1067-39-754 **Chris R Ahrendt*** (ahrendcr@uwec.edu), University of Wisconsin-Eau Claire, Department of Mathematics, Hibbard Hall 525, Eau Claire, WI 54701. *Recursive Representations for the Unique Solution of the Transport Equation on Isolated Time Scales.*

In this talk, we will develop two recursive representations for the unique solution of the transport partial dynamic equation on an isolated time scale. We will then use these representations to explicitly find the solution of the transport equation in several specific cases. Finally, we will compare and contrast the behavior with that of the well-known behavior of the solution to the transport partial difference equation in the case where $\mathbb{T} = \mathbb{Z}$. (Received September 14, 2010)