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Department of Mollusks: Annual Report 1895 - 1896

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1. HOW HAS THE FISCAL YEAR ENDING JUNE 30, 1896, COMPARED WITH THE PREVIOUS YEAR, AS FAR AS (1) THE NUMBER OF ACCESSIONS AND (2) THEIR SCIENTIFIC VALUE ARE CONCERNED?

The number of accessions for 1895-6 is 118 against 111 for the previous year. Though some of them are valuable most of them are small.

The most important accession has been the instalment of the Fish Commission collections received from New Haven.

Next in order comes the contributions of Dr L. J. Chamberlain including a variety of choice specimens purchased at his expense, including an excellent local collection of Texas shells made by J. A. Suigley and bought in bloc, and many very valuable foreign unions and other specimens all of which were new to the collection.

On the whole the year has not been marked by anything extraordinary in the growth of the collections compared with previous years.

2. NAME, IN THE ORDER OF THEIR IMPORTANCE, THE ACCESSIONS OF THE YEAR WHICH DESERVE SPECIAL NOTICE, AND STATE IN EACH CASE WHETHER GIVEN, LENT, RECEIVED IN EXCHANGE OR PURCHASED?

The answer to this question will be found on the preceding page.

3. WHAT PROGRESS HAS BEEN MADE IN CARING FOR THE COL-
LECTIONS ^{IN} UNDER YOUR CUSTODY, i.e., IN THEIR PRESER-
VATION AND INSTALLATION?

The entry of additions to the collection in the Register of the Department has been carried on as usual. The principal item of work accomplished during the year has been the thorough revision of the basement storage room in which alcoholics and duplicates are kept. All the bottles have been cleaned, and, filled up when necessary with additional alcohol, the contents catalogued, each bottle given a number referring to the catalogue, which has been made on cards arranged alphabetically, so that by reference to the cards it can at once be seen whether any particular species is on hand in spirits, and, if so, the bottle can be reached in a moment, the jars being arranged in numerical order on the shelves. In cases where there was an excessive amount of material in alcohol, the excess has been removed, dried and cleaned

and placed in the series of dry duplicates, of which a similar card catalogue has been made; the specimens being placed in numbered covered boxes so that by reference to the cards any species can be reached in a few moments.

The number of alcoholic jars of mollusks, catalogued so far, is 2002.

The number of dry duplicates in boxes, catalogued, is 4174 species, or lots. All are in perfect order and in order to preserve the jars better from dust which soils them and obscures the labels, the shelves have been provided with covers of enamelled cloth.

There ~~are~~^{is} in the North Towers a considerable number of other jars of alcoholics, which it is hoped to catalogue and label in a similar manner during the coming year. When these are completed the entire collection of alcoholics and duplicate recent shells will have been put into excellent order.

Various instalments of specimens have been received from Prof. A. E. Verrill during the year. These as they were received have been checked off on the lists, the species segregated and transferred to the standard sizes of tubes, tablets, and paper trays. I have deferred incorporating them with the reserve collection until the whole series shall be received, so as to make one job of the transfer which, even then, will involve a great amount of work. These specimens do not appear on the list of accessions having been for years technically the property of the Museum, though as a matter of fact they comprise the largest accession of the year.

The series of mounted specimens illustrating the chief families of mollusks, which were prepared by Mr. Marshall and Mr. Simpson for exhibition as part of the Mu-

omit
into

seum material at the Atlanta, Ga., exposition, having been returned were placed in one of the exhibition cases in the main hall which had been previously occupied by unmounted material.

We have still a large amount of unregistered material, especially in the Jeffreys collection, which will be handled from time to time as opportunity serves, until all arrangements are made up; but in the absence of expert assistance the progress in this direction will necessarily be slow.

4. INDICATE BRIEFLY THE PRESENT CONDITION OF THE EXHIBITION SERIES AND THE STUDY SERIES, IN YOUR DEPARTMENT.

The exhibition series is in good order and condition and has been beautified by the addition of the mounted specimens exhibited at Atlanta, otherwise no marked alteration has been made in it during the current year.

