

**University of Oklahoma Libraries
Western History Collections**

Dr. Arthur N. Bragg Collection

Bragg, Arthur Norris (b. 1898). Papers, 1934–1968. 10.33 feet .

Zoologist. Correspondence (1946–1967) with colleagues and associates regarding Bragg's research and publications; reprints of articles (1934–1968) in his subject field, along with galley proofs and book manuscripts (n.d.) by Bragg regarding amphibians and the zoology of Oklahoma.

Note: This collection is located at the Library Service Center. Materials must be requested in advance of a research visit. Please contact the Western History Collections at 405-325-3641 or via [our website](#) for assistance.

Box 1

Second carbon copy of manuscript of book entitled *Invertebrate Zoology* by Dr. Arthur N. Bragg, each chapter of this book, 1-17, is in an individual folder.

Box 2

Early drafts of book entitled *Frogs and Toads in Oklahoma* (hereafter all works authored by Dr. Bragg will not have author's name included in the listing). Some chapters required more rewriting than others, these early versions of the manuscript are not complete. There appears to be four complete drafts from the first rough draft to the final manuscript, however some chapters required more labor and because of this there may be as many as seven versions of some chapters. There are eleven (11) folders in the box, each containing one or more chapters of the book.

Box 3

Folder:

1. Final draft of complete manuscript before final typing.
2. Carbon copy of final typescript.
3. Original and carbon copy of manuscript entitled *Amphibians of Oklahoma*; letter to Dr. Bragg from E. John, and attached manuscript of *Amphibians of Oklahoma*; rough draft of Chapter 2, *The Salamanders*, no identification as to from what work this chapter is taken.
4. Rough draft of *Amphibians of Oklahoma*; second draft and carbon copy of *Amphibians of Oklahoma*; final draft of *Amphibians of Oklahoma*.

5. Correspondence between Mr. Ottys Sanders and Dr. Bragg concerning pictures used in *Frogs and Toads of Oklahoma*; copy of letter in Dr. Carl D. Riggs from Dr. Bragg, 1967; copy of letter to Dr. A.P. Blair from Dr. Bragg, 1966; draft of letter to Dr. Riggs from Dr. Bragg and carbon of memo sent, 1966.

Box 4

Folder:

1. Typescript for *Summary of Oklahoma Salientia*, includes key to distribution of salientian fauna in Oklahoma, with glossary of terms, 1950; three tests from Dr. Bragg's Zoology 208 class, with m/c answer sheet; assignment sheet for Zoology 191; three copies of tests for Zoology 208; mimeograph original of item #4.
2.
 - a. Illustration of tadpole in late growth stage.
 - b. Illustration of cell structure, identified as #21.
 - c. Photo of Buffalo wallows, identified as Fig. 2.
 - d. Photo of Buffalo wallow and photo of same area once the Wallow had dried up, photos identified as Fig. 1 and Fig.6.
 - e. Map of U.S. showing distribution of *Bufo cognatus*.
 - f. Two illustrations numbered 4 & 5 of *Bufo cognatus* embryos.
 - g. Map of U.S. delineating areas of frog, toad and tree-toad inhabitation.
 - h. Print of Oklahoma indicating distribution of frogs and toads in the state.
 - i. Distribution map of U.S. (four maps).
 - j. Photo of location where *Hydra Americanus* was collected, identified as Fig. 1.
 - k. Illustrations not identified.(NOTE: all of the above items in Folder 2 have no indication as to where they are to be used).
3.
 - a. Carbon of article manuscript entitled *Observation on the Ecology and Natural history of Anura IX: Notes on Breeding Behavior in Oklahoma*.
 - b. Draft for article entitled *A Hypothesis to Explain the Almost Exclusive Use of Temporary Water by Breeding Spadefoot Toads*, not dated.
 - c. Draft of article entitled *Observations on the Herpetological Complex in the Vicinity of Las Vegas, New Mexico, with Special Reference to Amphibia*, 1941.
 - d. Carbon copy of manuscript entitled *Mass Movements Resulting in Aggregations of Tadpoles of the Plains Spadefoot, Some of Them in Response Light and Temperature*, not dated.
 - e. Draft of an article entitled *On the Origin and Evolution of the Spadefoots*, not dated.
 - f. Galley proofs for article which appeared in the January issue of *Science* 1942: *On the Toad and Frog Abundance After Heavy Rainfall*.
 - g. Galley proofs for article which appeared *Physical Zoology*, October 1939, *Selection of Food in Paramecium Trichium*.

- h. Reprint of article entitled *The Initial Movements of the Food Vacuole of Paramecium Trichium Stokes*, August 8, 1935.
 - i. Galley proof from article in *Science*, April 26, 1934, *Clockwise Rotation in Paramecium Trichium*.
 - j. Reprint of article entitled *Observations on the Initial Movements of the Food Vacuoles of Paramecium Multimicronucleata Powers and Mitchell With Comments in Other Species of the Genus*, September, 1936.
 - k. Galley proof for *Science* article, February 1935, *Is There a Digestive Canal In Ciliates?*
 - l. Galley proof for *Science* article, April 1939, *Use of Parentheses in Zoological Nomenclature*.
 - m. Galley proof for *Science* article, August 1937, *Protozoan Ecology*; page proof for article in *Ecology*, January 1937, *Hydra Americana in Oklahoma*.
- 4. Letter to Dr. Bragg from "Bill," 1962; explanation of figures and figures for *Amphibian Duetoplasm*, etc.
 - 5. Draft of "Keys," no source information.
 - 6. Assorted mimeographed "Keys."
 - 7. Bound volume of research notes: *Ecology of Protozoa of Crystal Lake, Norman, Oklahoma*.
 - 8. Additional portion of box #4, folder #7, item #1.
 - 9. Draft of article entitled *An Ecological Study of the Protozoa of Crystal Lake, Norman, Oklahoma*; carbon copy of original manuscript of item #1; correspondence between Dr. Bragg and *Ecology* and *The American Midland Naturalist* concerning the publication of *An Ecological Study of the Protozoa of Crystal Lake, Norman, Oklahoma*.

Box 5

Folder:

- 1. Early draft of *An Ecological Study of the Protozoa of Crystal Lake, Norman, Oklahoma*; later draft of *An Ecological Study of the Protozoa of Crystal Lake, Norman, Oklahoma*.
- 2. Two later drafts of *An Ecological Study of the Protozoa of Crystal Lake, Norman, Oklahoma*.
- 3. Another draft of *An Ecological Study of the Protozoa of Crystal Lake, Norman, Oklahoma*; an abbreviated version of *An Ecological Study of the Protozoa of Crystal Lake, Norman, Oklahoma*; correspondence between Dr. Bragg and Dr. A.S. Pearse, Dr. Lowell E. Noland and Dr. M. Hartman concerning the

publication of his manuscript, *An Ecological Study of the Protozoa of Crystal Lake, Norman, Oklahoma*, 1937.

4. 1953 report on the activities involving the Zoology Department of the University of Oklahoma.
5. Outline for proposed course in Zoological Sciences, Z.S. 305--Helminthology; outline for proposed course, Z.S. 346--Limnology; outline for proposed course, Z.S. 336--Methods and Problems in Human Biology; outline for proposed course, Z.S. 218--Ornithology; outline for proposed course, Z.S. 309--Fishes Biology; outline for proposed course, Z.S. 206--Protozoology (NOTE: dates when these courses were proposed is not given.)
6. Letter sent to Dr. Bragg requesting that he take a stand in defense of some college professors who were summarily dismissed by the state of New York during the time that Joe McCarthy was saving the country, 1952.
7. Memo and letter to Dr. Bragg from Jack Bennett, with a report on the results of Bennett's collecting activities at the Oliver Preserve, 1954-1955; reprint from the Oklahoma Academy of Science, Vol. 28, 1948, *An Analysis of an Elm-Ash Floodplain Community near Norman, Oklahoma*, by William T. Penfound.
8. Research report by W.F. Hudson concerning the length of metamorphosis period of *Rana catesbeiana*; research notes compiled by Dr. Bragg concerning the Salientia of Oklahoma, 1951.
9.
 - a. Outline for Oliver Wildlife Preserve committee meeting, October 1953.
 - b. Meeting agenda for Oliver Wildlife Preserve committee meeting, June 1961.
 - c. Correspondence between G.L. Cross and Dr. Bragg concerning the Oliver Biological Preserve, 1947.
 - d. Correspondence between Dr. Bragg and administrators of the University of Oklahoma concerning the erection of a fence around the Oliver Wildlife Preserve, March 1954-November 1955.
 - e. Original (in returned envelope) and copy of letter to Mr. Kizer from Dr. Bragg offering condolences on the death of Mr. Fred Oliver, 1961.
 - f. Material regarding the acquisition of land adjoining the Oliver Wildlife Preserve; letter concerning repair of fence around Oliver Preserve.
 - g. Letter to Dr. Bragg from Howard Clemens requesting the use of Oliver Preserve for the use in a research project involving the collection of fish.
 - h. Communications between Mr. Swank and Dr. Bragg concerning the placing of a sewer line through the Oliver Preserve, 1964.
 - i. Communications concerning the routing of Highway 9 through Oliver Wildlife Preserve, 1966.
 - j. Draft of letter to Dr. Cross from Dr. Bragg with attached memo.
 - l. Mimeographed list of city commissioners of Norman, Oklahoma, not dated.

- m. Three copies of key personnel of the Oliver Wildlife Preserve--this is a list of people to whom one could write, asking them to help preserve the wildlife preserve.
 - n. Three copies of *The Story of the Oliver Wildlife Preserve*.
 - o. Fifteen newspaper clippings from Norman, Oklahoma area concerning proposed four-lane highway planned to bisect the Oliver Wildlife Preserve, May 1966.
 - p. Correspondence between Dr. Bragg and members of OU administration, 1966.
 - r. Two carbons of a letter to the editor from Dr. Bragg, 1966.
 - s. Original draft of *The Story of Oliver Wildlife Preserve* by William T. Penfound.
 - t. Memo to Cliff Hopla from Dr. Bragg and reply, 1967.
 - u. Ten page set of research notes.
10. Letter from G.L. Cross to Dr. Bragg concerning Bragg's appointment to position of Curator of Amphibians at the Stovall Museum at the University of Oklahoma; form letter of Dr. Bragg from J. Willis Stovall, 1952; carbon of letter to Dr. A.I. Ortenburger, Curator, Division of Zoology, Stovall Museum, from M. Dale Avery, October 1949.
 11. Set of "ditto" master for some tadpole cards.
 12. First, second and third drafts of paper entitled *Mass Movements Resulting in Aggregations of Tadpoles of the Plains Spadefoot, Some of Them in Response to Light and Temperature*.
 13. Copy of letter to the American Institute of Biological Sciences from Dr. Bragg, with attached copy of his manuscript entitled *Variations in the Mouthparts of Tadpoles*, 1964; three letters to Dr. Bragg from the American Institute of Biological Sciences, 1964.
 14.
 - a. Outline for History of Oklahoma Academy of Sciences.
 - b. Open letter to the Oklahoma Academy of Sciences from H.H. Lane, 1959, included list of past presidents of the OAS up to 1959.
 - c. Correspondence concerning the gathering for Dr. Bragg's History of Oklahoma Academy of Sciences.
 - d. Returned letter for Dr. A.N. Murray from Dr. Bragg, 1960.
 - e. Correspondence between Dr. Bragg and members of the Oklahoma Academy of Sciences, 1960.
 - f. Ditto original of letter to members of OAS from Dr. Bragg, 1960.
 - g. Program of 1960 Oklahoma Junior Academy of Science.
 - h. Programs for the annual meetings of OAS, 1930, 1931, 1932, 1933, 1935, & 1940.
 - i. Program for the 1960 annual spring meeting of OAS.
 - 15.

