1056-11-1637   **Xuemei Ye***, yexuemei@msu.edu, and **Aklilu Zeleke**. *Some Remarks on Diophantine Triples*. Preliminary report.

Let a, b, c be positive integers. We say the triple (a, b, c) is a Diophantine triple if $ab + 1$, $bc + 1$ and $ac + 1$ are all perfect squares. In this talk we discuss algorithms and recurrence relations that can be used to generate infinite sequences of Diophantine triples. Some generalizations to the case when $ab + d$, $ac + d$ and $bc + d$, for $d > 1$ will also be presented. (Received September 22, 2009)