

1067-92-2056

Tracie McLemore Salinas* (salinastm@appstate.edu), Department of Mathematical Sciences, Appalachian State University, Boone, NC 28608, and **Rene A. Salinas** (salinasra@appstate.edu). *Using Disease Models to Develop Teacher's Understanding of Modeling.*

As part of the professional development of the Teacher Algebra Network, an MSP grant, we explored modeling with teachers of grades 6-12. One of the workshops explored three representations of disease models: 1) Difference equations, 2) Digraphs, and 3) Excel spreadsheets. The idea was to demonstrate to teachers that there are numerous mathematically relevant approaches for studying one interesting topic. In this talk we will discuss the content of this workshop and how the adoption of the Common Core Standards by nearly 40 states provides a particularly opportune moment for developing teachers' understanding of modeling. (Received September 22, 2010)