- a. Letter to Dr. Bragg from Donald W. Tinkle, Editor, *Southwestern Naturalist*, 1960.
 - b. Draft of Bragg's letter to Tinkle, 1959.
 - c. Letter to Bragg from Tinkle, 1959.
 - d. Two drafts of *Zoological Field Notes* by Otis King, this article was published by Dr. Bragg while he was acting proxy for King.
 - e. Correspondence surrounding the publication of Otis King's observation of a male possum, by *Journal of Mammalogy*, 1960.
16. Rough draft of article entitled *Feeding of the Houston Toad*, 1959.
17. Original and carbon copy of manuscript entitled *Protozoa of Crystal Lake* (NOTE: this is an abridged and updated version of the manuscript listed earlier in this collection listing).
18. Rough draft of paper, title illegible; unpublished manuscript entitled *The Importance of Voice in Social Integration*, not dated; rough draft and final manuscript entitled *An Hypothesis to Explain the Almost Exclusive Use of Temporary Water by Breeding Spadefoots*, 1963.
- 19.
- a. Letter to Bragg from AIBS and attached mimeographed copy of Bragg's article, *Variation in Mouthparts of Tadpoles*.
 - b. Letter to Bragg from BSCS (Biological Curriculum Study) and attached information concerning the BSCS Gifted Student Project and a copy of Bragg's suggested project.
 - c. Cover letter to Bragg from Donald W. Tinkle concerning manuscripts submitted to the *Southwestern Naturalist*, with attached edited manuscript, 1962.
 - d. Cover letter from *Herpetologica* to Bragg with edited manuscript, "Lens Action by Jelly on Frog's Eggs," 1962.
 - e. Cover letter from *Herpetologica* and returned manuscript, "Lens Action by Jelly on Frog's Eggs," 1963.
 - f. Rough draft and corrected version of "Lens Action by Jelly on Frog's Eggs."

Box 6

Folder:

- 1. Correspondence between Dr. Bragg and *Oklahoma Teacher* concerning publication of "Salute to a Teacher," manuscript attached, 1959-1960; rough draft of "Salute to a Teacher"
- 2. Rough draft (handwritten) of "A Study of Labial Teeth Rows in Tadpoles of Couch's Spadefoot": second draft of previous item; letter to Bragg from "Ed," 1962; carbon of letter to Samuel Hayes from Bragg, 1962; letter to Bragg from Samuel Hayes, 1962; carbon of finished manuscript, "A Study of Labial Teeth Rows in Tadpoles of Couch's Spadefoot"

3. Rough draft of article entitled *Further Study of Predation and Cannibalism in Spadefoot Tadpoles*; carbon of letter to Dr. Wilmer Tanner from Dr. Bragg concerning the publication of *Further Study of Predation and Cannibalism in Spadefoot Tadpoles*, 1962; letter to Bragg from Tanner, 1962; letter to Bragg from Tanner, 1963; carbon of letter to Tanner from Bragg, 1963; carbon of original manuscript, *Further Study of Predation and Cannibalism in Spadefoot Tadpoles*
4. Carbon of original, untitled manuscript, "Strecker--Naturalist and Man"; edited original of manuscript mentioned above; correspondence between Bragg and A. Richards concerning publication of manuscript, 1961
5.
 - a. Rough draft of manuscript, *Predator-Prey Relationship in Two Species of Spadefoot Tadpoles with Notes on Some Other Features of Their Behavior*.
 - b. Second, typed draft of last item.
 - c. Letter to Bragg from Ed Kessel, concerning publication of *Predator-Prey Relationship in Two Species of Spadefoot Tadpoles with Notes on Some Other Features of Their Behavior*.
 - d. Letter to Bragg from E. Kessel, 1961.
 - e. Correspondence between faculty research and Bragg concerning the engraving of some figures for *Predator-Prey Relationship in Two Species of Spadefoot Tadpoles with Notes on Some Other Features of Their Behavior*.
 - f. Carbon of letter from Bragg to Kessel, 1961.
 - g. Reprint of engravings; two of original illustrations to be engraved.
 - h. Correspondence between *Wasmann Journal of Biology* and Dr. Bragg concerning publication of *Predator-Prey Relationship in Two Species of Spadefoot Tadpoles with Notes on Some Other Features of Their Behavior*, 1962.
 - i. Carbon of final draft of *Predator-Prey Relationship in Two Species of Spadefoot Tadpoles with Notes on Some Other Features of Their Behavior* manuscript.
6. Four cover letters from *Southwestern Naturalist* concerning publication of "Saprolegnia of Tadpoles Again in Oklahoma," 1961-1962; typed early version of manuscript, "Saprolegnia of Tadpoles Again in Oklahoma"; carbon and final version of manuscript mentioned above
7. Three pieces of correspondence between Bragg and G.A. Moore concerning publication of manuscript, *History of Oklahoma Academy of Science*, 1962; carbon copy of manuscript; letter to Bragg from A.D. Buck, 1962; original draft of manuscript, *History of Oklahoma Academy of Science*, with numerous corrections
8.
 - a. Memo from Faculty Research (O.U.) to Bragg, with attached carbon copy of manuscript, *Predation on Arthropods by Spadefoot Tadpoles*, 1962.

- b. Three pieces of correspondence between Wilmer W. Tanner (Editor, *Herpetologica*) and Bragg concerning publication of *The Mouthparts of Tadpoles and Hunter's Spadefoot*, 1962.
 - c. Abstract of article *The Mouthparts of Tadpoles and Hunter's Spadefoot*.
 - d. Carbon copy of *The Mouthparts of Tadpoles and Hunter's Spadefoot*.
 - e. Three carbon copies of article, *The Mouthparts of Tadpoles and Hunter's Spadefoot*.
 - f. Carbon of rough draft of article manuscript, *The Mouthparts of Tadpoles and Hunter's Spadefoot*.
9. Manuscript entitled *Aggregational and Associated Behavior in Tadpoles of the Plains Spadefoot*; drawings of area on graphing paper; two research reports from Otis King to Bragg, 1959; onionskin copy of manuscript, *Aggregational and Associated Behavior in Tadpoles of the Plains Spadefoot*; three early drafts of *Aggregational and Associated Behavior in Tadpoles of the Plains Spadefoot*.
 10. Rough draft of article entitled *The Behavior and Comparative Developmental Rates in Nature of Tadpoles of a Spadefoot, a Toad and a Frog*; carbon of manuscript submitted for publication, with postcard from W. Tanner, Editor, *Herpetologica*; three pieces of correspondence between Bragg and Tanner concerning publication of *The Behavior and Comparative Developmental Rates in Nature of Tadpoles of a Spadefoot*, 1961; cover letter to Bragg from Tanner and attached original manuscript.
 11. First draft of manuscript entitled *On the Origin and Evolution of Spadefoots*; typed draft of *On the Origin and Evolution of Spadefoots*; carbon of final draft of *On the Origin and Evolution of Spadefoots*; memo from *The British Journal of Animal Behavior* to Bragg and carbon of letter sent to them from Bragg, 1961; correspondence between Bragg and David E. Davis, Editor, *Animal Behavior*, concerning publication of *On the Origin and Evolution of Spadefoots*, 1960-1961
 12. Copy of letter sent to *The Wasmann Journal of Biology*, by Dr. Bragg, questioning the possibility of publication of his manuscript *An Ecological Study of the Protozoa of Crystal Lake, Norman, Oklahoma*, 1959; drawing of Crystal Lake, with key to stations used by Bragg; envelope containing photographs and drawing of Crystal Lake; copy of revised manuscript.
 13. Rough draft of manuscripts *An Unexplained Aggregation of Carabid Beetles*"; typed draft, with many corrections, of manuscript mentioned above; copy of letter sent with manuscript to *Southwestern Naturalist*, with reply from editor and edited manuscript, 1963; copy of resubmitted manuscript.
 14. Membership lists for the Oklahoma Academy of Science, 1961; list of meetings held, pres. of OAS at that meeting, etc; rough draft of *The History of Oklahoma Academy of Science*; typed version of rough draft; final version of manuscript with carbon copy.

Box 7

Folder:

1. Book-length manuscript entitled *A Naturalist of the Transition--John K. Strecker, Jr.*, included with this manuscript is a ser of mounted photographs dealing with studies and correspondence of Strecker
2. Book-length manuscript and appendix of numerous charts and graphs, a wide range of topics are discussed and conclusions referred to the included research charts, possible that this folder contains more than one manuscript

Box 8

Folder:

1. Final manuscript, *A Naturalist of the Transition--John K. Strecker, Jr.*
2. Carbon copy of manuscript in folder #1 (NOTE: both of the above folders contain deleted pages form the manuscript.
3. Three pieces of correspondence between Bragg and C.C. Gragg, concerning Herman Strecker, uncle of John K. Strecker, and his butterfly collection, 1951; a brief biography of Ferdinand Heinrich Herman Strecker, 1948; copy of article entitled *Ferdinand Heinrich Herman Strecker*, 1902; excerpt from *Weekly Philatelic Gossip*, entitled *Awarded-Honorary MS Degree*, John K. Strecker is recognized as one of foremost naturalists in America; untitled poem by J.K. Strecker.
4. Copies of one-hundred and five letters to John K. Strecker, this set of correspondence was compiled by Dr. Bragg while he was researching the life of J.K. Strecker, 1908-1930; five short articles, not indication of authorship, but location in records leads us to assume author is J.K. Strecker.
5. One-hundred and thirty-nine pieces of correspondence between Dr. Bragg and numerous people who had some knowledge of his work and had corresponded with him, included in this correspondence are some letters between Dr. Bragg and the American Philosophical Society concerning Bragg's receipt of a Penrose Grant for use in gathering research for his biography of J.K. Strecker, 1949-1958; copy of Baylor University bulletin, not dated.

Box 9

Folder:

1. Sixty-one pieces of correspondence between Bragg and numerous people contacted by him in his research of the life of J.K. Strecker, also included is the correspondence surrounding the publication of Strecker's biography, 1949-1958.

2. One-hundred and thirty-five pieces of correspondence between Bragg and various people who either knew Strecker or who would be able to publish the final manuscript, 1948-1958.
3. Rough draft entitled *The Ortenburger Award* by Harley P. Brown; original manuscript of *The Ortenburger Award*; two carbon copies of original manuscript.
4. Original manuscript, *Taxonomic and Physiological Factors in the Embryonic Development of Certain Toads*; original and carbon copy of manuscript entitled *Data on Size Range in Adults of Bufo s. Woodhousii Girard*; correspondence surrounding the publication of *A New Typhlotriton from Arkansas* by Charles C. Smith, edited by A. Bragg, 1967-1968; copy of original manuscript for *A New Typhlotriton from Arkansas*.
5. Handwritten set of notes entitled *Breeding Habits*, written by the University of Michigan; typed copy of list entitled *Species of Arthropods Eaten by Toads*; illustration of McClain County, Oklahoma indicating vegetation distribution; illustration labeled as test fig. 1, depicting growth stages and time elapsed during growth stages of tadpoles, no test reference; reprint of above illustration; map of USA divided into counties, bounded area; series of illustrations no. 1-19, indicating cellular structure; carbon copy of manuscript *Salientian Collections in Oklahoma, 1948*
6. Mimeograph handout concerning classification systems from Aristotle to Conklin (1927) to Hyman (1940); mimeograph handout outlining OU course ZS 22, Invertebrate Zoology; carbon of list of slides for ZS 308
7. Carbon of manuscript, *A Metamorphic Aggregation in Tadpoles of Bufo*; carbon of manuscript, *Decline in Toad Population in Central Oklahoma*; carbon of manuscript, *Observations on the Ecology and Natural History of Anura XV--The Hylids and Microhylids of Oklahoma*; reprint from *Oklahoma Academy of Science*, Vol. 28, 1948, *The Canebrake Rattler in Oklahoma*
8. Set of research notes concerning variations in the labia and papillae of *Scaphiopus Holbrookii Hurteri*, compiled by Rex Matthews and Ray Kinsinger, not dated; one illustration of ?
9. Original manuscript, *Behavior, Food and Feeding Reactions in Tadpoles of the Savannah Spadefoot*; carbon copy of manuscript, *Salientian Range Extensions in Oklahoma and a New State Record*; carbon copy of final manuscript, *Further Observations on Spadefoot Toads*, attached is a letter concerning submission of this manuscript to *Ecology* for publication, this manuscript is a revised version of the first one listed in this folder

