

On leave granted, a vote of thanks was ordered to be tendered to Mr. I. W. Gregory, for the body of the Bengal tiger, presented this evening.

April 26th.

Vice-President BRIDGES in the Chair.

Forty members present.

The report of the Biological Department for the present month was read.

On report of the respective Committees, the following papers were ordered to be printed in the Proceedings :

Descriptions of Eight New Species of UNIONIDE, from Georgia, Mississippi, and Texas.

BY ISAAC LEA.

*UNIO SPISSUS*.—Testâ levi, ellipticâ, subventricosâ, posticè obtusè angulatâ subæquilateralî; valvulis crassis; natibus prominulis; epidermide striatâ, rufo-fuscâ, obsoletè radiatâ; dentibus cardinalibus magnis, erectis, compressis, crenulatis, in utroque valvulo subduplicibus; lateralibus longis, crassis subcurvisque; margaritâ vel purpurâ vel salmonis colore tinctâ et iridescente.

*Hab.*—Savilla River, Wayne County, Georgia. T. C. Downie.

*UNIO CORVUS*.—Testâ levi, subtriangulari, subcompressâ, inæquilateralî, posticè obtusè biangulatâ; valvulis crassis, anticè crassioribus; natibus subprominentibus; epidermide nigricante, supernè glabrâ, politâ, infernè striatâ; dentibus cardinalibus subgrandibus, subconicis striatisque; lateralibus longis curvisque; margaritâ albâ et iridescente.

*Hab.*—Buckhead Creek, Burke County, Georgia. Bishop Elliott; and Ogechee River, Georgia. Prof. Hanley.

*UNIO BURKENSIS*.—Testâ levi, transversâ, compressâ, ad latere planulatâ, inæquilateralî, posticè biangulatâ; valvulis crassiusculis; natibus prominulis; epidermide fusco-flavicante, micante et obsoletè radiatâ; dentibus cardinalibus breviusculis, compressis, acuminatis; lateralibus longis rectisque; margaritâ purpurascente et iridescente.

*Hab.*—Buckhead Creek, Burke County, Georgia. Bishop Elliott.

*UNIO AUREUS*.—Testâ levi, subtriangulari, compressâ, ad latere paulisper planulatâ, subinæquilateralî; valvulis subcrassis, anticè crassioribus; natibus subelevatis, ad apices acuminatis; epidermide aurâ, striatâ, obsoletè radiatâ; dentibus cardinalibus crassis, erectis, striatis, in utroque valvulo duplicibus; lateralibus curtis et obliquis; margaritâ albâ et iridescente.

*Hab.*—Texas. W. Newcomb, M. D.

*UNIO CURTUS*.—Testâ levi, obliquâ, ad umbones valdè tumidâ, anticè truncatâ, posticè obtusè angulatâ, valdè inæquilateralî; valvulis percrassis, anticè crassioribus; natibus elevatis, crassis, ferè terminalibus; epidermide tenebrosocastaneâ, ad apices virescente, obsoletè radiatâ; dentibus cardinalibus subgrandibus, compressis, acuminatis, obliquis; lateralibus crassis subcurvisque; margaritâ argentâ et iridescente.

*Hab.*—Tombigbee River, Columbus, Mississippi. Wm. Spillman, M. D.

*UNIO PERMISCEUS*.—Testâ levi, obovatâ, inflatâ, posticè latè rotundatâ, valdè inæquilateralî; valvulis tenuibus; natibus prominulis; epidermide tenebrosofuscâ, nigricante, obsoletè perradiatâ, nitidâ; dentibus cardinalibus parvulis,

[April,

a vote of thanks was ordered to be tendered to Mr. the body of the Bengal tiger, presented this even.

April 26th.

President BRIDGES in the Chair.

present. Biological Department for the present month was

respective Committees, the following papers were in the Proceedings :

New Species of UNIONIDÆ, from Georgia, Mississippi, and Texas.

BY ISAAC LEA.

lævi, ellipticâ, subventricosâ, posticè obtusè angulatâ, ulis crassis; natibus prominulis; epidermide striatâ, biatâ; dentibus cardinalibus magnis, erectis, compressis, valvulo subduplicibus; lateralibus longis, crassis subcurvaturâ purpureâ vel salmonis colore tinctâ et iridescente. Wayne County, Georgia. T. C. Downie.

lævi, subtriangulâri, subcompressâ, inæquilaterali, posticè valvulis crassis, anticè crassioribus; natibus subprole nigricante, supernè glabrâ, politâ, infernè striatâ; subgrandibus, subconicis striatisque; lateralibus longis, nitidâ et iridescente. Burke County, Georgia. Bishop Elliott; and Ogechee, Prof. Hanley.

lævi, transversâ, compressâ, ad latere planulatâ, inangulatâ; valvulis crassiusculis; natibus prominulis; ante, micante et obsoletè radiatâ; dentibus cardinalibus, acuminatis; lateralibus longis rectisque; margaritâ nitidâ et iridescente. Burke County, Georgia. Bishop Elliott.