The study series is in fair condition, accessible, and so arranged that any thing desired can be found directly, if in the series. A large amount of work will eventually be required upon the general collection to unify the nomenclature and make sure that each specimen is correctly identified. This sort of work must be done by a specialist in each group, and the revision will necessarily be slow and irregular in progress.

5. WHAT SPECIAL INVESTIGATIONS HAVE YOU COMMENCED, CONTINUED, OR COMPLETED, UPON THE MATERIAL UNDER YOUR CARE, DURING THE YEAR.

A report upon the collections^{of land shells} made during the progress of the International^{Mexican} Boundary Survey, by Dr. E. A. Mearns, U. S. A. has been completed and submitted for printing. It contains the largest additions made to our knowledge of the Molluscan fauna of this region in many years.

A number of additions to the fauna of the coast of Texas collected by J. D. Mitchell esq, of the vicinity of San Pedro, Cala, by Mr. + Mrs. T. S. Oldroyd, and of Puget Sound and vicinity by Messrs P. B. Randolph of Seattle and Dr. C. F. Newcombe of Victoria, Brit. Col., have been described or elucidated.

a discussion of the landshell faunas of volcanic oceanic islands, forming a report on the collections of Dr. G. Baur of the Chicago University^{at the Galapagos Ids.} and which

has been in hand for some years, has been finally completed. The type specimens upon which it is based are contained in the National Museum.

Mr. Robert John Lechmere Guppy, of Port of Spain, Trinidad, West Indies, whose collection of Antillean fossils was purchased by the Museum some years ago, ~~by~~ forwarded descriptions of some supposed new species to be printed in the Proceedings, the types being part of the National Collection. These descriptions owing to Mr. Guppy's isolation from books and named collections required some revision, which he committed to my judgment. The new forms have been ^{figured} ~~drawn~~ and a joint paper by myself & Mr. Guppy on Antillean Tertiary Fossils prepared, completed, and is now in the hands of the printer.

Work on the Neocene fauna of Florida has been continued as opportunity served, and, now that the above mentioned bits of work are out of the way, will be continued until the study is completed.

Mr. Chas. T. Simpson has continued his studies on the ~~Naiades~~ Naiades during the year. The ^{superficial} anatomy of a considerable number of species has been examined and notes and descriptions prepared. Much time has been spent in searching the literature and preparing cards of synonymy for use in a Synopsis of the Naiades.

6. WHAT EXPLORATIONS (1) BY THE MUSEUM AND (2) UNDER OTHER AUSPICES, HAVE RESULTED IN ENRICHING THE COLLECTIONS UNDER YOUR CARE?

Nothing has been received from explorations for which the Museum was directly responsible, if indeed there have been any. The following persons have been engaged in making collections with a view of working out the fauna of their respective localities and submitting all puzzling or doubtful forms to the Department for examination have in most cases donated types of new, or interesting material to the National Collection.

F. F. Crevecoeur, Onaga, Kansas.

Dr. Chas. L. Gwyn, Galveston Texas.

* Hon. J. D. Mitchell, Victoria Texas

* Dr. C. F. Newcombe, Victoria, Brit. Col.

* Mr. P. B. Randolph, Seattle Wash.

J. A. Singley, Giddings, Texas.

Young Naturalists Society, Seattle Wash.

* Mrs. J. S. Oldroyd, Los Angeles, Cal.

The asterisk denotes that the exploration carried on by the person designated was especially productive of good results.

7. WHAT MATERIAL FROM YOUR DEPARTMENT HAS BEEN TRANSMITTED TO STUDENTS AND INVESTIGATORS OUTSIDE OF THE MUSEUM DURING THE YEAR, AND IN CONNECTION WITH WHAT SPECIAL INVESTIGATION WAS THE MATERIAL NEEDED? IT SHOULD BE STATED IN EACH CASE WHETHER OR NOT THE MATERIAL HAS BEEN RETURNED TO THE MUSEUM.

Specimens of Eocene fossils of the Midway or Clayton horizon were sent to Prof. G. D. Harris of Cornell University, ^{Ithaca} New York, for study in connection with a monograph which he has recently printed on the fossils of this formation. They were used and have been duly returned by him.