10. Four pieces of correspondence between Bragg and Dr. W.C. Allee concerning a manuscript entitled *Importance of Voice in Social Integration*, attached in manuscript mentioned above, 1949
11.
 - a. Carbon of short manuscript, *Further Notes on Scaphiopus Holbrooki Hurteri in Pool P₁*.
 - b. Abbreviation of manuscript cited above.
 - c. Cover letter concerning submission of manuscript entitled *The Formation of Feeding Schools in Tadpoles of Spadefoots* to the *Wasmann Journal of Biology*, manuscript attached, 1967.
 - d. Reprint from *Herpetologica*, 1958, two notes published, *On Metamorphic and Post-Metamorphic Aggregation in Spadefoots* and *The Eggs of the Dwarf American Toad*.
 - e. Two carbon copies of a poem entitled "Toad."
 - f. Galley proofs from *General Biology* for article entitled *Key to Spadefoot Toads in Oklahoma*.
 - g. Reprint from *Turtox News*, Vol. 27, No. 12, December 1949, *Field Preservation of Amphibian Eggs and Larvae*.
 - h. Reprint from *Turtox News*, Vol. 29, No. 3, March 1951, *An Apparatus for Collecting Small Aquatic Organisms*.
 - i. Reprint from *Herpetologica*, 1958, *Taxonomic Status of the Gray Tree Frog in Oklahoma*.
 - j. Contents brochure for *Tulane Studies in Zoology*, Vol. 5, 1957.
 - k. Illustrations of Crystal Lake, Norman, Oklahoma.
 - l. Map of Oklahoma, divided into counties with notations by Bragg.
 - m. Obituary of Dr. Perrin, from the campus newspaper of Boston University.
12. Handwritten outline for research paper concerning filter-feeding of *Scaphiopus* tadpoles, not dated; set of diagrams depicting the location of the internal organs of the tadpole, not dated; handwritten draft of research paper, title indiscernible, not dated; handwritten set of notes, first page missing, not dated; two letters to Bragg from June Funkhorser, 1963.
13. List of all collection numbers used for all filed work for the Biological Survey conducted by Bragg and associates, not dated; list of field collection numbers from 1-483; carbon of filed collection number list.
14. Nineteen pieces of correspondence between Ronald A. Brandon and Dr. Charles C. Smith concerning a new species of *Typhlotriton*, 1960-1965; two pieces of correspondence between Bragg and Smith, 1965, attached to letters is an abstract for manuscript, *A Re-Evaluation of the Status of Salamander Typhlotriton Nereus Bishop* and the original manuscript, carbon copy.
15. Handwritten summary of locations noted in notes of Dr. C.C. Smith; sixteen letters to Bragg from C.C. Smith, 1965-1966; Xerox copies of two pieces of

- correspondence between C. Smith and Ronald Brandon, 1960; three sets of research notes sent to Bragg from Dr. Smith and each with cover letter; copy of letter to Dr. James L. Dale from Bragg, 1967.
16. This folder contains correspondence between Dr. Bragg and numerous people acquainted with Dr. Charles C. Smith, including: Professor R.A. Brandon, 1966-1967; Dean Robert Brown, 1967; Hugh T. Campbell, 1967; Dr. Ronald Dickerson, 1967; Mrs. James T. Frazier, 1967; Dr. Glen Haddock, 1967; Mrs. Robert A. Hess, 1967; H.C. Jeffrey, Jr., 1967; Dr. Paul McCain, President, 1967; Mrs. Marco Oxner, et al, 1967; Dr. Hobart M. Smith, 1967; Mr. James M. Smith, 1967; Dr. Phillip W. Smith, 1967; Dr. Joel F. Spragins, 1967; Reverend Wayne E. James, 1967; Mr. Frank Wise, 1967; manuscript of *Notes of Typhlotriton Larvae in Arkansas and Missouri* by Charles C. Smith; manuscript of *The Problem of Hybridization of the Red Cave Salamander, Eurycea Lucifuga (Raf) and the Long-Tailed Salamander, Eurycea Longicauda Melanoplura (Green)* by C.C. Smith.
 17. Five maps of Kansas, subdivided into counties; one map of United States divided into states and counties; set of research notes on Scaphiopus h. Hurteri.
 18. Twenty illustrations depicting growth stages of Protozoa; eight pages of illustrations concerning growth stages of Protozoa.

Box 10

Folder:

1. Research notes on Protozoa of Crystal Lake, Vol. I-II, bound.
2. Miscellaneous research notes, bound.
3. Research notes on Protozoan Nutrition, Vol. I-IV, bound.
4. This folder contains numerous abstracts of articles written by Dr. Bragg prior to 1948. The abstracts will be listed as they appear in Bragg's assembly:
 - a. *Additional Instances of Social Aggregation in Tadpoles*, 1948.
 - b. *Observations upon Amphibian Duetoplasm*, 1939.
 - c. *Observations on the Ecology and Natural History of Anura VI*, 1940.
 - d. *Observations on the Natural History of Bufo cognatus*, 1939.
 - e. *Observations on the Ecology and Natural History of Anura I*, 1939.
 - f. *Some Cytological Phenomena in Early Embryos of Bufo cognatus*, 1939.
 - g. *A New Record of Hydra Littoralis Hyman*, 1935.
 - h. *Tadpoles of Scaphiopus bombifrons and Scaphiopus hammondii*, 1941.
 - i. *Observations on the Ecology and Natural History of Anura II*, 1940.
 - j. *Observations on the Ecology and Natural History of Anura III*, 1940.
 - l. *Observations on the Ecology and Natural History of Anura V*, 1941.
 - m. *Bufo compatilis Weigmann, A New Toad for Oklahoma*, 1940.

- n. *Dwarf Bufo americanus*, 1940.
- o. *Observations of the Ecology and Natural History of Anura XIII*, 1944.
- p. *Egg Laying in Leopard Frogs*, 1944.
- q. *Life History of Pseudacris clarkii*, 1943.
- r. *Observations of the Ecology and Natural History of Anura XI*, 1942.
- s. *A Corrected List of Amphibia Known in Central Oklahoma*, 1942.
- t. *A Key to the Frogs of the Genus Rana in Oklahoma*, 1942.
- u. *Observations on the Ecology and Natural History Anura IX*, 1942.
- v. *On the Economic Value of Oklahoma Toads*, 1943.
- w. *Observations on the Ecology and Natural History of Anura XIII*, 1943.
- x. *Common Names for Frogs and Toads in Oklahoma*, 1943.
- y. *Observations on the Ecology and Natural History of Anura X*, 1942.
- z. *Observations on the Ecology and Natural History of Anura IV*, 1943.
- aa. *Aggregation with Cannibalism in Tadpoles of Scaphiopus bombifrons*, 1946.
- bb. *Puzzles in the Life History of Scaphiopus Hurteri*, 1945.
- cc. *The Canebrake Rattler in Oklahoma*, 1948.
- dd. *An Observation Showing the Biological Necessity for Size Selection of Food Objects by Young Toads*, 1948.
- ee. *Observations of Hyla versicolor in Oklahoma*, 1948.
- ff. *Observations on the Life History of Pseudacris triseriata*, not dated.
- gg. *Size Range in Adults of the Toad, Bufo cognatus*, 1950.
- hh. *A New Subspecies of the Bufo woodhousii Group of Toads*, 1951.
- ii. *Amphibians of McCurtain County, Oklahoma*, 1952.
- jj. *The Status of Leopard Frogs in Oklahoma*, 1949.
- kk. *Extensions of Known Salientian Ranges in Oklahoma*, 1946.
- ll. *Some New Country Records of Salientia and a Correction in the List from Oklahoma*, 1946.
- mm. *Aggregational Phenomena in Scaphiopus Hurteri Tadpoles*, 1946.
- nn. *Bufo terrestris charlesmithi, a New Subspecies in Oklahoma*, 1952.
- oo. *Bufo terrestris charlesmithi, a New Subspecies in Oklahoma*, 1954.
- pp. *A Second Season with Rana areolata in Oklahoma*, 1955.
- qq. *A Study of Rana Areolata in Oklahoma*, 1953.
- rr. *Variations in Colors and Color Patterns in Tadpoles in Oklahoma*, 1957.
- ss. Allotment of funds for research, 1948.
- tt. Series of studies in abstract form concerning the aspects of the lives of Amphibia in Oklahoma, not dated.
- uu. *William Harvey: His Life and Times, His Discoveries, His Methods*, by Louis Chauvois.

Box 11

Folder:

1. Handwritten manuscript "Detailed Instructions for Figures: *Invertebrate Zoology*."

2. Twenty-five envelopes containing the original illustrations designed for the textbook: *Invertebrate Zoology*.
3. Complete set of illustration for the final manuscript of *Invertebrate Zoology*.

Box 12

Folder:

1. Final copy of manuscript, *Invertebrate Zoology*, pp. 1-306.
2. Final copy of manuscript, *Invertebrate Zoology*, pp. 307-704.

Box 13

Folder:

1. Carbon of final copy of manuscript, *Invertebrate Zoology*, pp. 1-399.
2. Carbon of instructions for the printer.
3. Carbon of final copy of manuscript, *Invertebrate Zoology*, pp. 400-704.

Box 14

Folder:

1. Bound volume of research notes.
2. Set of ten photographs entitled "Amphibian Habitats and Breeding Sites."
3. Five handwritten outlines for a series of radio broadcasts sponsored by WNAD, 1955-1956.
4. Typed carbon of original of outlines defined F.3/item no. 1.
5. Bound volume of outlines for WNAD radio broadcasts, not dated.
6.
 - a. Carbon copy of manuscript, "Values in Philately," with copy of a letter to Mr. Harry Weiss, from Bragg, and Weiss' reply, 1954.
 - b. Handwritten manuscript, "Chapter1-The Ecological Emphasis."
 - c. Handwritten manuscript, "Theory of the Development of Breeding Patterns in Some North American Salientia."
 - d. Untitled, handwritten manuscript.
 - e. Early draft of manuscript, "Training or Education?"
 - f. Carbon copy of draft of short manuscript "The Christian Spirit of Stamps," and attached cover letter to Bragg from Ina Lee Staggs.
 - g. Carbon copy of manuscript, "The Status of the Pickerel Frog."

- h. Handwritten draft of article entitled "The Principles of Competition."
7. Carbon of manuscript concerning some research carried out by Bragg, untitled.
8. Original manuscript, "Adaptive Responses of Insects with Special Reference to Survival of Species during Evolution."
9. Bound volume of research notes, "Notes on Embryology and Biology of *Bufo cognatus*."
10. Original manuscript, *Publications of the University of Oklahoma Biological Survey, Volume VI*, not dated.

Box 15

Folder:

1. First rough draft for the book, *Gnomes in the Night*.
2. First typed draft, with many corrections by the author, of *Gnomes in the Night*.
3. Second typed draft, with much revision and page deletion, of *Gnomes in the Night*.
4. Carbon of second typed draft, *Gnomes in the Night*.
5. Carbon of third typed draft, with some minor revisions, of *Gnomes in the Night*.
6. Carbon of final manuscript, *Gnomes in the Night*.
7.
 - a. List titles "Food of Anura."
 - b. Carbon copy of table of contents for *Gnomes in the Night*, list of illustrations for *Gnomes* and legends for figures.
 - c. Two letters from Bragg from the University of Pennsylvania Press concerning proofs for book, 1965.
 - d. Letter to Bragg from Dr. Hobart M. Smith, 1965.
 - e. Carbon of dedication and a criticism of *Gnomes in the Night*.
8. Statistical data compiled by Bragg on the food of Anura (stomach contents) and other information.
9. List of frogs and toads collected by A.N. Bragg and associates, including specimens observed from Oklahoma and adjacent regions in other collections; list of frogs and toads collected on specified trips recorded in field notes of A.N. Bragg.

