1116-F5-191 **Deane E. Arganbright*** (argandeane@yahoo.com), 129 Gene Adams Road, Martin, TN 38237. Find Trig Boring? Look Anew!

We extend the traditional, and too frequently uninspiring, applications of standard trigonometry classes by the use of the interactive and animated graphics of Excel coupled with an extensive range of creative non-traditional applications. These applications illustrate the use of trigonometry in unexpected areas of future university study beside and beyond calculus. Our models can be presented in an interesting and intriguing manner – and created by students – at both the secondary and undergraduate levels. This talk provides illustrations of trigonometry in a wide range of disciplines, including mathematics (geometry, topology, linear algebra, modeling), art (Celtic curves, quilt patterns), computer graphics (animation, morphing), social sciences (human cultures), education (alphabet and counting books), and the sciences (electronics). We have used this approach in both advanced and developing nations, and we provide files for those interested. (Received August 12, 2015)