In this connection it seems proper to state that during the year 140 applications were received from more than 100 individuals, for information of one sort or another, including names of shells, references to literature, etc. etc. which has in each case been promptly furnished. This involved the identification of over 3000 species and the writing of over 1000 pages of correspondence by Mr. Simpson and myself without the assistance of stenographer or type writer.

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8. GIVE THE NAMES OF ANY PERSONS WHO HAVE PROSECUTED INVESTIGATIONS IN YOUR DEPARTMENT DURING THE YEAR, AND STATE THE SPECIAL AIM OF THEIR STUDIES.

No record has been made of the individuals who have made personal application to see specimens in the study collection or have received information verbally but the number has not been small and may be estimated at about 100.

No one has been engaged in a regular course of study in the department except those officially connected with it.

9. Give a list of correspondents whose co-operation has resulted in enriching the collections under your care, and state briefly the manner and extent of such co-operation during the year.

First in enumeration of those who have generously contributed to the increase of the collection must be mentioned the Rev. Dr. L. J. Chamberlain of New York who has contributed to the purchase of books for the Dept. library and specimens (especially Naiades) for the enlargement of the Lea collection. His contributions in money, expended for these purposes under my direction, sums up \$ 450.⁰⁰ for the current year.

Others who have steadily contributed to the collection of the Department of Mollusks so as to have earned the title of regular collaborators are Messrs. J. D. Mitchell. Mr & Mrs. I. S. Oldroyd, J. F. Brevecour, Henry Hemphill, P. B. Randolph, C. F. Newcombe and Dr W. L. Abbott. The entire list follows.

Abbott, Dr. W. L. (Care King, King & Co. Bombay, India.) Oct. 25, 1895. 29977.

Two specimens Melania, Faraoney river, East Madagascar

June 4, 1896. 30743.
Shells, Kashmir India.

Aldrich, Hon. J. H. (The Grafton, Washington, D.C.) Apr. 18, 1896. 30587.

1 specimen Amphidromus, Philippine Ids.

Arnold, Hon. Delos. (Pasadena Cal.)

Sept. 5, 1895. 29807.
1 Scala lineata Say, S.E. Coast U. S.

Boepple, J. F. (Muscatine, Iowa.)

May 28, 1896. 30714.
1 curiously formed Unio pearl Iowa.

Bonnet, Andre. (Paris, France.)

July 19, 1895. 29607.
A collection of Tertiary fossil shells, Miocene
of France.

Bradley, Edgar, J. (Happy Valley Waterworks, S. Australia)

Sept 21, 1895. 29859.
10 specimens of mollusks in alcohol.

Breed, Dr Daniel, Estate of. (Through Prof. B. L. Jenney.
exter.) Nov. 23, 1895. 30046.

Seven species marine shells, 25 specimens
Indo-Pacific.

Burns, Frank. (U.S. Geol. Survey, Washington, D.C.)

Sept 7, 1895. 29677.
Six species of Unios. Northern Texas.

Burtch, Verdi. (Penn Yan, N. Y.)

Mch. 23, 1896. 30462.
Seven species of Unio. New York.

Apr 7, 1896. 30520.
Specimens Unio complanatus. Small Creek,
Yates Co., New York.

Campbell, Mrs. Julia, E. (P. O. box 823, Pasadena, Cal.)

Nov. 7, 1895. 30008.
8 species marine shells. Cal.

Feb. 25, 1896. 30370.
12 species or var's of marine shells Cal.

Apr. 2, 1896. 30495.
6 species shells. Helix conspecta var pasadenae Cal.

Chamberlain, Rev. Dr. L. J. (The Chelsea W 23rd St, New

York City, Oct. 22, 1895. 29962.
30 specimens of Unio, Latia and Bulinus,
New Zealand. Bought of Henry Suter Spring-
field Road, Christchurch, New Zealand.

Feb. 25, 1896. 30374.
22 species shells. Bay of Bengal &c. Purchased
of H. Fulton.

Mch. 11, 1896. 30427.
14 sp. Unios from coll's. by C. W. Johnson.
Arkansas & Texas.

May 11, 1896. 30648.

- Collections of shells, land, freshwater and marine comprizing 209 species, 1716 specimens from 360 localities collected by J. A. Singley Liddings, Texas.

Chaster Geo. W. (42 Talbot St. Southport, England.)

