metal halides, alkaline earth metal halides, ZnS, ZnSe, ZnTe, CdS, CdSe, CdTe, and KCl_{1-x}Br_x, ZnS_{1-x}S_x, CdS_{1-x}Se_x. The Grüneisen parameters for the long wavelength optic mode phonons for these solids have been determined. Such studies are useful in attempting to learn more about the lattice dynamics of solids. The results, together with non-ambient temperature studies, are helpful in determining anharmonic interactions in solids, and testing certain models proposed for ionic solids.

- (2) The measurement of the pressure dependencies of the ion-pair vibrations in non-aquous solutions of ionic solutes. Such results have aided in studying and understanding the theory of solutions, and determining the short-range forces and dynamics of ions in solutions.
- (3) The study of the pressure behavior of the low frequency modes
 in coordination compounds and inorganics has aided in making
 assignments in the FIR region. Certain vibrations are extremely
 pressure sensitive and may be identified by their pressure
 sensitivities.

(4) The study of the pressure effects of the low-frequency spectra of Ni(II) five coordinate complexes has resulted in a better understanding of certain Jahn-Teller effects occurring in these solids. Pressure studies may be helpful in determining the stereochemistry around the central Ni(II) atom.