Monolayer solids of short (perfluoro)alkanes on graphite L.W. BRUCH, University of Wisconsin-Madison — Calculations are reported for the relative stability of monolayer solid latices on graphite for $C_2H_6$, $C_3H_8$, $C_2F_6$, and $C_3F_8$. Triangular, centered rectangular and two-sublattice herringbone lattices are treated. The calculations use all-atom (AA) models and are based on non-bonding interactions formulated for three dimensional dense phases of alkanes and perfluoroalkanes.