10. Notes from course in General Physiology, Johns Hopkins University, 1924-1925; course taught by Dr. Mast.

Box 16

Folder:

1. Field book #1, part 1--research notes in typed form, 1935-1936.
2. Field book #1, part 2--research notes in typed form, 1936-1939.
3. Field book #1, part 3--research notes in typed form, 1939.
4. Field book #2--research notes in typed form, 1939-1940.
5. Field book #3--research notes in typed form, 1940.
6. Field book #4--research notes in typed form, 1940-1941.
7. Research notes concerning "Oliver's Woods," 1946-1947.
8. Data on growth rates of *Bufo cognatus*, 1938-1941.
9. Research notes on growth and maturing rates of *Bufo cognatus*.
10. Research notes on growth of embryos of *Bufo cognatus*.
11. Summation of notes concerning *Scaphiopus h. Hurteri* compiled between 1939 and 1956.
12. Research notes on growth cycles (1-17) of *Bufo cognatus*.
13. Research notes concerning measurements of *Salientia*.
14. Data on *Salientian* calls.
15. Known breeding dates for *Salientia* in Oklahoma.
16. Bound volume of distribution maps for the genus *Bufo*, including Oklahoma, Texas, Kansas, and Arkansas.
17. Notes on Spermatogenesis of three American species of toads.
18. Summary of research notes concerning *Scaphiopus h. Hurteri*, 1957.

Box 17

Folder:

1. Certificate indicating the designation of the Ortenburger Award to Arthur Nathan Bragg, 1964; carbon copy of manuscript, "History of the Oklahoma Academy of Science."
2. Research notes including many computations and graphs, however there is not indication of the subject of the research.
3.
 - a. Faculty and assistant schedule for first semester, 1953-1954.
 - b. Set of instructions for participants in TV talk show, and letter to Bragg, 1953.
 - c. 1953-1954 schedule for OU Libraries.
 - d. Topics for series of radio programs featuring OU Zoology Dept., not dated.
 - e. Copy of quiz #1 for Zoology 1, 1961.
4.
 - a. *A Reader's Digest* reprint "Opportunity for the Brilliant Science Student" by Albert Q. Maisel, 1958.
 - b. "Notes on Breeding Habits of a Mosquito," handwritten notes from a seminar report of Miss E. Harris, December 1949.
 - c. Class handout concerning field project, not dated.
 - d. Class notes.
 - e. Ward's Service Bulletin No. 5: "The Use of Latex and Vinyl Acetate in the Injection of the Circulatory System."
 - f. Invoice to Bragg from the Oklahoma Academy of Science for reprints, 1952.
 - g. Report to Bragg from the Department of Chemistry concerning some mud from the bottom of an unspecified pool, not dated.
 - h. Miscellaneous notes to Bragg.
5. Sixteen letters (copies) from Bragg to Roger Conant, 1955-1956; twenty-seven letters and two postcards to Bragg from Conant, 1955-1956.
6. Correspondence between Glenn C. Couch and Dr. Bragg. Thirty-five letters and memos to Bragg from Couch and copy of one letter from Couch to Bragg, 1946-1952.
7. Forty-nine letters and memos from George L. Cross and his assistants to Bragg. Primary emphasis of correspondence is salary for Bragg, 1946-1962; one letter to G.L. Cross concerning the Oliver Wildlife Preserve, from Bragg, 1960.
8.
 - a. Letter to Bragg from John A. Cameron, 1956.
 - b. Letter to Bragg from Jack B. Bresler, 1954.
 - c. Three copies of letters sent to Harold Dundee from Bragg, 1954.
 - d. Fifteen letters and one postcard from Bragg to Dundee, 1946-1954.
9.
 - a. Letter to Bragg from Arthur E. Dunham, University of New Mexico, 1968.

- b. Letter to Bragg from Monte M. Dodson, 1965.
 - c. Letter to Judge Dale from Bragg, and one letter from Dale to Bragg.
 - d. Three letters to Bragg from K.J. Davis, 1966-1967.
 - e. Correspondence between Bragg and Mart F. Davis concerning reviews, 1967.
 - f. Letter to Bragg from James L. Dobie, Tulane University, 1960.
 - g. Letter to Arthur E. Doerr from Bragg, 1960.
 - h. Letter to Bragg from William e. Duellman, 1952.
 - i. Carbon of letter to A.E. Dammann from Bragg, 1953.
 - j. Four letters to Bragg from W.B. Davis, Texas A&M College, 1950-1952.
 - l. Correspondence between Dr. Bragg and Dr. John F. Dunkel, 1952.
 - m. Letter to Bragg from John W. Dunn, Director of WNAD, 1948.
 - n. Thank you note from Bragg to Charles E. Decker, 1952.
 - o. Letter to Bragg from James A. Dombrowski, 1949.
 - p. Two pieces of correspondence between Bragg and Hugh H. Darby, 1937.
 - q. Letter to Dr. Fred E. D'Amour, University of Denver, 1956.
 - r. Two pieces of correspondence between Bragg and W.B. Davis, 1956.
 - s. Letter to Dr. E.J. Dornfeld from Bragg, 1956.
 - t. Letter to Bragg from Carl Riggs, 1956.
 - u. Letter to Bragg from Homer L. Dodge, 1937.
 - v. Correspondence between James A. Dombrowski and Bragg, 1957.
 - w. Correspondence between Bragg and Daniel D. Drew, 1958.
 - x. Letter to Mr. S. George Dirghalli from Bragg, 1959.
 - y. Correspondence between Bragg and Edward S. Deevey, Jr., 1953.
 - z. Letter to Bragg to S.G. Dirghalli, 1959.
 - aa. Eight requests for reprints of Bragg's articles.
 - bb. Letter from Bragg to Clifford J. Dennis, 1960.
 - cc. Letter to the Editor, *Daily Oklahoman*, from Bragg, 1959.
- 10.
- a. Memo to Bragg from John G. Eriksen, with attachment, 1958.
 - b. Letter to Bragg from Bernadine B. Engstrom, 1961.
 - c. Copy of newsletter from the Ecological Society of America, 1959.
 - d. Memorandum: "On Progress Establishing and Ethical Fellowship," 1949.
 - e. Form letter to Bragg from L.T. Evans, 1953.
 - f. Letter to Bragg from the Emergency Committee of Atomic Scientists, 1948.
 - g. Letter from L.P. Eisenbart, from Bragg, 1954.
 - h. Correspondence between Bragg and David J. Edwards, 1958.
 - i. Form letter to Bragg from the Ecological Society of America, 1958.
 - j. Correspondence between Bragg and E.O. Wilson, 1956.
 - k. Correspondence between Dr. H.L. Eastlick and Bragg, 1956.
 - l. Eight letters to Bragg from Dr. Hans Elias and five response letters, 1948-1955.
 - m. Correspondence between Bragg and Neal Evans, 1946 & 1950.
 - n. Letter to Bragg from Department of State concerning a Fulbright Grant, 1954.
 - o. Correspondence between Bragg and D. Emery, University of Omaha, 1955.
 - p. Five pieces of miscellaneous requests for reprints and a few addresses.
- 11.
- a. Correspondence between Bragg and Don C. Forester, 1967-1968.

- b. Correspondence between Bragg and Martin Fuller, 1958.
 - c. Correspondence between Bragg and Ion E. Fuhn, 1955-1960.
 - d. Letter to Bragg from Anne Funkhouser, 1964.
 - e. Letter from Bragg to Mrs. W.C. Fawcett, concerning a former employee, 1968.
 - f. Letter from Bragg to Faculty Research Committee, 1961.
 - g. Correspondence between Bragg and Clive French, 1954.
 - h. Carbon of letter to Dr. R.O. Freeland from Bragg, 1946.
 - i. Carbon of letter to Dr. John A. Freeman from Bragg, 1950.
 - j. Carbon of letter to Mr. J.R. Free from Bragg, 1956.
 - k. Correspondence between Bragg and Mr. J.F.D. Frazer, 1956.
 - l. Letter to Bragg from Johns Hopkins Fund, 1962.
 - m. Carbon of letter from Bragg to Mr. A.M. Fox, III, 1959.
 - n. Reprint request from M.F. Fouquette, Jr. to Bragg, 1952.
 - o. Letter to Bragg from Edward T. Foote, S.J., 1949.
 - p. Letter to Bragg from Chad Fogle, 1959.
 - q. Letter to Bragg from Alvin Flurry, 1950.
 - r. Letter from Bragg to Dean of Jefferson Medical College of Philadelphia, 1948.
 - s. Letter to Bragg from John Fiore.
 - t. Letter to Bragg from J. Homer Ferguson, 1962.
 - u. Copy of Faculty Newsletter, April 1960.
 - v. Copy of *Faculty Club News*, May 1962.
 - w. Copy of final exam schedule for OU, first semester, 1960-1961.
 - x. Correspondence between Bragg and Reeves Soundcraft Corp., 1961.
 - y. Correspondence between Bragg and Academic Press Inc, 1961.
 - z. Copy of letter to Mr. Jack Frazier from Bragg, 1967.
 - aa. Reprint requests.
12. Seven letters to Bragg from Robert C. Stebbins, University of California at Berkeley, concerning specimen exchange, 1948 & 1954-1955.
13. Six letters from Karl A. Stiles to Bragg and six letters to Stiles from Bragg concerning the editing of text entitled *College Zoology* by Hegner, 1947-1957.
14. a. Letter to University of Texas from Bragg, 1966.
- b. Letter to Bragg from Tommy Thorne, 1962.
- c. Letter to Lloyd Tevis, Jr. from Bragg, 1968.
- d. Completed travel voucher.
- e. Letter concerning the values of studying toads, not dated.
- f. Letter from Charles B. Tucker to Bragg, 1955.
- g. Letter to Bragg from "Tillie," 1960.
- h. Correspondence between Bragg and Dr. Wayman J. Thompson, 1954.
- i. Letter to Bragg from John R. Tester, 1960.
- j. Letter from Charles B. Tucker to Bragg, 1955.
- k. Correspondence between Dr. Edward H. Taylor and Bragg, 1950.
- l. Letters from Vasco M. Tanner to Bragg, 1947.
- m. Copy of letter from Bragg to Minnie S. Trowbridge, 1946.

