$Po_8$ 

## THE SYNTHESIS OF UNUSUAL ORGANOFLUORINE COMPOUNDS

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Recently a number of very new and interesting classes of compounds have been synthesized. These new species include the first perfluoro crown ethers, new high molecular weight perfluorocarbon cyclic compounds such as perfluorocyclotetradecane, and a very interesting class of perfluoroethers of medium molecular weight that are nearly spherical in shape which have been nicknamed 'perfluoro ball bearings'. Additionally the synthesis of bulky organofluorine compounds with pendant SF<sub>5</sub> groups such as 1-pentafluorosulfur perfluoroneopentane and a number of other equally interesting organofluorine sulfur compounds will be discussed.