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to the labors of others, is to be given in a second memoir on the anatomy and development of Limulus polyphemus, in course of preparation.-A. S. Packard, Fr.

Zoölogical News.-A number of papers on the Hymenoptera and Coleoptera of the United States, by Messrs. E. Norton, C. A. Blake and Dr. Horn, are in course of publication in the Transactions of the American Entomological Society of Phila-delphia.-A detailed and fully illustrated account of the development of Palamonetes vulgaris, by Mr. Walter Faxon, appears in the Bulletin of the Museum of Comparative Zoollogy.-MMr. S. H. Scudder, of Harvard University Library, Cambridge, has nearly ready for publication by the Smithsonian Institution an index to all genera hitherto proposed in zoollogy, whether for recent or fossil animals. It is to be based upon the "Nomenclators" of Agassiz and Marschall, and the indexes to the Zoölogical Record.-Prof. Allen Thompson, in Nature, confirms the statement that the scorpion commits suicide by stinging itself in the middle of the top of its head.- The early stages of the Cœecilians, or blind snakes, have recently been discussed by Peters, according to Nature. An observer in Cayenne saw, according to Herr Wrzensniowski, of Warsaw, a female Cecilica compressicauda give birth, in water, to two young ones alive. The Russian observer, on receipt of the alcoholic specimens, found in the oviduct five more young ones. The young had no trace of lateral gill openings like those discovered in Epicrium glutinosum of Ceylon, but it has external bladder-like gills, like those of Notodelphys ovifera. Hence these blind amphibia should, when young, be looked for in water. Cacilia oxyura has branchial clefts but no external gills, while C. rostrata of the Seychelles has neither branchial clefts or a swimming tail, or any scars showing the former presence of external gills.

## ANTHROPOLOGY. ${ }^{1}$

Anthropological News. - The following vocabulary of the Caddoquis, or Caddo, language was received from Judge J. F. H. Claiborne, of Natchez, Miss., who writes, "It was prepared and sent to my uncle, Gov. Claiborne, of Louisiana, by Dr. Sibley, agent for the Caddos, an educated gentleman. The southern Indians held this tribe in great respect for its supposed antiquity. It was known as the Father tribe."

Among the Smithsonian Comparative Vocabularies, now in charge of Major J. W. Powell, is a short one of the Caddo, No. 444, by Dr. D. J. Macgowan, taken in 1865.

All that remains of this once flourishing tribe are gathered on the Witchita agency, in the Indian Territory. The agent, Mr. A. C. Williams, reports their numbers at 467 persons, principally
${ }^{1}$ Edited by Prof. Oris T. Mason, Columbian College, Washington, D. C.
engaged as farmers and stock-raisers. They are a quiet and inoffensive people, most of whom have adopted the habits of civilized life.

Dr. Sibley's vocabulary was taken in 1804, when the Caddos were located on Red river, from Alexandria to Natchitoches, and follows the French orthography:

Fire, niquor
Water, cou cou
Earth, ouadat cequeteot
Air, yanour
Wind, havetour
Sky, quarchator
Sun, faquor
Moon, nis
Star, suoquas
Light, binaquor
Darkness, dasquoee
Day, nayañon
Night, naba
Heat, atedot
Cold, acourdot
Smoke, cousour
Cloud, carchavesa
Fog, cou sour quabariou
Rain, quaveour
Snow, ijna
Hail, tarsour
Ice, quitousour
Frost, devchea
Dew, cabariou
Rain-bow, nachnuvoin
Thunder, adenine
Lightning, avoidgnauia
Yesterday, nieschur
To-day, douria,
To-morrow, cearia
A day, ouiche deschar
A month, ouiche nis
A year, ouiche adavyour
Spring, asnis
Summer, yaar caades
Autumn, nibba
Winter, chei
Man, chouve
Woman, nateg
Boy siarches
Girl, nategches
Child, anin
Father, a-sin
Mother, sasin
Brother, nayin
Sister, dardin
Husband, arnouu
Wife, danayei
Son, anin quarcounté
Daughter, natichetez
The body, catocse
Head, quantour
Hair, bahat
Beard, sounnieites

Face, chanqua'er
Eye, chaor
Nose, souour
Cheek, chaminni
Chin, soun
Mouth, lip, ouar
Tooth, taor
Tongue, adetour
Ear, bistor
Neck, nachée
Arm, minni
W.rist, a

Hand, cenour
Finger, cebinour
Belly, binni
Back, chabaches
Side, quocher
Bubby, dantour
Nipple, dante echanqua
Thigh, quasour
Leg, casosce
Foot, nasour
Toe, senbitour
Skin, nousches
Nails, ceonour
Bone, narquour
Blood, baor
Life, quava
Death paquaca
Food, deace nouyour
Meat, quaoutour
Fat, acayou
Lean, nargou
Bread, dasquat
Indian-corn, quaces
Milk, sou-sou
Egg, nosbiquor
House, sahor
Mammoth, douriates
Buffalo, tanaa
Elk, oueyat
Deer, da
Bear, naoeches
Wolf, tacha
Panther, quiches
Wildcat, ouado
Polecat, vueiet
Fox, couons
Beaver, chestaor
Raccoon, hot
Opossum, narcous
Hare, diot
Squirrel, siouar
Flying-quirrel, detes:

