

**Meeting:** 999, Nashville, Tennessee, SS 13A, Special Session on Semigroup Theory

999-20-87            **Boyko G. Gyurov\***, Department of Mathematical Sciences, University of Arkansas, SCEN-301, Fayetteville, AR 72701, and **Boris M. Schein**. *Maximal inverse semigroups of transformations*. Preliminary report.

The problem of describing maximal inverse semigroups of transformations of a set raised in 1960 has not been solved yet (except various examples of such semigroups produced in the literature). A substantial progress in an analogous problem of describing maximal semilattices of transformations was achieved by S. Crvenković and M. Kunze. We present partial results in the first problem together with a description and classification of maximal Clifford inverse semigroups. (Received August 12, 2004)