lævi, subtriangulâri, compressâ, ad latere paulisper ovali; valvulis subcrassis, anticè crassioribus; natibus acuminatis; epidermide aureâ, striatâ, obsoletè radiatâ; crassis, erectis, striatis, in utroque valvulo duplicibus; iquis; margaritâ albâ et iridescente. Newcomb, M. D.

lævi, obliquâ, ad umbones valdè tumidâ, anticè trunculatâ, valdè inæquilaterali; valvulis percrassis, anticè levatis, crassis, terè terminalibus; epidermide tenebrosescente, obsoletè radiatâ; dentibus cardinalibus subacuminatis, obliquis; lateralibus crassis subcurvisque; nitidâ et iridescente. Wm. Spillman, M. D.

lævi, obovatâ, inflatâ, posticè latè rotundatâ, valdè tenuibus; natibus prominulis; epidermide tenebrosescente perradiatâ, nitidâ; dentibus cardinalibus parvulis,

[April,

compressis, obliquis; lateralibus prælongis, lamellatis subcurvisque; margaritâ cæruleo-albâ et valdè iridescente.

Hab.—Tombigbee River, Columbus, Mississippi. Wm. Spillman, M. D.

MARGARITANA ELLIPTICA.—Testâ lævi, ellipticâ, subinflatâ, subæquilaterali, posticè obtusè angulatâ; valvulis tenuibus; natibus subprominentibus, ad apices subconcentricè undulatis; epidermide luteo-virente, glabrâ, nitidâ, perradiatâ; dentibus cardinalibus parvis, compressis, in utroque valvulo singulis; margaritâ cæruleo-albâ et iridescente.

Hab.—Tombigbee River, Columbus, Mississippi. Wm. Spillman, M. D.

ANODONTA TEXASENSIS.—Testâ lævi, ellipticâ, inflatâ, ad latere rotundâ, inæquilaterali, posticè subangulatâ; valvulis pertenuibus; natibus subprominentibus, ad apices biundulatâ; epidermide dilutè luteâ, glabrâ, fulgidâ, obsoletè radiatâ; margaritâ cæruleo-albâ, diaphanâ et valdè iridescente.

Hab.—Texas. W. Newcomb, M. D.

ICHTHYOLOGICAL NOTICES.

BY CHARLES GIRARD, M. D.

XLI. Since we are again called upon to mention the genus *Zygonyx*, we will venture to point out such structural peculiarities, as, in our opinion, may be considered its generic characters. Body rather slender and elongated, compressed, subfusiform in its profile, and covered with well developed scales. Head rather small, depressed, subpyramidal. Mouth very protractile, its gape being horizontal, whether in a protracted or a retracted condition. Teeth upon the premaxillary bones and upon the lower jaw; an external series slender and acerated, behind which may be observed a band of velvet-like ones. The origin of the anal fin is opposite the anterior margin of the dorsal, or in advance of it. The genus *Zygonyx* appears to be intermediate between *Hydrargyra* and *Gambusia*, resembling more the former by its general aspect, and the latter by its structure.

Specimens of a species of this genus, and which we call *Z. pulchellus*, were collected in Sugar Loaf Creek, Arkansas, by the party under Capt. A. W. Whipple. The largest one measures two inches and a half in total length, of which the head constitutes rather more than the fifth. The eye is large and circular; its diameter entering four times in the length of the side of the head. The dorsal and anal fins are deeper than long; the anal being larger than the dorsal, and placed more anteriorly, so that its anterior margin is nearly equidistant between the apex of the snout and the posterior margin of the caudal fin. The tip of the posterior rays of the dorsal extend as far as the insertion of the caudal, that is, a little further backwards than the tip of the posterior rays of the anal fin. The ventrals and the pectorals are but moderately developed; the tip of the former extends to the vent, whilst the latter do not quite reach the insertion of the ventrals. The rays of the various fins are as follows:—D 9; A 13; C3, 1, 7, 6, 1, 3; V 6; P 13.—There are twelve longitudinal rows of scales between the anterior margin of the dorsal and that of the anal fin. The surface of the scales has a rather rugose appearance, owing to the conspicuousness of the concentric lines of growth. The scales themselves are deeper than long, anteriorly subtruncated or subconvex; undulating and rounded off upon the remaining edges.

The ground color is olivaceous brown, of a darker tint along the dorsal region than over the abdomen. A black band or streak extends from the nose, across the eye, along the middle of the flank to the base of the caudal fin. Small black dots, constituting four or five irregular longitudinal series, may be observed on either side of the dorsal region, above the lateral streak; the dorsal, anal, and caudal fins being likewise dotted with black, whilst the ventrals and pectorals are unicolor, like the abdomen.

1859.]