- n. Letter to Bragg from H.S. Telford, 1950.
 - o. Letter to Bragg from the National Research Council.
 - p. Correspondence between Bragg and Wayman J. Thompson, 1954.
 - q. Reprint request from Bragg to William N. Tavolga, 1958.
 - r. Letter to Bragg ("Dr. Brass" sic) from General Binding Sales Corp., 1959.
 - s. Correspondence between Bragg and Frederick B. Turner.
 - t. Letters to Bragg from Mohawk Business Machines Corp., 1955.
 - u. Letter to Dr. John R. Whitaker from Frederick B. Turner, 1958.
 - v. Correspondence between Bragg and Donald W. Tinkle, 1960.
 - w. Correspondence between Bragg and John R. Tester, 1960.
 - x. Nine reprint requests.
- 15.
- a. Letter to Bragg from Richard Van Frank, Academic Press Inc., 1961.
 - b. Correspondence between Bragg and Dr. H.M. Vickers, 1947-1952.
 - c. Correspondence between Bragg and Professor C. Verde, not dated.
 - d. Correspondence concerning letter of recommendation for former student, 1950.
 - e. Copy of letter of recommendation from Bragg to Dr. C.M. Vaughn, 1954.
 - f. Two reprint requests.
- 16.
- Eight letters to Bragg from Peter Volpe and five letters to Volpe from Bragg concerning Volpe's research on the development of the *americanus-fowleri-terrestris-woodhousii* complex, 1950-1959.
- 17.
- a. Correspondence between Bragg and Aaron Wasserman, 1958-1968.
 - b. Correspondence between Bragg and Hosie Waters, 1966-1968.
 - c. Correspondence between Bragg and Mr. Randall W. Webber, 1968.
 - d. Correspondence between Bragg and Ed Wilson, 1967.
 - e. Letter to Bragg from Charles F. Walker, 1946.
 - f. Letters of recommendation for Norman Walter written by Bragg, 1947-1948.
 - g. Letter to Bragg from Charles F. Walker, 1956.
 - h. Note to Bragg from Herbert Eugene Walter, 1939.
 - i. Letter sent to Bragg from J. Waties Waring, 1950.
 - j. Three letters to Bragg from Constance P. Warner, 1956.
 - k. Fourteen reprint requests, 1951-1967.
 - l. Two letters to Bragg from Tom Warwick, 1956.
 - m. Correspondence between Bragg and Robert G. Webb, 1957.
 - n. Correspondence between Sam A. Weiner and Bragg, 1957.
 - o. Correspondence between Deon Wells and Bragg, 1956.
 - p. Letter of recommendation for Paul Ernest Weston, 1952.
 - q. Letter to Bragg from "Ted," 1940.
 - r. Letter to Bragg from Henry Wessenberg, 1956.
 - s. Correspondence between Bragg and Dr. G.W. Wharton, 1947.
 - t. Letter to Bragg from Ralph Wickerman, 1948.
 - u. Correspondence between Bragg and Mr. W.E. Whitehead, 1951.
 - v. Letter to Bragg from John N. Wilson, 1951.
 - w. Letter to Bragg from Oklahoma Tax Commission, 1947.

- x. Letter to Bragg from Irwin Allen, 1955.
- y. Letter to Bragg from Emil Wisschi, 1957.
- z. Correspondence between Bragg and John C. Wottring, 1959.

Box 18

Folder:

1. Five reprint requests, 1958-1961; letter from Bragg to Mrs. Margaret Wallace, 1961; clipping from September 7, 1958 *Waco Tribune-Herald* concerning W.M. Morrison, and antique book dealer in Waco, Texas.
2. Reprint request from Toshiaru Yoshida, Miyazaki University, 1961; letter to Dr. J.T. Self from Dixie Young, with note to Bragg, 1948; correspondence between students' parents and Bragg concerning their child's academic record, 1955.
3. Copy of letter to Rainer Zangerl from Bragg requesting reprints, 1949; thank-you card to Bragg from Department of Zoology, University of Alberta; correspondence between Antoni Zylka, Institute of Systematic Zoology, Krakow, Poland and Bragg, 1968; correspondence between Carl D. Riggs and Louise D. Zillig, 1957; correspondence between Bragg and Richard W. Zweifel and Bragg, 1961-1965.
4. Correspondence between Bragg and Ithaca Teacher's Agency, 1933; between Bragg and College and Specialist's Bureau, 1933; between Bragg and the Albany Teacher's Agency, 1933; between Bragg and the Kellogg's Teacher's Agency, 1933; between Bragg and Schermerhorn Teacher's Agency, 1933; between Bragg and Fisk Teacher's Agency, 1933; between Bragg and Maine State Teacher's Agency, 1934.
5. Correspondence between Bragg and Columbia University concerning Bragg's application for a Lydig Fellowship for aid in graduate study, 1934; between Bragg and the University of Chicago concerning his furtherance of graduate study at that institution, 1933; letter to Bragg from Stanley Oldham, 1932; letter to Bragg "Ed" and a carbon of letter sent by Bragg to the President of Loyola University of Los Angeles, concerning a vacancy in the department of biology at that institution, 1941.
6. Letter from the Johns Hopkins University Bureau of Appointments to Bragg, 1933; Letter to Dr. William Sawyer from Bragg concerning entrance to B.U., 1933; Correspondence between Dr. Bragg and the Department of Zoology at Marquette University, 1932-1933; Two copies of letters to Dr. John Giesen from Bragg, 1933; Correspondence between Bragg and the Science Agency, 1933; Copy of letter to Johns Hopkins University from Bragg, 1933; Two letters to Dr. S.O. Mast from Bragg and two letters to Bragg from Mast, 1932.

7. Correspondence between Bragg and Dr. R.T. Kempton, 1933; between Bragg and Dr. F.E. Pomeroy, 1933; Two copies of letters from former instructors of Bragg concerning his completion of coursework at Johns Hopkins University, 1932; Copy of letter to the Science Press from Bragg concerning employment, 1934; Copy of letter from Bragg to the Graduate School at Yale University concerning application for fellowship, 1934; Copy of letter to Mr. Fred Moore from Bragg concerning employment, 1934; Correspondence between Bragg and Dr. Bridges concerning employment, 1934; Copy of letter to Bragg from Lane Newberry, M.D., with two copies of the same letter, 1934; Correspondence between Bragg and the Andover Garage Co. concerning counterfeit currency, 1934.
8. Correspondence between Bragg and Mr. George Lane, Lewiston Trust Co., concerning loan, 1935; Copy of letter to Dr. R.T. Lutz, Boston University, from Bragg, 1935; Copy of letter from Bragg to the Casa Products Company, and letter to Bragg from Casa Products, 1935; Letter to Bragg from O.E. Plath, 1935; Newspaper clipping concerning the death of Dr. Marshall L. Perrin at Boston University, 1935; Letter from Bragg to H.R. Hulpieu of Indiana University, 1934; Newspaper clipping concerning the arrival of Dr. O.E. May at the Peoria Laboratory, not dated, no indication of source; Copy of letter from Bragg to Dr. S.O. Mast, 1936; Copy of letter of recommendation to Columbia University for Howard Hillman from Bragg, 1936; Letter to Bragg from Lloyd M. Bertholf of Western Maryland College, 1937; Correspondence between Bragg and Dr. R.T. Kempton, 1937; Letter to Bragg from Howard Hillman, 1937; Copy of a letter from Bragg to Mr. Sidney Staples concerning employment, 1938; Letter from Al Hasse to Dr. Bragg, 1939.
9. Correspondence between Bragg and the Equitable Life Insurance Company of Iowa, 1939; Correspondence between Bragg and J. Richard Carpenter, 1939; Correspondence between Bragg and the City Service Commission concerning a vacancy in the position of Curator in Lower Zoology at the Milwaukee, Wisconsin Museum, 1939; Form letter to Bragg from the Executive Office of the President of the National Resources Planning Board, not dated; Letter to Bragg from Brenton R. Lutz, 1940; Copies of two letters from Bragg to Dr. T.M. Sonneborn, 1940; Copy of letter to Dr. Fred W. Emerson from Bragg and one card and letter to Bragg from Emerson, 1941; Letter to Bragg from the Union Central Life Insurance Company, 1942; Memo from President Bizzell concerning the need for instructors in the United States Army-Air Corps, 1942.
10. Correspondence between Bragg and Smith College concerning a teaching position, 1933; Between Bragg and Bradley Polytechnic Institute, 1934; Between Bragg and Tufts University, 1937-1938; Between Bragg and Boston University Bureau of Appointments, 1937; Between Bragg and Fred E. Pomeroy, 1937; Between Bragg and New Mexico Normal University, 1937-1938; Between Bragg and the University of Maryland, 1937; Correspondence surrounding application for employment at Macalister College, 1937; Surrounding application for employment at the University of Toledo in Ohio, 1937; Between Bragg and Elon

- College, 1937; Between Bragg and Eastern Illinois State Teachers College, 1937; Between Bragg and the College and Specialist Bureau, 1937; Surrounding application for a teaching position at the University of Montana, 1937.
11. Letter from Bragg to Dr. W. Kunkel, 1937; Correspondence surrounding a vacancy at A. & M. College of Texas, 1937; Letter from Bragg to *Science* concerning his publication, 1937; Letter from Brenton R. Lutz to Bragg, 1937; Letter to Bragg from George H. Conant, Triarch Botanical Products, 1937; Letter to Bragg from Irving H. Blake, University of Nebraska, 1937; Letter to Bragg from O.S. Plath, 1937; Letter to Bragg from Illinois Wesleyan University, 1937; Correspondence concerning Bragg's application for a position at Indiana University School of Medicine, 1937; Correspondence surrounding Bragg's application for a position at Louisiana State University, 1937; Correspondence surrounding Bragg's application for a position at University of New Mexico, 1938; Correspondence surrounding Bragg's application for a position at Southeastern Louisiana College, 1938; Letter to Dr. A.D. Robertson, Department of Zoology, University of Western Ontario, from Bragg, 1938; Letter to Bragg from Norman E. Phillips, University of Maryland, 1938; Letter to Bragg from New Mexico Normal University, 1938; Letter to Bragg from the University of New Mexico, 1938; Letter to Bragg from the Intermountain Union College, 1938; Correspondence surrounding Bragg's application to Bradley Polytechnic Institute, 1938; Surrounding Bragg's application to Butler University, 1938; Material concerning Bragg's appointment at New Mexico Normal University, 1940; Letter to Bragg from B.R. Lutz, Boston University, 1941.
 12. Correspondence between Bragg and F.H. Lancaster, Lewiston, Maine, 1934-1941; Carbon of letter to Carl Getchell from Bragg, 1935; Correspondence between and the Assessing Department, City of Biddeford, Maine, 1935; Copy of letter to Thomas F. Locke, Biddeford, Maine from Bragg, 1937.
 13. Correspondence between Bragg and the University of Tulsa in Oklahoma, 1937; Original statement of qualifications for Arthur N. Bragg; Carbon copy of qualifications for teaching; Transcripts, both copies and originals, of academic endeavors of A.N. Bragg.
 14. Correspondence surrounding Bragg's appointment as instructor in Zoology at the University of Oklahoma, 1933-1941; Letter to Bragg from W.B. Bizzell concerning Bragg's appointment as instructor in Zoology for the Summer of 1935; Letter informing Bragg of the renewal of his appointment as instructor, 1935; Letter informing Bragg of his appointment to summer school faculty, 1936; Letter informing Bragg of appointment to faculty, 1936-1937; letter to Bragg from Homer Dodge, Dean of Graduate School, University of Oklahoma, 1937; Letter informing Bragg of his appointment to faculty for 1937-1938; Letter to Bragg informing him of his appointment to faculty for 1938-1939; Letter to Bragg informing him of his summer school appointment, 1939; Renewal of Bragg's

appointment as instructor in Zoology, 1939-1940; Renewal of Bragg's appointment as in instructor in Zoology, summer 1941.

