

PETROGRAPHY AND MINERALOGRAPHY

Rock Collections.- The collections of rock specimens for lecture and demonstration purposes are ample for present and immediately future needs; for advanced work and research we require to purchase sets of rocks from special localities and specimens of unusual rock types. (Estimate, a minimum of \$250 for specimens and thin sections required)

Thin Sections of Rocks.- What was said of rock specimens applies equally to thin sections. Systematic collections of all types of rocks are being arranged and thin sections of these must be made for their petrographic study.

Microscopes.- The department possesses one research model petrographical microscope, 3 better grade student microscopes and 10 ordinary student models of older style. There are sufficient of the latter for present needs for the undergraduate work, but they should be repaired and supplied with modern equipment at about \$25 each. These are also used for graduate work at present, but three more of the better grade are urgently required. (Estimate, 10 x \$25 = \$250; 3 x \$250 = \$750; total, \$1,000) There is immediate need for one or two additional research microscopes. (1 x \$1250 = \$1250). As matters now stand, there are no microscopes available for the exclusive personal use of members of the staff, and the one research model is of necessity used by students who require precision in their descriptions of new material of their theses.

Besides the above, a number of instruments are required for research work; these are noted in the general list attached.

It should be noted that the equipment on the top floor of the Chemistry and Mining building for cutting, grinding and polishing rocks and minerals for study purposes is practically worn out as well as being antiquated. An item of \$1000 has been added to rehabilitate this equipment, but the mechanics report is adverse to spending any large sum except to replace the equipment entirely.