July 22, 1895. 29615.

- Six specimen of *Odostomia lactea* Jeffreys.
Off. Triggmouth. South Devon. England.

Jan. 14, 1896. 30214.

- Ten species small shells Mediterranean.

Chicago Academy of Sciences. Thro: F. C. Baker, Cur.

Dec. 19, 1895. 30132.

- Seven species Unionidae. Ill. and Indiana.

Mch. 13, 1896. 30433.

- 14 species Unionidae from vicinity of Chicago.

June 29, 1896. 30829.

- 3 species freshwater shells. Chicago, Ill.

Clapp, L. H. (Pittsburgh, Pa. 116 Water St.)

July 31, 1895. 29652.

- Six species (about 30 specimens) of land, freshwater and marine shells, recent and fossil United States.

Sept. 16, 1896. 29843.

- Two species of *Unio*, Sandy Lake Ontario.

Cleret, Mr. J. (69th St and Haverford Ave, W. Philadelphia.)

Feb. 26, 1896. 30426.

- Large valve pearl oyster. Indo-Pacific.

Coleman, Prof. A. P. (School of Practical Science Toronto, Can.)

Oct. 16, 1895. 29947.

- Fourteen species (about 60 specimens) of recent and fossil *Unios* and other freshwater shells. Niagara Falls and vicinity, New York and Canada.

Collinge, W. E. (Mason College. Birmingham, England)

Apr. 3, 1896. 30506.

- Six species of slugs in alcohol. Britain.

Cooke, Miss. J. M. (1045 Fifth St., San Diego, Cal.)

June 3, 1896. 30740.

Collection of shells mostly collected by Capt. Porter. Lower Cal. and San. Diego.

Brevecœur, F. F. (Onaga Kansas.)

Feb. 25, 1896. 30369.

8 species land and freshwater shells Kan. &c.

Mch. 11, 1896. 30438.

Specimens of Unios, 8 species Kansas.

Mch. 23, 1896. 30463.

Two species landshells Onaga, Kansas.

June 6, 1896. 30757.

Six species Unionidae, Kansas.

June 23, 1896. 30811.

Six species Unio Kansas.

Crowfoot, Jessie. (San Miguel, San Louis Obispo Co., Cal.)

July 1, 1895. 29537.

Vermetus, 1 specimen, San Miguel, San Louis Obispo Co., Cal.

Daniel, Dr. J. I. (Pine Ridge Agency, S. Dakota.)

Aug. 19, 1895. 29431.

Fossil Helix. White clay creek, S. Dakota from bank among pebbles 40 feet above the bed of stream.

Dugé's, Dr. A. (Guanajuato Mex.)

July 10, 1895. 29568.

15 species (about 20 specimens) of marine shells. Mexico, East and West coasts.

Aug. 23, 1895. 29451.

Nine species (18 specimens) of freshwater and marine shells. Mexico and Indo-Pacific region.

Dumbell, Mrs. Prentiss. (Hamlet, Mercer Co., Ill.)

Jan. 16, 1896. 30218.

Paper Nautilus and animal of Florida Purchased.

Edwards, S. M. (Argusville, N. Dak.)

July 18, 1895. 29597.

Unio rectus, 1 specimen. Argusville, N. Dak.

Fenyes, Dr. A. (Helouan, Egypt.)

June 9, 1896. 30800.

Shells five species. Egypt.

Ferris Jas. H. (Joliet, Ill.)

Feb. 21, 1896. 30359.

3 species land and freshwater shells, N. shore
Lake Superior

Frierson, Lorraine, G. (Frierson's Mills, La.)

May 13, 1896. 30653.

2 species of *Unios*. Louisiana.

Glen Island Museum. (Glen Id. N. Y. Thro. L. M. Mc

Cormie Cur. Mch 6, 1896. 30413.

Specimens of marine shells and mollusks
Berbera, G. of Aden Hodaida, Red Sea.

Godbey, Rev. S. M. (Morrisville Polk Co. Mo.)

Nov. 7, 1895. 30007.

Specimens of Naiads, *Unio spatulatus*. Mo.

Godrich, Rev. J. B. (Claremont, W. H.)

Feb. 4, 1896. 30278.

