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**Suzanne Lenhart\*** (lenhart@math.utk.edu), U of Tennessee, Math Dept, Knoxville, TN 37996,  
and **Sergei Avdonin** and **Jason Bintz**. *An application of Parabolic PDEs on  
graphs*. Preliminary report.

We present an optimal control problem on contaminants in a river system. This application uses parabolic partial differential equations on graphs and the control is the contaminant input rate at specific locations in the river system. (Received September 17, 2012)