Vascularity of the Brain of Amblystoma
Paul G. Roofe
University of Kansas
Project Number 92

The salamander, *Amblystoma tigrinum melanosticium*, adults and larvae used in this study were collected in the Jackson Hole area.

Observations and Studies Made.

35 craniotomies successfully made.
100 readings from each hemisphere (olfactory lobes).
7000 counts of capillary loop dimensions.
4 photographs from each olfactory lobe, a total of 140 exposures, in the above mentioned region.
Measurements on the specimens: weight, length, eye width, jaw width, jaw length, fore and hind limb length, pectoral width, belly width.

The weight of all visceral organs will be obtained for correlation studies. These will include the heart, lungs, stomach, spleen, pancreas, small and large intestine, kidney and gonads.

Scientific Manuscripts Planned.

Capillary Patterns in the *tigrinum melanosticium*.
Rate of Flow and Volume of Blood. (The rate will be taken from a movie previously made and the volume from the data collected at the Station.)
Correlation of Weights, Lengths, and other Dimensions of the *Amblystoma tigrinum melanosticium*.

Comparison of Montane Ant Communities
Gerald and Coral Scherba
Chico State College
Project Number 80

Only a week was spent at the Station this summer during which time the ant colonies on Moose Island were mapped and marked for further study.