Orthalicus hibernating on a banana Mexico?

Lwyn, Dr. Chas. L. (2207 1/2 Market St., Galveston, Tex.)

Oct. 15, 1895. 29939.

Fossil shells probably a species of *Macoma*.
Quarries near, Clay, Washington Co. Texas.

Oct 25, 1895. 29946.

Nine species of *Unionidae* and *Ampullaria*
Texas and vicinity.

Hammar, J. W. (708, 13th St N.W. Washington, D.C.)

Sept. 16, 1895. 29844.

A collection of marine shells, about 20
species. Santa Rosa Id. Florida.

Hannibal Water Co. (208. Center St, Hannibal, Mo.)
Thro'. C. J. Lewis.

July 5, 1895. 29553.
Specimens of. *Pleurocera subulana* Lea. (12)
Water pipes of the Hannibal Water Co; Hannibal, Mo.

Hare, Mrs. Winifred, B. (1017 S. Eleventh St Tacoma, Wash.)
Feb. 19, 1896. 30356.
Collection of marine and landshells
Tacoma, Washington.

Harrison, Arthur, K. (Lebanon Springs, N. Y.)
Aug. 22, 1895. 29754.
Six species, (about 15 specimens) of
marine shells. New England coast.

Hay, O. P. (Field Columbian Museum, Chicago, Ill.)
July 2, 1895. 29545.
Six species of freshwater shells (six
specimens) Illinois.

Hemphill, Henry. (San Diego, Cal.)
Jan. 22, 1896. 30239.
Post-Pliocene fossils from bottom of the
channel excavated by dredgers. San
Antonio Creek, Oakland, Cal.

Jan. 22, 1896. 30241.
24 species marine mollusks. Ft Bragg
Mendocino Co. and San Diego, Cal.

Feb. 8, 1896. 30418.
10 species marine shells San Diego jetty
Feb. 13. 1896. The jetty started in Jan. 1894.
Onchidella borealis Ft Bragg and Coos Bay
Oregon. 5 sp *Cerithium* Florida.

Herrman & Co. Mrs. Theo. (630 Washington St, San Francisco,
Cal.) Nov. 20, 1895. 30061.
2 specimen *Murex nigratus* Phil. var.
Margarita Bay, Lower Cal.

Dec. 23, 1895. 30145.
4 sp. marine Pelecypods. La Paz, Mexico.

Hutchinson, Miss. N. D. (30 Morton St. Mattapan, Mass.)
Mch 27. 1896. 30449.

1 *Solen americanus*. Revere beach, Mass.

Ihering Dr. H. von. (Museo Paulista, St. Paulo, Brazil)
June 24, 1896. 30815.

15 species shells Brazil and Mexico

James, Jos. F. M. D. (Mt. Pleasant, Washington D.C.)
July 9, 1895. 29586.

1 *Limax maximus* Mt Pleasant, Washington D.C.

Hirsch, Dr Philip H. (Columbia City, Indiana.)

Dec. 20. 1895. 30138

20 specimen, 17 species of land and fresh-water shells, 1 box Unionidae 10 sp.

Wabash, Indiana.

Latchford, F. R. (19 Elgin St Ottawa, Canada.)

Mch. 16, 1896. 30443.

Unio complanatus Lam. *Limnæa ampla* Mich. *Helix cantiana* Drap. Ottawa and vicinity.

Lehman, W. V. (Fremont, Pa.)

June 19, 1896. 30810

Unios 5 species Tennessee and Florida.

Lowe, Herbert, N. (113 N. Paso Robles Ave, Pasadena, Cal.)

Mch. 14, 1896. 30441

50 species marine shells. San Pedro Bay, Cal.

Matthews, R. S. (U. S. Nat Mus.)

July 9, 1895. 29587.

Two species (six specimens) of land snails in alcohol. Berkeley Springs, West Va.

Mazyek, Wm L. (29 Broad. St. Charleston, S.C.)

Nov. 15, 1895. 30041

5 specimen *Helix* or *Bulimus ventricosus* Drap. living (introduced from Southern Europe. Near Moultrieville on

Sullivan's Island, Charleston Harbor.

Apr. 15, 1896. 30553.

