

1125-VH-2667 **Jeff Poet*** (poet@missouriwestern.edu), 4525 Downs Drive, CSMP, Saint Joseph, MO 64507,
and **Laurie Heyer**. *Optimizing the Search Space for New Biological Riboswitches – An Applied
Combinatorics Problem.*

In an interdisciplinary research project with biologists, our team of undergraduates was asked to optimally design a large library of related genetic devices. The team developed several results, anticipating the unspoken potential restrictions of the biologists. (Received September 20, 2016)