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**R. Thelwell\*** (thelwell@math.jmu.edu), MSC 1911, James Madison University, Harrisonburg, VA 22807, and **J. von Fischer, G. Butters** and **P. DuChateau**. *Methane activity in soils*.

Methane is an important greenhouse gas, but estimates of methane emission are often difficult. Methane activity appears to vary greatly with soil type and condition. We present a preliminary report of our efforts to model methane dynamics in a variety of soils. Nanotechnology makes an appearance as we tune the model. (Received September 20, 2007)