge due to a number of factors intrinsic to the technology. The promise has been around for a long time, but how can a company become profitable using additive manufacturing? Two industry sectors stand out as the highest potential application areas for additive manufacturing – Medical Devices and Aerospace Parts. Although these sectors serve completely different markets, there are a number of commonalities between them that can allow an additive manufacturing organization to serve both markets. Find out why they work so well together and how this translates into profit.

## Oreo Can Run Again – How Innovation, Collaboration, and FDM Came Together

*Day 2 – 2:00pm*

**Dale Kellington, Orthopaedic Innovation Centre (OIC)**



A dog in need of a new knee cap triggered a rapid innovation in implant technology, bringing together a cross-functional team of veterinary surgeons, orthopaedic surgeons, and biomedical engineers working thousands of miles apart, to create a custom patella implant in 4 days. Oreo, a 6 year-old dog, suffered a dislocated left hind kneecap. The kneecap was removed to relieve the pain but the dog was lame after the surgery. The Orthopaedic Innovation Centre (OIC) created an innovative solution using the latest design technologies and fused deposition modeling (FDM) 3D printing technology to produce a patella implant that is custom tailored to the dog's femur and quadriceps. Find out how this team came together and used the latest technologies to provide a rapid customized implant.