Ground-squirrel, chiouva aquared
Mole, cequouva
Bird, banit
Eagle, ioy
Hawk, souit
Owl, ouous
'Turkey, nou
Swan, sartos
Wild-goose, quinar
Duck, can.
Turkey-buzzard, souquates.
Raven, ouvar
Crow, caquail
Black-bird, quacho
Crane, douno
Pigeon, ouáas
Pheasant, ounani
Partridge, colati
Mocking-bird, quathile quatou
Red-bird, laodoucé
Snake, quiqua
Lizzard, taquon
Butterfly, banous
Fly, quouni
Fish, bata
Frog, quidau
Gold, sounar aquayguo
Silver, sounar aquayou
Copper, dedot noustor
Stone, siguor
Wood, youcour
Gum, guaruoadat
Mountain, ouadat iniquo
Hill, chuquaet
Valley, nicquedaic
Sea, eiquot aicmaie.
Lake, equot
Pond, quanmachar
River, baat
Creek, nildday quayarda sar
Spring, quayardacha
Grass, adeitour
Tree, quardacha
Pine, devoas
Cedar, betes
Sycamore, quiour
Ash, quiquor
Elm, da auve
Beech, aligonqua danquone
Birch, saibatocha
Oak, ba
Chestnut, nouba
Hickory, nar
Walnut, sciar
Locust, danani
Mulberry, baie
Vine, sasour
Tobacco, yaar
Joy, quavrinout
Sorrow, gouienout
One, gauenie
Two, bit
Three, daauo

Four, evui
Five, de cequan
Six, danqui
Seven, bi cequan
Eight, daauo cequa
Nine, ivui cequa
Ten, benaar
Eleven-twenty,the numerals double
Twenty, benar bit
Thirty, benaar daauo
Forty, benaar evui
Fifty, benaar decequan
Sixty, benaar danqui
Seventy, benaar bicequa
Eighty, benaar davuecequa
Ninety, benaar ivuicequa
Hundred, ouische aa sour
Two hundred, carquaniauosit
Horse, detama
Dog, deches
White, aquayou
Black, adeguo
Green, barnuu sar
Blue, a sarquour
Yellow, aquaij quo
Red, atenou
Good, hanhat
Bad, avouna
Large, quarquavevour
Small, ayortetes
High, ayou
Low, naver,
Narrow, sidites
Old, anistes
Young, siarte
New, souroun
Hard, aiequai
Soft, achounou
Sweet, abe save
Sour, abasquo
Bitter, aquccho
Hot, atedos
Cold, acourdas
Dry, adaqui
Wet aquarquo
Strong, adasquar
Weak, aicquaie quoiace
Pretty, hanhat
Ugly, aouna
Sick, auequarion
Brave, ches soues
Cowardly, che inij inij
Wise, ouin anet
Foolish, quarnous quourdetau1
I, quarches
You, naquaya
He , deer
She, annas
They, davre
This, deschez
That, déhé
To eat, naquiar
To drink, naquarqua

To sleep, youdic
To laugh, saqua
To cry, nasaquaqua
To sing, yourneiyoeu
To whistle, youdanou
To smell, nasoeunout
To hear, youquaibe
To see, nasaibe
To speak, nasacoupinte
To walk, nasavear
To run, nasaninic
To stand, daarni
To sit, dataue

To lie down, darsa
To smoke a pipe, darquavra
To love, sendamane
To hate, atedo ciyer
To strike, younbin
To kill, youques
To dance, youvechan
To jump, avesaria
To fail, navvania
To break, yoniouva
To bend, darquven
Yes, aaie
No, aounna

Mr. James E. Rhoads, of Germantown, Philadelphia, also sends us a translation of the Lord's Prayer in Comanche, made two years since by Frank Maltby, an employé at Kiowa and Comanche agency, near Fort Sill, I. T. :

THE LORD'S PRAYER.<br>мAtt. VI. 9-I 3.

Our Father, which art in heaven, Täh Afpä, pěrkūne tömövät,
Hallowed be Thy name, Möhoits süicūt Uh nänia,
Thy kingdom come,
Pun'ĭht pĕrnĕ'mänärk täm'üŭcrěckín,
Thy will be done on earth, as it is in heaven,
Täh sö'könä̉k Uh pee prün'ēūne mahăn'ĕn, Uh pẹ̀rkūne hìãōrvīte,
Give us this day our daily bread,
Icistse täbä nĕmẽmälk nēmuētĕlhkärō,
Forgive us our debts, as we forgive our debtors,

Lead us not into temptation, but deliver us from evil, Tähkesiăăfpit kā tätshockäzuīte, kăsüä tāhn wē̈̈rö,
For Thine is the kingdom, and the power, and the glory, forever. Amen.
Un simōyc̆rökăzvect pünicks hĭn nämähcöcŭt, ter hin hanŭt, ĕrie naniavī, kānăckämīzitē. Soonēnähän.

The Fifteenth Bulletin of the United States National Museum contains the report of several naturalists upon the scientific results of the Howgate Expedition. Mr. Ludwig Kumlien, naturalist of the expedition, contributes a paper consisting of fragmentary notes on the Eskimo of Cumberland sound. There will be found enough of mythology and linguistics in the contribution to repay perusal.

Two works on the ancient races of America are advertised under the following titles: "Footprints of Vanished Races in the Mississippi Valley; being an account of some of the Monuments and Relics of Prehistoric Races scattered over its surface, with suggestions as to their origin and uses. By A. J. Conant, A.M. C. R. Barns, St. Louis, Mo. \$1.50." "The North Americans of Antiquity; their Origin, Migrations and Type of Civilization considered. By John T. Short. Pages 530. Harper \& Brothers, New York."

