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***In vitro* decomposition study of coated magnesium alloys**[1] TYLER PIERSMA, Kettering University, DESIREE WHITE, XINGGOU CHENG, MONTSERRAT RABAGO-SMITH, DAVID LECRONIER, MONTSERRAT RABAGO-SMITH COLLABORATION[2], XINGGOU CHENG COLLABORATION[3] — In the last decade, magnesium has resurged as an important biomaterial. It's 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 it's corrosion could be used as implants in orthopedics. This presentation will describe the degradation results in a simulated body fluid (SBF).

[1]Kettering, Southwest
[2]Kettering University
[3]Southwest Research Institute

Tyler Piersma
Kettering University

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