1051-13-175 **Sean Sather-Wagstaff*** (sean.sather-wagstaff@ndsu.edu), **Neil Epstein** and **Karl Schwede**. *Semidualizing modules over certain Veronese subrings.* Preliminary report.

Let R be a local Cohen-Macaulay ring. A finitely generated R-module C is *semidualizing* if $\operatorname{Hom}_R(C,C) \cong R$ and $\operatorname{Ext}^i_R(C,C) = 0$ for all $i \geq 1$. A free R-module of rank 1 is semidualizing, as is a dualizing R-module. The existence of nontrivial semidualizing R-modules implies that R satisfies certain structural and numerical conditions. Hence, we are interested in describing all the semidualizing modules over certain classes of rings. In this talk, we will show that if k is a field and $R = k[\![X^d, X^{d-1}Y, \dots, Y^d]\!]$, then R has exactly two semidualzing modules, namely R and the dualizing module for R. (Received August 24, 2009)