15. Folder concerns publication of text, *Invertebrate Zoology*: Correspondence surrounding attempts to have D. Van Nostrand Company publish Bragg's text, 1931-1933; Handwritten series of notes concerned with the terms of Coelomduct and gonaduct, not dated; Correspondence surrounding attempts to have Harper & Bros. publish the text, 1931-1934; Correspondence between Bragg and H. Hillman concerning publication of Bragg's text, 1931; Correspondence between Bragg and A. Petrunkevitch, 1932; Correspondence between Bragg and L.E. Noland, 1932; Copy of letter to Dr. Asa C. Chandler from Bragg, 1932.
16. Correspondence between Bragg and F.A. Potts, 1932; Between Bragg and Dr. E. Linton, 1932; Between Bragg and the John Crerar Library, 1932; Between Bragg and the University of Chicago Library, 1932; Between Bragg and the Johns Hopkins Press, 1932-1933; Between Bragg and the Century Co. Publishing, 1932; Between Bragg and the Science Press, 1932; Between Bragg and Lea & Febiger Publishing, 1932; Between Bragg and The Macmillan Co., 1932; Between Bragg and the National Geographic Society, 1932; Between Bragg and the Columbia University Press, 1932.
17. Correspondence between Bragg and John Wiley & Co., 1932; Correspondence surrounding attempts to obtain photographs of various animals to be used in Bragg's text, 1933; Correspondence between Bragg and The Bruce Publishing Co., 1933; Between Bragg and Dr. William Atwood, 1933; Surrounding attempts to have text published by McGraw-Hill Book Co., 1934; Surrounding attempts to have text published by P. Blakiston's Son & Co., 1934; Surrounding attempts to have text published by Farrar & Rinehart Publishing, 1934; Memo by Bragg concerning overall situation regarding publication of text, 1934; Correspondence between Bragg and Steidt, 1934; Handwritten list of mistakes in text, 1934; Editor's comments on Bragg's *Invertebrate Zoology*; Correspondence between Bragg and W.B. Saunders Co., 1935; Between Bragg and The Williams and Wilkins Publishing Co., 1935; Between Bragg and Charles C. Thomas, Publisher, 1937; Between Bragg and The American Book Company, 1937; Letter to Bragg from the Blakiston Company concerning Bragg's text, 1946.
18. Copy of letter from Bragg to Mr. James B. Lackey, 1946; Correspondence between Bragg and the Macmillan Co. regarding possible publication of Bragg's text, 1941; Advertisement for Cutis & Guthrie's *Textbook of General Zoology*; Correspondence between Bragg and D. Van Nostrand Company, Inc. concerning publication of *Invertebrate Zoology*, 1947; Letter to Bragg from the Academic Press Inc, 1961.

Box 19

Folder:

1. Galley proofs for "Recording Animal Calls," "A Note on Egg Masses," "Salientian Additions," and "Observations on the Narrow..."; Edited manuscript for "Further Notes on Scaphiopus Holbrooki Hurteri in Pool P1"; Carbon of manuscript for "Further Notes on Predation by Tadpoles of the Plains Spadefoot" co-authored by Jack Nelson; Draft of article entitled *Bufo woodhousii scothothorax*, co-authored by Ottys Sanders; Correspondence between Bragg and Ottys Sanders, 1951; Handwritten rough draft of manuscript entitled "V. Tadpoles Adaptation."
2. Reprint of article: "The Formation of Feeding Schools in Tadpoles of Spadefoots," *Wasmann Journal of Biology*, Vol. 26, Sp. 1968; "Further Notes on Predation by Tadpoles of the Plains Spadefoot"; "A New Typhlotriton from Arkansas" by C.S. Smith, article is edited and written by Bragg from notes of Dr. Smith, *Wasmann Journal of Biology*, Vol. 26, Sp. 1968; Reprint of "The Ortenburger Award" by Harley P. Brown; "Mass Movements Resulting in Aggregations of Tadpoles in the Plains Spadefoot, Some of Them in Response to Light and Temperature..."; "Observations on the Life History of Pseudacris triseriata in Oklahoma"; "A Study of Rana areolata in Oklahoma"; "Cicadas Caught by Dragon Flies"; "The Southern Painted Turtle of Oklahoma"; "Leopard Frog Eggs in October".
3. "Is Heterodon Venomous?" *Herpetologica*, Vol. 16, 1960; "A Note on Opossum Behavior" by Otis M. King, *Journal of Mammalogy*, August 21, 1961; "Strecker-Naturalist and Man", December 4, 1961; Review of Fauna Republich Populare Romine, by Ion E. Fuhn; "Primitive as a Biological Term," *Turtlox News*, Jan. 1961; "The Claspng Reflex Observed in Juvenile Spadefoots," and "A Melanistic Tendency in the Great Plains Toad, Bufo Cognatus," *The Southwestern Naturalist*, 1958; "Some Cytological Phenomena in Early Embryos of Bufo Cognatus," 1939; "On Toad and Frog Abundance After Heavy Rainfall," *Science*, February 1942; "Protozoan Ecology," *Science*, Oct. 1937; "Observations Upon Amphibian Deutoplasm and Its Relation to Embryonic and Early Larval Development," *Biological Bulletin*, Oct. 1939; "Use of Parentheses in Zoological Nomenclature," *Science*, June 1939; "Is There a Digestive Canal in Ciliates?" *Science*, March 1935.
4. Five color plates from unidentified magazine depicting various species of American wildlife; "Key to Spadefoot Toads in Oklahoma," *Turtlox News*, 1942; "Clockwise Rotation in Paramecium Trichium," *Science*, 1934; "Tadpoles of Scaphiopus bombifrons and Scaphiopus hammondii," *Wasmann Collector*, not dated; "Recent Changes in Department of Animal Biology at the University of Oklahoma," *Wasmann Journal of Biology*; "The Canebrake Rattler in Oklahoma," 1948; "Size Range in Adults of the Toad, Bufo cognatus," *Copeia*, June 1950; "Use of Carrion by the Beetle, Canthon Laevis," October 1957; "Taxonomic Status of the Gray Tree Frog in Oklahoma," *Herpetologica*, 1958; "On Metamorphic and Post-metamorphic Aggregations in Spadefoots," *Herpetologica*, 1958; "Amphibian Eggs Produced Singly or in Masses," *Herpetologica*, 1957;

- "Lens Action by Jelly of Frog's Eggs"; "Some Factors in Feeding of Toads," *Herpetologica*, 1957.
5. "A Hypothesis to Explain the Almost Exclusive Use of Temporary Water by Breeding Spadefoot Toads," 1964; "The Brain of the Tiger Salamander"; *Essentials of Zoology*, 2nd Edition; "Salute to a Teacher"; *Turtlox News*, December 1949; "Allotment of Funds for Research," *Science*, Dec. 1948; "Aggregation in Tadpoles of Spadefoot Toads," 1946; Outline of "Some Salientian Adaptations," 1946; "Scholarship and Society," 1942; "A Method for Demonstrating Acidity of Food Vacuoles in Paramecium"; "The Ecological Distribution of Toads of in the Genus *Bufo* in Oklahoma," 1941; "The Ecological Distribution of Hylid and Microhylid Frogs in Oklahoma," 1942; "Growth Rates and Age at Sexual Maturity of Young Toads Under Natural Conditions in Central Oklahoma," 1942; "Amphibia of Greer County, Oklahoma," 1955; "Longevity of Tadpole Stage in the Plains Spadefoot..." *Wasmann Journal of Biology*, 1966; History of the Oklahoma Academy of Science, "1948; "An Observation Showing the Biological Necessity for Size Selection of Food Objects by Young Toads," 1948; "Unexplained Aggregations of Carabid Beetles," *Southwestern Naturalist*, April 1964.
 6. "Recent Studies on Spadefoot Toads," 1966, several drafts and copies.
 7. Rough draft, corrected draft and final draft of "*Hyla squirella* in Oklahoma"; One card and one letter to Bragg from the editor of *Copeia*, concerning his manuscript and a new format for notes appearing in publications, 1966.
 8. "An Eruptive Migration of *Bufo cognatus*," by Maurice Brooks; "Social Behavior of Juveniles in *Bufo cognatus*," co-authored by Maurice Brooks; final manuscript for article; Reprint of article from *Herpetologica*, 1958.
 9. "Further Notes on Predation by Tadpoles of the Plains Spadefoot," co-authored by Jack Nelson.
 10. Data for article entitled "Observations on the Ecology and Natural History of Anura VII. Food and Feeding Habits of the Common Species of Toads in Oklahoma"; Early draft of article; Draft of article with corrections and revisions; Carbon of uncorrected manuscript; Draft of manuscript with many revisions; Carbon of final and submitted manuscript.
 11. Carbon of final manuscript entitled "The Identification of Salientia in Oklahoma," 1947.
 12. Galley proofs for article entitled "Field Preservation of Amphibian Eggs and Larvae"; "Allotment of Funds for Research," published in *Science*, 1948; "Location of the Types of *Bufo terrestris charlesmithi*," 1955; Card to Bragg from Chapman Grant, 1955; Carbon of manuscript entitled "Observations of the

- Ecology and Natural History of Anura XIV. Growth Rates and Age at Sexual Maturity of *Bufo cognatus* under Natural Conditions in Central Oklahoma," 1947.
13. Original and carbon of manuscript entitled "An Apparatus for Collecting Small Aquatic Organisms," with many corrections and some revisions; Printer's copy of manuscript; Galley proof for article; Two letters to Bragg from Blair Coursen concerning publication of Bragg's article, 1950.
 14. Printer's copy of manuscript for "Extensions of Known Salientian Ranges in Oklahoma," co-authored by Harold Dundee, 1947; Printer's copy of manuscript for "Some New County Records of Salientia and a Correction in the List from Oklahoma," 1947; Printer's copy of manuscript for "Aggregational Phenomena in *Scaphiopus Hurteri* Tadpoles," 1947.
 15. Carbon of manuscript entitled "Aggregation in Tadpoles of Spadefoot Toads."
 16. Table of contents of "Research Papers on the Amphibia in Oklahoma"; Draft of manuscript entitled "The Identification of Salientia in Oklahoma"; Handout, "Annotated List of Species and Subspecies"; Handout, "Key to Frogs and Toads in Oklahoma"; Rough draft of "Some Adaptations of Spadefoot Toads Serving Racial Survival"; Two carbons of manuscript "Some Adaptations..."; "Salientian Breeding Dated in Oklahoma"; Rough draft of "A Key to the Adult Salamanders of Oklahoma"; "Frequency of Sex-Calls of Some Salientia"; Assorted pages from unidentified manuscript.

Box 20

Folder:

1. Early draft and carbon of final manuscript entitled "Observations on the Narrow-Mouthed Salamander," 1950.
2. Carbon of manuscript entitled "Note on the Egg Masses of *Scaphiopus Hurteri* Strecker," 1950; Two carbons of manuscript entitled "Salientian Additions to County Lists in Oklahoma," 1950.
3. Two early drafts and carbon of final manuscript for "Some Factors in the Feeding of Toads," 1957; Copy of letter to C. Grant of *Herpetologica* from Bragg, 1957; Letter to Bragg from Grant with edited manuscript "Some Factors in the Feeding of Toads," 1957; Copy of letter to Grant from Bragg with attached revised manuscript.
4. Carbon of manuscript "Observations on the Ecology and Natural History of Anura XVI. Life History of *Pseudacris clarkii* in Oklahoma," 1943.

