

Meeting: 1006, Lubbock, Texas, SS 1A, Special Session on Topology of Continua

1006-54-7 **Dušan Repovš*** (dusan.repovs@guest.arnes.si), Institute for Mathematics, Physics and, Mechanics, University of Ljubljana, Jadranska 19, P. O. Box 2964, 1001 Ljubljana, Slovenia. *A new construction of simply connected noncontractible cell-like continua.*

It is well known that all simply connected acyclic or cell-like polyhedra are contractible spaces. We shall present joint work with K. Eda and U.H. Karimov, the main result of which is a construction of the functor $SC(-, -)$ from the category of path connected spaces with a base point and continuous mappings to the subcategory of simply connected spaces. In the case when Z is a Peano continuum, $SC(Z, z_0)$ is also a Peano continuum and when Z is a finite-dimensional noncontractible space, the space $SC(Z, z_0)$ is also finite-dimensional and noncontractible. (Received October 25, 2004)