



UAA Professional Development Seminar Series

A Multi-Process Approach Towards
Manufacturing of High-Performance
Magnesium Alloy Parts

Presented by

of magnesium alloys in their products and applications. However, mass production of complex parts is often challenging, leading to significant compromises in material performance or part geometry. In this presentation, the recent progress on the methods to overcome technological challenges related to the manufacturing process are discussed. Also, the refinement of microstructure of automotive magnesium alloys with ceramic additives prepared by Spark Plasma Sintering (SPS) process will be discussed and related.

Materials Science and Engineering at the University of Toronto. Dr. Bichler established two laboratories at UBC focusing on multi-process approach to materials development: Metalcasting laboratory for advancement of magnesium and aluminum alloys, and Spark plasma sintering laboratory for advanced ceramic, metallic, nano and functionally