GENEALOGY DATABASE ENTRY

Ferry, John Douglass 1912 -

DEGREE: PhD DATE: 1935 PLACE: Stanford
TEACHER/RESEARCH ADVISOR: Parks

investigated the relationship of the modes of molecular motion in macromolecules to their mechanical and other physical properties; pioneered the use of rheological methods to study the viscoelastic and other aspects of the dynamics of macromolecules, ranging from synthetic polymers to biological macromolecules including proteins and nucleic acids; developed methods to estimate the distance between entanglement points and cross links in polymers; related the glass-to-rubber transition in polymers to specific structural parameters; pioneered the use of infinite dilution techniques to study polymers; first to correctly describe the mechanism of the fibrinogen to fibrin conversion.

1. Research advisor was confirmed by comparison of thesis title and publications.
2. *Macromolecules* **1987**, *20*, 909-910.
3. *McGraw-Hill Modern Men of Science*; McGraw-Hill: 1966; vol. 1, p367-368.
4. *Rubber Chem. Technol.* **1981**, *54*, G72-G82.
5. *J. Polym. Sci., Polym. Phys. Ed.* **1983**, *21*, frontispiece.