

have been of great service in improving the water communications of North America and have thereby rendered valuable aid to commerce.

Mackay's Lake, East River, St. Mary's, is very rich in organic siliceous remains.

At a meeting of the French Academy, March 31st, Brogniott announced the discovery, in the rich carboniferous deposits of Commentry, of new gigantic forms of insects, of the type of Dictyonera, in which the expanse of wing was nearly twenty-eight inches.

LITERARY NOTICES.

The August CENTURY, which is the "Midsummer Holiday number" is unusually fresh and attractive, even for that eminently popular magazine. It carries an odor of fields and flowers and an insidious suggestiveness of holiday rambles that make a pleasing loneliness in the hearts of those who are not dead to the attractions of nature.

The American Meteorological Journal for May and June have been received. This Journal is published at Detroit, Mich. by W. H. Burr & Co, at \$3.00 a year. It is the only American publication devoted exclusively to a subject that is attracting increased attention every year. The two numbers before us have been gotten up with a great deal of care and contain much valuable matter. We commend this journal to all interested in meteorological studies.

That enterprising monthly magazine *The Naturalist's World*, published at Ilkley England is about to present, with an early number, a series of facsimile autographs of eminent naturalists and scientific men of the day. Among the signatures the following will be especially noticeable:—SIR JOHN LUBBOCK, M. P., F. R. S., PROF. T. H. HUXLEY, F. R. S., RICHARD JEFFERIES, THE REV. J. G. WOOD,

M. A., F. L. S., DR. TAYLOR, F. L. S., Editor of *Science Gossip*, and many others.

The American NATURALIST for July has been received full as usual of original work and the latest Natural History discoveries. In its eighteen volumes the American Naturalist must contain an encyclopædia of the Natural Sciences especially of the American developments in them during the past eighteen years. We have in the one before us the description of a new infusorian by *Alfred C. Stokes*, the "Theory of sex and sexual Genesis," *Hallingsworth*, "On the evidence that the Earth's interior is solid" *Woodsworth*, "The Tertiary mammalia" *E. D. Cope*, "Vestiges of Glacial man in Minnesota" *Miss Bobbit* "Zoology in the National Park" *Editor*. Among very many other interesting points we have under Geology the "Pacific Isles" In Geography "Extinct Mammalia of India" and in Microscopy, "Sections of Diatoms."

Exchange Department.

This department is for the use of subscribers whose notices will be inserted several times free. For non-subscribers the charge is five cents a line.

Mr. A. Delugin, pharmacien, Blois, Loir et Cher, France, desires North American coleoptera (genus *Donacia*). He offers in exchange numerous coleoptera from France; also a collection of the French *Donacia*.

Minerals, Foreign Stamps and Shells to exchange for Minerals. Correspondence solicited with advanced collectors only.

THOMAS S. ASH.

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E. J. SMITH, box 35, Natick, Mass., desires any of the following species of shells in exchange: *Neptuna Islandica*, *N. Decemcostata*, *Fasciolaria Ligata*, *Scalaria Groenlandica*, *Callista Connexa*, *Pecten Islandica*, *P. Tenuicostata*, *Chitons*, *Thracias*, or any Northern species not common in Mass.