10 sp. shells. Charleston, S.C.

Mitchell, J. D. (Victoria, Texas.)

July 3, 1895. 29549.

Three species of land shells Victoria Co., Texas.

July 31, 1895. 29656.

Eight Unios (1 species) Victoria Co., Texas.

Sept. 16, 1895. 29848.

Two species of Unios, 11, specimen, Victoria Co., Texas.

Jan. 13, 1896. 30204.

3 sp. *Purpura*, *Scala mitchelli* Matagorda Id., Texas.

Mch. 25, 1896. 30471.

Land and marine shells. Texas.

May 11, 1896. 30649.

3 sp. *Succinea*, 1 sp. *Cypripis* Texas.

June 23, 1896. 30809.

3 sp. *Unio*, Texas.

Moore, Miss. Kettie, A. (Box 184 Pasadena, Cal.)

May 15, 1896. 30666

1 specimen *semel rupium*, San Pedro, Cal.

Moss, W. (13 Milton Pl., Ashton, under Lyne, England.)

May 29, 1896. 30727.

13. microphotographs of molluscan radulae

Newberry, C. E. (Puget Sound Academy, Coupeville, Wash.)

June 16, 1896. 30790.

Chioræa lionina Gld. Puget Sound. pt. 6488.

Newcombe, Dr. C. F. (70 Dallas Road, Victoria, B. C.)

Mch. 14, 1896. 30440.

Three sp. marine shells Queen Charlotte Ids. B. C.

Apr. 18, 1896. 30568.

8 specimen marine shells. British Columbia.

Oldroyd, Mrs. J. S. (1961 S. Los Angeles St., Los Angeles,
Calif.) Mch. 27, 1896. 30483.
Specimens of shells, San Pedro Bay, Cal.

Palmer, Eduard. (U. S. Dept. Agric. Washington D.C.
% Mr Rose) Oct. 11, 1895. 29925.
Two species of marine shells (3 specimens)
Acapulco, Mexico.

Palmer, W^m. (U. S. Nat. Mus. Washington D.C.)
Sept. 24, 1895. 29873.
Specimens of *Nassa* embedded in clay
(Fossil) Smith Id, Va.
June 20, 1896, 30814.
Five species land and fresh water shells
Dismal Swamp, Virginia.

Randolph, P. B. (Seattle, Washington.)
July 2, 1895. 29541.
Five species of landshells, Seattle, Wash.

Aug. 15, 1895. 29420.
Four species (17 specimens) of land and
freshwater shells, ^{vicinity of} Seattle, Wash.

Oct. 21, 1895. 29966.
Specimens of *Anodon*. and *Margaritana*
Lakes Union and Washington and
Madison St. Cr.

May 13, 1896. 30654.
Specimens of *Ariolimax* in formalin
Seattle, Wash.

Apr. 22, 1896. 30580.
5 specimen slugs. Seattle, Washington.

Robinette, L. W. (Flag Pond, Va.)
May 28, 1896. 30715.
30 species freshwater shells S.W. Va.

June 10, 1896. 30772.
30 species *Unios*, Va.

Robinson, Wirt. Lt. 4th Artillery U. S. A. (% J. W.
Chinney, Newport, R.I.)
Aug. 7, 1895. 29679.

Specimens of landsnails (2 species, about 8 specimens) Venezuela.

Aug. 22, 1895. 29758.

Seven species of land shells, numerous specimens. Margarita and Curacao Islands, West Indies.

Roper, Edward, W. (Dublin, N. Hampshire)

July 31, 1895. 29668.

10 specimens of land and freshwater shells. Jamaica, West Indies.

Oct. 1, 1895. 29896.

Two species of marine and land shells four specimens. Jamaica and Florida

Singley, J. A. (Liddinge, Texas.)

Aug. 7, 1895. 29681.

Ten species of marine shells (about 30 specimens) Mostly from Guaymas, Mex.

Nov. 30, 1895. 30093

28 sp. named fossils Salveston artesian well boring Salveston, Texas.

Dec. 30, 1895. 30165.

20 sp. fossils Deep well at Salveston, Texas.

Jan. 10, 1896. 30202.

4 sp. fossils Deep well Salveston, Texas

Mar. 27, 1896. 30484.

