## 1145-I5-1585 William Johnston\* (bwjohnst@butler.edu). Riemann Surfaces and Other Projects on Mathematica.

This talk presents five easy and interesting CAS projects for students in an introductory complex analysis course. They include such projects as one on graphing Riemann surfaces, whose Mathematica set of commands can be applied to a host of interesting functions and that are meant to lead students into asking thought-provoking questions – ones that that can lead, for example, into independent student investigation. It also describes an associated novel complex analysis course outline designed to make the course topics better connected to single-variable calculus. Of course, the commands in Mathematica can easily be modified to work in, say, Maple or MatLab, but the presentation will use only Mathematica. A hard copy (and/or e-copy) of the five projects' set of Mathematica command lines will be available for any interested audience member. (Received September 23, 2018)