Please join us in one of the Shepherd S-STEM Club Seminars:

Revisiting What Euler and the Bernoullis Knew About Convergent Infinite Series

By Dr. James Sellers, Professor and Director, Undergraduate Studies
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Time and location: 3:15-4pm, Thursday November 13, 2014 @ SS312

Abstract: All too often in first-year calculus classes, conversations about infinite series stop with discussions about convergence or divergence. Such interactions are, unfortunately, not often illuminating or intriguing. Interestingly enough, Jacob and Johann Bernoulli and Leonhard Euler (and their contemporaries in the early 18th century) knew quite a bit about how to find the *exact* values of numerous families of convergent infinite series. In this talk, I will show you two sets of *exact* results in this vein. The talk will be accessible to anyone interested in mathematics, so bring a friend!

Dr. James Sellers received his Ph.D. from Penn State University in 1992. After receiving his PhD, he taught at Cedarville University in Ohio for nine years before returning to his alma mater in 2001 to serve as a faculty member and the director of the undergraduate program in mathematics. In 2008, James served as a Visiting Fellow of the Isaac Newton Institute in Cambridge, and in 2012 he was privileged to be a Fulbright scholar, teaching and completing research at the Johannes Kepler University and the Research Institute for Symbolic Computation in Linz, Austria. In May 2013, he delivered a series of lectures at the University of the Witwatersrand while serving as a visitor to The John Knopfmacher Centre for Applicable Analysis and Number Theory. Currently, James has over 70 papers listed in Mathematical Reviews, and he has won numerous awards from his department at Penn State and his section of the Mathematical Association of America for both his teaching and his service to the mathematical community.

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