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## Notes on Some Shells, Ferns, Etc. - Collected in Deacatur County, Iowa and Lyon County, Kansas, in the Summer of 1886

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certain details in the anatomy of the genus. Observations were made to determine whether there were any facts in the external anatomy that could be utilized in the determination of sex. This question was answered in the affirmative. The gross anatomy of the reproductive organs was then discussed and illustrations of the various parts were exhibited. Notes on fecundity were also submitted. The entire paper was published in the *American Naturalist*, Vol. XXII, pp. 491-497, in June, 1888.

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### ON A NEW FOSSIL LIMNÆID FROM THE POST-PLEIOCENE OF CALIFORNIA.

BY PROF. R. ELLSWORTH CALL.

(Abstract.)

This paper described as new to science, a fossil shell found in the post-pleiocene deposits of the Tassajara Hills, and now deposited in the collections of the University of California. It belongs to that sub-group of limnæid mollusks which is typified by the genus *Pompholyx*, but differs therefrom in some important particulars. It is made the type of a new genus and species, being described under the name of *Pompholopsis whitei*. The paper may be found in full in *The American Geologist*, for March, 1888, Vol. I, No. 3.

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### NOTES ON SOME SHELLS, FERNS, ETC.,

Collected in Decatur County, Iowa, and Lyon County,  
Kansas, in the Summer of 1886.

BY PROF. F. M. WITTER.

(Abstract.)

Grand River, Long Creek and the Little Rivers yielded almost no water mollusks.

Four examples of *Unio schoolcraftii* Lea, one *U. lævissimus* Lea, and one *Helix clausa* Say. Of the Ferns the following were observed: *Osmunda claytoniana*, *Botrychium virginicum*, *Adiantum pedatum*, *Cystopteris fragilis*, *Asplenium felix-femina* and *Onoclea sensibilis*.

In Kansas, at Topeka, an abundance of *Physæ* and *Planorbis* were seen along the river in a pond.

At Emporia in the Neosha, in an hour, the following were taken; 32 *Unio undulatus* Barnes, 21 *U. gibbosus* Barnes, 7 of which had white nacre, 11 *U. rubiginosus* Lea, 5 *U. schoolcraftii* Lea, 4 each of *occidens* Lea, *anodontooides* Lea, *lachrymosus* Lea, and *coccineus* Hild., 3 *purpuratus* Lam., 2 each of *subrostratus* Say, *tuberculatus* Barnes and *ligamentinus* Lam., 12 *Marg. complanata* Barnes. 1 *rugosa*, Barnes, and 1 *Ano. bealei*, Lea, in all, 108 specimens. In Allen Creek, near by, were found *Unio camptodon* Say, *subrostratus* Say, *Unio parvus* Barnes, *undulatus* Barnes, *Marg. complanata* Bar., *Ano. bealei* Lea, *Planorbis trivolvis* Say, *bicarinatus* Say, *Physa anatina* Lea, *Ancylus tardus* Say, *Sph. stamineum*, Con, *transversum* Say, *Succinea ovalis* Gould, and the curious little mimic insect *Helicopsyche arenifera*.

*Unio camptodon* (12 specimens) were found to be alive after remaining out of water, in a very dry place, from July 22d till August 29th, 1886. They were kept alive at Muscatine in a tub of water till about the 1st of January, 1887.