Five species from artesian well at Salveston
Five species marines Bolivar Pt, Texas.

Soerensen, Rev. P. H. (Jakobshavn, North Greenland)

Nov. 15, 1895. 30044.

Shells in alcohol. Jakobshavn.

Stanton, J. W. (U. S. Geol. Survey. Washington, D.C.)

Aug. 6, 1895. 29677.

Three species of Unios about 6 specimens. Elm Creek, near Eagle Pass, Texas.

Sept 18, 1895. 29849.

Six species of land and freshwater shells. Southwestern Texas.

Sword, J. F. (Jonesville, Lee Co., Virginia.)

June 22, 1896. 30808.

15 species Unios, Virginia.

U. S. Dept Agriculture (Washington D.C.)

Aug. 7, 1896. 29680.

Four species of land and freshwater mollusks in alcohol. Dismal Swamp, Va.

Feb. 10, 1896. 30310.

Collection of land and freshwater shells Mexico, Idaho, 2 c. Ids. &c.

Feb. 29, 1896, 30400.

3 species marine shells collected by Dr. E. Palmer. Acapulco Mexico.

U. S. Fish Commission, (Washington, D.C.)

Dec. 23, 1895, 30147.

Landsnails. *Succ. chrysis* and *Agriolimax hyperboreus*. St. Paul, Alaska.

Dr. L. Stejneger

Jan. 20, 1896. 30232.

Shells in alcohol & small vials landshells, *Succinea*, *Limax* &c.

Jan. 23, 1896, 30244.

20 jars miscellaneous shells etc. Commander Islands.

Feb. 12, 1896. 30321.

Small collection of mollusks made by Mr Kendall. E. U. S. coast. Maine.

Signal, L. (28 Avenue Duquesne, Paris.)

Dec. 3, 1895. 30101.

12 species Neozoic fossils, Taluns Bordelaises, France.

Williamsburg Scientific Society, (161. Rockling St. Brooklyn, N. Y.)

Mar. 26, 1896. 30476.

10 specimen, 5 species, common marine shells. Florida and Indo-Pacific.

Walker, Bryant. (18 Moffat Building, Detroit, Mich.)

Dec. 20, 1895. 30139.

Unionidae, six species, Michigan.

Wright, Berlin. H. (Penn. Yan. N. Y.)

Feb. 5, 1896. 30279.

3 species Unio.

Mch. 23, 1896. 30464.

5 specimen Unio. Longwood, Fla.

Young Naturalist Society, (Seattle, Washington)

Mch. 12. 1896. 30428.

Nine species shells. Puget Sound, and
San Jose de Guatemala.

June 6, 1896. 30456.

Six species marine shells Puget Sound
etc.

June 8, 1896. 30467.

Astarte sp. Port Orchard, Washington.

Total 118 accessions.

10. GIVE A LIST OF PAPERS PUBLISHED DURING THE YEAR BY YOURSELF AND YOUR OFFICIAL ASSOCIATES AND COLLABORATORS, SO FAR AS THE SAME ARE BASED UPON MUSEUM MATERIAL. EACH NOTICE FOR THE BIBLIOGRAPHY SHOULD BE ACCOMPANIED BY A FULL AND COMPLETE CITATION (e.g., PROC. U.S. NAT. MUS., 898, AUG. 4, 1892, pp. 179-219, PLS. XIX-XXI, FIGS. 8-10), AND ALSO BY A BRIEF ABSTRACT OF THE PAPER. IF ANY PAPER IS BASED PARTLY BUT NOT ENTIRELY UPON MUSEUM MATERIAL, THAT FACT SHOULD BE INDICATED.

Bibliography of papers by Prof G.
D. Harris,

Harris, Gilbert Dennison.

- ✓ The Midway Stage, by G. D. Harris, Bull. Am. Paleontology, vol. I, no. 4, pp. 1-157, pl. 1-15, June 11, 1896.

This paper, based partly on Museum material, is a monograph of the geology and paleontology of the so called Midway stage, or lower division of the Eocene of the southern states.

It comprises an historical and stratigraphical account of the formation, followed by descriptions of all the known molluscan fossils belonging to the Midway Stage.