5. Carbon of manuscript for "Psychology of Frogs and Toads," 1943; List of criticisms offered by Dr. Harrington; Letter to Bragg from *The Journal Press* concerning the publication of manuscript, 1943.
6. Heavily edited manuscript for "Breeding and Tadpole Behavior in *Scaphiopus Hurteri* Near Norman, Oklahoma, Spring, 1945."
7. Very heavily edited manuscript of "A Scientist Looks at Religion," 1956; Copy of letter to Dr. A.M. Keefe from Bragg concerning publication of manuscript above.
8. Carbon of manuscript "Some Salientian Adaptations," 1947.
9. Rough draft of manuscript "Observations on the Ecology and Natural History of *Anura* XVII. Adaptations and Distribution in Accordance with Habits in Oklahoma"; Revised version of above manuscript; A second revision of above manuscript; Series of retyped pages from manuscript, 1947.
10. Two carbons of manuscript "*Bufo woodhousii* *scotothorax* and its Relation to Other Toads in and near its Range," 1951; Three maps of Texas divided in to counties with notations written in; List of collection numbers and locations of specimens; Letter to Bragg from Ottys Saunders concerning article mentioned above, 1951.
11. Copy of manuscript of "*Bufo terrestris charlesmithi* from Oklahoma"; Two carbons of final manuscript for article above; Three illustrations of the State of Texas with shaded portions indicating extent of new subspecies and three photographs of new subspecies.
12. Printer's copy of manuscript "A Second Season with *Rana areolata* in Oklahoma," 1951.
13. Carbon of short manuscript "On the Life and Influence of John K. Strecker, Jr."
14. Copy of short manuscript "Leopard Frog Eggs in October," co-authored by Virgil E. Dowell; Copy of short manuscript "Recording Animal Calls for Teaching Aids," 1950.
15. Letter to Bragg from Fred R. Cagle concerning Bragg's manuscript "Further Observations on Spadefoot Toads," 1956; Early draft of manuscript; Revised draft of manuscript with corrections; Copy of letter to C. Grant from Bragg with a letter to Bragg from Hobart M. Smith; Copy of final draft of manuscript.
16. Copy of letter to Br. Vasco M. Tanner with attached manuscript, "The Amphibia of Greer County, Oklahoma," 1954; Copy of letter to Bragg from C. Grant with attached manuscript and a card from Grant to Bragg, 1956-1957; Letter to Bragg from Vasco M. Tanner, informing Bragg that he was to receive 200 reprints of his

- article, 1956; Correspondence between Bragg and *Herpetologica*, concerning the return of the manuscript, 1956.
17. Original draft of manuscript entitled "In Quest of the Spadefoots," not dated.
 18. Early draft of manuscript entitled "Notes on the Behavior of Toads in Captivity," 1956; Copy of final draft of manuscript.
 19. Rough draft of article "Variation in Colors and Color Patterns in Tadpoles in Oklahoma," 1956; Second draft of manuscript; Copy of letter by Bragg to *Copeia*, 1955; Carbon of final manuscript.
 20. Early draft of manuscript entitled "Salientian Range Extensions in Oklahoma and a New State Record"; Carbon of draft of manuscript above; Copy of final revision of manuscript.
 21. Carbon of manuscript "Breeding Habits, Eggs and Tadpoles of *Scaphiopus Hurteri* in Oklahoma"; Heavily edited original manuscript "Observations on the Ecology and Natural History of *Anura XIII*"; Copy of final manuscript, 1942.
 22. Carbon of manuscript entitled "A Note on the Behavior of the House Fly"; Letter to Bragg from F. Copeland, OU School of Journalism, concerning manuscript, 1935; Copy of manuscript entitled "Observations on the *Anura IV*. The Ecological Distribution of Toads in Oklahoma"; Correspondence between Bragg and *The Journal of Experimental Zoology* concerning publication of his manuscript, "Selection of Food in *Paramecium Trichium*," 1934; Cover letter to *Science* from Bragg with attached copy of final manuscript; Carbon of edited manuscript, "Science--Practical and Impractical," 1943.
 23. Correspondence between Bragg and *Science* and between Bragg and The Wisconsin Academy of Science, Arts and Letters, with attached manuscript, "The Action of the Food Vacuole of *Paramecium Trichium* as it Enters Endoplasm," 1934; Original manuscript "Note on the Occurrence of Morphological Variations in Two Species of Frogs, a Hen's Egg and a Jellyfish"; Copy of manuscript "Toxicity of Certain Carmine Preparations to Protozoa," 1936; Material containing Bragg's application for research grant from the Oklahoma Academy of Science, 1939.

Box 21

Folder:

1. Copy of letter to Dr. E.S. Deevey from Bragg and card from Deevey to Bragg with attached copy of manuscript "Behavior Food and Feeding Reactions in Tadpoles of the Savannah Spadefoot," 1952; Early draft of manuscript "Aggregational Behavior and Feeding Reactions in Tadpoles of the Savannah

- Spadefoot," 1953; Correspondence between Bragg and Chapman Grant concerning the publication of manuscript in *Herpetologica*, 1953-1954.
2. Carbon of manuscript entitled "Longevity of the Tadpole Stage in the Plains Spadefoot," 1962.
 3. Early draft of manuscript "A Study of *Rana Areolata* in Oklahoma," 1949; Revised draft of manuscript; Final version, printer's copy and carbon of manuscript including illustrations and photos; Envelope containing thirteen illustrations and photos associated with manuscript; Correspondence between Bragg and Dr. E.L. Kessel surrounding the publication of manuscript in *The Wasmann Journal of Biology*, 1950.
 4. Carbon of short manuscript entitled "A Second Season with *Rana areolata* in Oklahoma," 1950.
 5. Galley proofs for "Observations on the Ecology and Natural History of Anura I. Habits, Habitat and Breeding of *Bufo Cognatus*," 1939; Galley proofs for "Observations on the Ecology and Natural History of Anura IV. The Ecological Distribution of Toads in Oklahoma."
 6. Galley proofs for "Observation on the Ecology and Natural History of Anura VIII. Food and Feeding Habits of the Common Species of Toads in Oklahoma"; Galley proofs for "The Organization of the Early Embryo of *Bufo Cognatus*, as Revealed Especially by the Mitotic Index"; Galley proofs for "Observations Upon Amphibian Deutoplasm and its Relation to Embryonic and Early Larval Development."
 7. Printer's copy of manuscript "The Spadefoot Toads in Oklahoma with a Summary of our Knowledge of the Group," not dated; Carbon of above manuscript.
 8. Carbon copy of edited manuscript "Observations on the Ecology and Natural History of Anura IV. The Ecological Distribution of Toads in Oklahoma."
 9. Printer's copy and carbon of manuscript "Observations of the Life History of *Pseudacris triseriata* in Oklahoma."
 10. Printer's copy and carbon of manuscript "The Status of the Leopard Frogs in Oklahoma."
 11. Carbon of manuscript "Reptiles Collected in the Vicinity of Las Vegas, New Mexico," co-authored by Harold A. Dundee; Two letters to Karl P. Schmidt from Bragg and a letter to Bragg from Schmidt, with attached illustration and manuscript "The Size Range of Adult *Bufo Cognatus*"; Letter to Schmidt from Bragg and card from Schmidt to Bragg with attached revised version of manuscript.

12. Carbon of manuscript "Observations on the Ecology and Natural History of Anura XVII. Adaptations and Distribution in Accordance with Habits in Oklahoma."
13. Original and carbon of manuscript entitled "Parental Care in a Centipede"; Original and carbon of manuscript entitled "A Sexual Difference in Dermal Secretion in Spadefoots"; Carbon of manuscript "Salientian Collections in Oklahoma," 1948; Carbon of manuscript entitled "Egg laying in Leopard Frogs," 1947.
14. Carbon of manuscript "Observation of Hydra versicolor in Oklahoma"; Carbon of manuscript "Some Adaptations of Spadefoot Toads Serving Racial Survival."
15. Much edited original and carbon of manuscript "Additional Instances of Social Aggregation in Tadpoles," 1947.
16. Two carbons of manuscript "A Comparison of the Ovaries of Two Species of Bufo with Different Ecological Requirements"; Carbon of manuscript "The Canebrake Rattler in Oklahoma"; Galley proofs, original and carbon for manuscript "Some Data on Numbers of Segments in Lumbricus terrestris."

Box 22

Folder:

1. Edited carbon and carbon of revised manuscript "The Tadpole of Bufo debelis"; Carbon of manuscript "Supplementary Notes on the Young of Rana Areolata."
2. Early version of manuscript "Observations on the Ecology and Natural History of Anura X. Notes of Pseudacris streckeri Wright and Wright in Oklahoma," 1940; Printer's copy and carbon of revised manuscript above.
3. Original and carbon of manuscript "Observations on the Ecology and Natural History of Anura XII. The Spadefoot Toads in Oklahoma," 1942; Carbon of manuscript "Observations on the Ecology and Natural History of Anura IX. Notes on Breeding Behavior in Oklahoma," 1942.
4. Correspondence between Bragg and Dr. Frank G. Brooks with attached carbon of manuscript "Confusion Thrice Confounded--A Problem in Teaching Elementary Courses in Biological Sciences," 1947; Carbon of manuscript "Puzzles in Life History of Scaphiopus Hurteri Strecker"; Copy of letter to Dr. E. Kessel from Bragg with attached manuscript "Breeding and Tadpole Behavior in Scaphiopus Hurteri near Norman, Oklahoma in Spring of 1945"; Copy of letter to Dr. F.R. Moulton from Bragg with attached copy of "Scholarship and Society," 1942; "On the Economic Value of Oklahoma Toads," 1942; "Common Names for Frogs and Toads in Oklahoma," 1943.

5. Copy of letter to Dr. Kessel from Bragg with attached printer's copy of manuscript "A New Subspecies of the Woodhousii Group of Toads" co-authored by Ottys Sanders, 1954.
6. "Amphibians of McCurtain County, Oklahoma"; Copy of letter to Dr. Norman Hartweg with attached carbon of manuscript "Taxonomic and Physiological Factors in the Embryonic Development of Certain Toads"; Carbon of early version of final manuscript entitled "Salientian Additions to County Lists in Oklahoma."
7. Carbon of manuscript entitled "Observations on the Ecology and Natural History of Anura VII. Food and Feeding Habits of the Common Species of Toads in Oklahoma," 1942.
8. Card to Bragg from C. Grant and copy of letter to Grant from Bragg with attached carbon of manuscript "The Amphibia of Cherokee County, Oklahoma," 1954; Carbon of manuscript "A Melanistic Individual of *Eurycea multiplicata* Cope," co-authored by W.F. Hudson; "New County Records of Salientia and A Summary of Known Distribution of Caudata in Oklahoma," co-authored by W.F. Hudson; "Viability of the Eggs of *Bufo Cognatus*," co-authored by Jack Bresler.
9. Carbon of manuscript "Mass Movement at Metamorphosis in the Savannah Spadefoot, *Scaphiopus Hurteri*, Strecker"; "Size Range in Adults of *Bufo woodhousii* Girard"; "Further Notes on Range Extensions of Salientia"; Printer's copy and carbon of manuscript "Observations on *Microhyla*."
10. Letter to Dr. Kessel from Bragg with attached copy of manuscript, "Observations on *Scaphiopus*, 1949"; Correspondence between Bragg and Dr. Lloyd H. Shinnery with attached carbon of abstract and final manuscript, "Dimorphism and Cannibalism in Tadpoles of *Scaphiopus bombifrons*," 1956; Correspondence between Bragg and Chapman Grant with attached carbon of early version of "Eggs..." and printer's copy of "The Eggs of the Dwarf American Toad," 1957; Galley proof and two carbons of manuscripts of "A Parasite of *Scaphiopus bombifrons* Tadpoles."
11. Copy of letter to C. Grant from Bragg with attachment of manuscript "Amphibian Eggs Produced Singly or in Masses," 1957; Two invoices for reprints; Two postcards to Bragg from Lloyd Shinnery and attached manuscript "Note on the Behavior in *Canthon Laevis*"; Copy of letter from Bragg to Dr. Fred Cagle with attached manuscript, "The Southern Painted Turtle in Oklahoma"; "The Taxonomic Status of the Gray Tree Frog in Oklahoma," 1958; "Spadefoot Toads"; Series of memos concerning "Spadefoot Toads"; Copy of letter from Bragg to Shinnery concerning two manuscripts, 1958; "On Metamorphic and Post Metamorphic Aggregations in Spadefoots," 1958.

