

Abstract Submitted
for the OSS10 Meeting of
The American Physical Society

***In vivo* decomposition study of coated magnesium alloys¹**
DESIREE WHITE, TYLER PIERSMA, DAVID LECRONIER, Kettering University, XINGGUO CHENG, Southwest Research Institute, MONTSERRAT RABAGO-SMITH, Kettering University, MONTSERRAT RABAGO-SMITH COLLABORATION², XINGGUO CHENG COLLABORATION³ — In the last decade, magnesium has resurged as an important biomaterial. Its mechanical properties are very similar to natural bone, and it degrades *in vivo* to non toxic substances. Unfortunately, corrosion of pure magnesium *in vivo* is rapid, thus coated alloys that decrease its corrosion could be used as implants in orthopedics. This presentation will describe the degradation results in cell cultures and in rats.

¹Kettering University, SWRI

²Kettering Univ.

³SWRI

Desiree White
Kettering University

Date submitted: 09 Apr 2010

Electronic form version 1.4