1047-47-198 **Yun-Su Kim*** (`Yun-Su.Kim@utoledo.edu`), Department of Mathematics, Mail Stop 942, The University of Toledo, 2801 W. Bancroft St., Toledo, OH 43606-3390. *Every transcendental operator has a non-trivial invariant subspace.*

In this talk, contraction operators are classified into three classes ; (Case 1) completely non-unitary contractions with a non-trivial algebraic element, (Case 2) completely non-unitary contractions without a non-trivial algebraic element, or (Case 3) contractions which are not completely non-unitary. We know that every operator of (Case 3) has a non-trivial invariant subspace. In this talk, we answer to the invariant subspace problem for the operators of (Case 2). (Received January 28, 2009)