12. Three letters to Bragg from *Turtox News* with rough draft and carbon of final manuscript of "Primitive as a Biological Term," 1960; Two postcards to Bragg from *Copeia* with attached carbon of manuscript of "Response of a Female *Pseudacris nigrita triseriata* to the Call of the Male," 1959; Copy of letter to Dr. Lloyd Shinnars from Bragg with carbon of manuscript "Variations in the Mouth Parts in Tadpoles of *Scaphiopus bombifrons*" co-authored by William N. Bragg, 1958.
13. Printer's original copy and carbon of manuscript "Behavior of Tadpoles of Hurter's Spadefoot during an Exceptionally Rainy Season."
14. Original manuscript "Voice in Salientia I. Observation on *Hyla Versicolor* and *chrysoscelis* Intergrades in Central Oklahoma with a few Data from Arkansas," 1959; Rough handwritten draft of manuscript, not dated; Original manuscript "Population Fluctuation in the Amphibian Fauna of Cleveland County, Oklahoma During the Past Twenty-Five Years."
15. Original manuscript "Ovulation and Breeding Patterns in Salientia," 1960; Two letters to Bragg from Donald W. Tinkle with carbon of manuscript "Observations on the Feeding of Spadefoot Tadpoles"; Correspondence between Bragg and *Turtox News* with attached carbon of manuscript, "Field Preservation of Amphibian Eggs and Larvae"; Carbon of early draft of "Field Preservation of Amphibian Eggs and Larvae"; Two letters to Bragg from the editor of *Turtox News* and one letter to the editor from Bragg with attached copy of "Field Preservation of Amphibian Eggs and Larvae--A Clarification," 1949.
16. Three manuscripts used on radio programs: "Animal Life in Temporary Water," "More About Oklahoma Toads--The Spadefoots," and "The Distribution, Habits and Economic Value of Toads in Oklahoma," 1941; Outline for news broadcast, 1942.
17. Original manuscript, "Is Heterodon Venomous?"

Box 23

Folder:

1. Non-biological manuscripts by A.N. Bragg: "Tell a Child the Truth," "Science: Practical and Impractical."
2. "A Description of Embryos and Larvae of *Bufo woodhousii* Girard," "Hummock's Paper on White Mice," and graphs by V. Johnson.
3. Typescripts by Charles Clinton Smith: "Reclamation of Eroded Land," "Wildlife and Roadside Erosion in Central Oklahoma," "The Bobwhite and Oklahoma Agriculture," "Roads and Erosion in Central Oklahoma," "A Study in the

Inheritance of Leaf Form..." "The Human Diaphragm," and "Roads, Erosion and Wildlife."

4. Partial typescript by Beatrice Bragg with Oklahoma map.
5. Typescript by A.N. Bragg with mounted photos, data sheets and graphs.
6. Typescript with mounted snake photos, graphs, maps, and notes.
7. Mounted photos related to folders 5 and 6.
8. Data sheets, notes, graphs and maps.

Box 24

Folder:

1. Data sheets, handwritten specimen lists and U.S. maps with notations.
2. Data sheets on Heterodon.
3. Miscellaneous handwritten notes.
4. Handwritten notes and types catalog specimen lists.
5. Handwritten and typed notes; Thesis by Beryl Freeman, "Variations in the Lepidosis of Some Oklahoma Snakes"; and typed bibliography.
6. Index file box with 3"x5" file cards: "Data--Amphibian Voices" and "Publications of Arthur N. Bragg."
7. Standard index cards: "Salientian Voices--Soundsciber Records."

Box 25

Folder:

1. Specimen lists with numbers, specimen i.d. cards and miscellaneous notes with specimen numbers.
2. Oklahoma map with notes.
3. Maps of Oklahoma with notes on snakes, lizards, and turtles.
4. Maps of Oklahoma with notes on snakes.
5. Correspondence concerning manuscripts: from B.O. Osborn, U.S. Department of Agriculture, November 25, 1942; to B.O. Osborn from Bragg, November 30,

1942; to M.M. Boyer, Enid High School, December 11, 1942; to D.B. McMullen, OU Medical Center, December 11, 1942; to S.A. Carson, OU Medical Center, December 11, 1942; to Sister M. Maloney, Catholic College, December 11, 1942; to Dr. K.S. Chester, Oklahoma A&M College, December 11, 1942; from Dr. Chester, December 15, 1942; from McMullen, December 17, 1942; to Chester, November 15, 1942; from H.J. Harper, Oklahoma Academy of Science, December 10, 1942; to Harper, December 10, 1942; from Carson, December 10, 1942; from Maloney, December 28, 1942; to Carson, December 29, 1942; from O.C. Dermer, Oklahoma Academy of Science, January 2, 1943; to Dermer, January 7, 1943; from Carson, January 13, 1943; to Carson, January 19, 1943; to Dermer, February 2, 1943.

6. Letters to A.I. Ortenburger, University of Michigan, concerning specimen lists with attached list of negatives, 1933-1934; Species catalog lists, typed; Species catalog lists, handwritten; Bibliography--Mammals; Checklist of Oklahoma fishes; Shipping invoices with related correspondence; Prints of famous anatomists.

Box 26

Item:

1. One large cardboard box containing standard-size file cards.

Box 27

Item:

1. Sound recordings: "Salientian Voices"; recorded notes and miscellaneous; blank discs in envelope.

Box 28--Outsize

Item:

1. Contains 4 wooden boxes of mounted microscope slides: toad and frog testes, toad embryos, anuran embryos, vertical tissues and embryos, testes, ovaries and embryos.

List of Manuscripts in the Bragg, A.N. Collection

1. Text: *Invertebrate Zoology*, Box 1, Folder 1.
2. Book: *Frogs and Toads in Oklahoma*, Box 2, Folder 1.
3. Art: *Amphibia in Oklahoma*, Box 3, Folder 3.
4. Art: *Amphibians in Oklahoma*, Box 3, Folder 4.

5. Art: *Summary of Oklahoma Salientia*, Box 4, Folder 1.
6. Art: *Observations on the Ecology and Natural History of Anura IX. Notes on Breeding Behavior in Oklahoma*, Box 4, Folder 3.
7. Art: *A Hypothesis to Explain the Almost Exclusive Use of Temporary Water by Breeding Spadefoot Toads*, Box 4, Folder 3.
8. Art: *Observations on the Herpetological Complex in the Vicinity of Las Vegas, New Mexico with Special Reference to Amphibia*, Box 4, Folder 3.
9. Art: *Mass Movements Resulting in Aggregations of Tadpoles of the Plains Spadefoot, Some of Them in Response to Light and Temperature*, Box 4, Folder 3.
10. Art: *On the Origin and Evolution of the Spadefoot*, Box 4, Folder 3.
11. Art: *On Frog and Toad Abundance after Heavy Rainfall*, Box 4, Folder 3.
12. Art: *Selection of Food in Paramecium Trichium*, Box 4, Folder 3.
13. Art: *The Initial Movements of the Food Vacuole of the Paramecium Trichium Stokes*, Box 4, Folder 3.
14. Art: *Clockwise Rotation in Paramecium Trichium*, Box 4, Folder 3.
15. Art: *An Ecological Study of the Protozoa of Crystal Lake, Norman, Oklahoma*, Box 4, Folder 9.
16. Art: *Variations in the Mouthparts of Tadpoles*, Box 5, Folder 13.
17. Art: *Importance of Voice in Social Integrations*, Box 5, Folder 18.
18. Art: *Feeding of the Houston Toad*, Box 5, Folder 16.
19. Art: *Lens Action by Jelly on Frog's Eggs*, Box 5, Folder 19.
20. Art: *Salute to a Teacher*, Box 6, Folder 1.
21. Art: *A Study of Labial Teeth Tows in Tadpoles of Couch's Spadefoot*, Box 6, Folder 2.
22. Art: *Further Study of Predation and Cannibalism in Spadefoot Tadpoles*, Box 6, Folder 2.
23. Art: *Strecker--Naturalist and Man*, Box 6, Folder 4.

24. Art: *Predator-Prey Relationship in Two Species of Spadefoot Tadpoles with Notes on Some Other Features of Their Behavior*, Box 6, Folder 5.
25. Art: *Saprolegnia of Tadpoles Again in Oklahoma*, Box 6, Folder 6.
26. Art: *History of Oklahoma Academy of Science*, Box 6, Folder 7.
27. Art: *Predation on Arthropods by Spadefoot Tadpoles*, Box 6, Folder 8.
28. Art: *The Mouthparts of Tadpoles of Hurter's Spadefoot*, Box 6, Folder 8.
29. Art: *Aggregational and Associated Behavior in Tadpoles of the Plains Spadefoot*, Box 6, Folder 9.
30. Art: *The Behavior and Comparative Development Rates in Nature of Tadpoles of a Spadefoot, a Toad, and a Frog*, Box 6, Folder 10.
31. Art: *An Unexplained Aggregation of Carabid Beetles*, Box 6, Folder 13.
32. Art: *A Naturalist of the Transition--John K. Strecker, Jr.*, Box 7, Folder 1.
33. Art: *The Ortenburger Award*, Box 9, Folder 3.
34. Art: *Taxonomic and Physiological Factors in the Embryonic Development of Certain Toads*, Box 9, Folder 4.
35. Art: *Data on Size Range in Adults of Bufo s. woodhousii*, Box 9, Folder 4.
36. Art: *A New Typhlotriton from Arkansas*, Box 9, Folder 4.
37. Art: *Salientian Collections in Oklahoma, 1948*, Box 9, Folder 5.
38. Art: *A Metamorphic Aggregation in Tadpoles of Bufo*, Box 9, Folder 7.
39. Art: *Decline in Toad Population in Central Oklahoma*, Box 9, Folder 7.
40. Art: *Observations on the Ecology and Natural History of Anura XV. The Hylids and Microhylids of Oklahoma*, Box 9, Folder 7.
41. Art: *Behavior, Food, and Feeding Reactions in Tadpoles of the Savannah Spadefoot*, Box 9, Folder 9.
42. Art: *Salientian Range Extensions in Oklahoma and a New State Record*, Box 9, Folder 9.
43. Art: *Further Observations on Spadefoot Toads*, Box 9, Folder 9.

44. Art: *Further Notes on Scaphiopus Holbrooki Hurteri in Pool P1*, Box 9, Folder 11.
45. Art: *Values in Philately*, Box 14, Folder 6.
46. Art: *Theory of Development if Breeding Patterns in Some North American Salientia*, Box 14, Folder 6.
47. Art: *The Christian Spirit on Stamps*, Box 14, Folder 6.
48. Art: *Training or Education*, Box 14, Folder 6.
49. Art: *The Pickerel Frog*, Box 14, Folder 6.
50. Art: *The Principles of Competition*, Box 14, Folder 6.
51. Art: untitled, Box 14, Folder 7.
52. Art: *Adaptive Responses of Insects with Special Reference to Survival of Species During Evolution*, Box 14, Folder 8.
53. Book: *Publications of the University of Oklahoma Biological Survey, Volume VI*, Box 14, Folder 10.
54. Book: *Gnomes in the Night*, Box 15, Folder 1.
55. Art: *Further Notes on Predation by Tadpoles of the Plains Spadefoot*, Box 19, Folder 19.
56. Art: *Bufo Woodhousii Scothothorax and it Relation to Other Toads in and Near its Range*, Box 19, Folder 1.
57. Art: *Tadpoles Adaptation*, Box 19, Folder 1.
58. Lecture: *Aggregation in Tadpoles of Spadefoot Toads*, Box 19, Folder 5.
59. Lecture: *Some Salientian Adaptations*, Box 19, Folder 5.
60. Art: *Scholarship and Society*, Box 19, Folder 5.
61. Art: *Recent Studies on Spadefoot Toads*, Box 19, Folder 6.
62. Art: *Hyla Squirella in Oklahoma*, Box 19, Folder 7.
63. Art: *Social Behavior in Juveniles of Bufo Cognatus*, Box 19, Folder 8.

64. Art: *Observations on the Ecology and Natural History of Anura VIII. Food and Feeding Habits of the Common Species of Toads in Oklahoma*, Box 19, Folder 10.
65. Art: *The Identification of Salientia in Oklahoma*, Box 19, Folder 11.
66. Art: *Allotments of Funds for Research*, Box 19, Folder 12.
67. Art: *Location of the Types of Bufo terrestris charlesmithi*, Box 19, Folder 12.
68. Art: *Observations on the Ecology and Natural History of Anura XIV. Growth Rates and Age at Sexual Maturity of Bufo Cognatus under Natural Conditions in Central Oklahoma*, Box 19, Folder 12.
69. Art: *An Apparatus for Collecting Small Aquatic Organisms*, Box 19, Folder 13.
70. Art: *Extensions of Known Salientian Ranges in Oklahoma*, Box 19, Folder 14.
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