1145-11-1566 **Joshua Harrington** and **Lenny Jones*** (lkjone@ship.edu). *A New Condition Equivalent to the Ankeny-Artin-Chowla Conjecture.*

Let $p \equiv 1 \pmod 4$ be prime, and let $\epsilon = (t + u\sqrt{p})/2$ be the fundamental unit of $\mathbb{Q}\left(\sqrt{p}\right)$. In 1952, Ankeny, Artin and Chowla asked if ϵ always has the property that $u \not\equiv 0 \pmod p$. The conjecture that the answer to this question is affirmative is known as the *Ankeny-Artin-Chowla (AAC) conjecture*, and is still unresolved. In this presentation, we present a new condition that is equivalent to the AAC-conjecture. (Received September 23, 2018)