

15/24/20

Liberal Arts and Sciences

Zoology

Victor E. Shelford Papers, 1896-1965

Papers of Victor E. Shelford, professor of Zoology (1914-46), including correspondence, mimeographed committee reports and statements relating to the Ecological Society of America and the Committees for the study of Plant and Animal Communities, on the Preservation of Natural Conditions and on Applied Ecology; plant, animal and aquatic ecology; scientific meetings, lectures and papers, field trips and contributions to the Naturalist's Guide (1924); listing nature sanctuaries, natural areas and biotic and animal communities; listing, describing and increasing the number of natural areas for wild animals; predatory animal control and wild life research; preservation of natural conditions for ecological study, especially the biologically primitive in national parks; the commercial use of national parks and construction of a tunnel in the Rocky Mountain National Park (1933); study of grasslands areas (1931); American entry into World War I and family matters.

Significant documents relate to the organization, development, membership and functions of the Ecological Society (10/5/37 & 11/30/39); the Grassland Research Foundation (1939-58); the Foundation for the Study of Cycles (1943-45, 1949); a sabbatical leave report (2/23/45); a discussion of the organization and emphasis of the Ecological Society and its committees resulting from an Executive Committee proposal to limit the Committee on the Preservation of Natural Conditions to identifying and studying natural areas and providing information and advice without attempting to influence legislation (6/6/45, 12/16/45 & 12/20/45) - The Executive Committee said unbiased scientific experts should not engage in political activity, while Shelford said federal employees and National Research Council members were under unusual restrictions in working to protect natural areas - ; the University Committee on Natural Areas and Uncultivated Lands, especially the care and use of Brownfield and Trelease Woods and a history of the Committee, 1918-47 (3/14/47) (1946-49); (1948-49); retirement pensions and scholarly activities of emeriti (1951, 1954, 1956); the Wildlife Management Institute (1952-54); a proposed plant and animal life sciences building (1952, 1954-55); botany and zoology as biological sciences (1953); editing of biological monographs (1954-56); an article about Shelford (1955); Shelford's lecture on "The History of Ecology" (1958); a history of Ecology to 1919 (1960) and a note about the influence of Shelford's writings (1961).

Correspondents include Warder C. Allee of Chicago, Walther Horn of Berlin, Ellsworth Huntington of Yale, Harold Ickes, David S. Jordan of Stanford, Frank R. Lillie of Chicago, Clarence McClung of Pennsylvania, John C. Merriam of the Carnegie Institution, Barrington More, Gifford Pinchot, W.E. Rumsey of West Virginia, Forrest Shreve of Arizona, A.G. Tansley of Cambridge, Henry A. Wallace, Asa O. Weese of New Mexico & Albert H. Wright of Cornell.

Professor Shelford's research and teaching interests included the life histories and color pattern of tiger beetles; ecology of aquatic animals; physiological life histories; relations to climate; climate stimulation apparatus; marine communities; light effects and measurement; bioecology; fluctuations in number and fecundity of organisms; animal ecology; cycles; bioecology of North America; paired factors and the administration of biological sciences.

Box 1:

Correspondence File:

1896-1909

School documents, letters of recommendation, scholarship offers, University of Chicago (1902-09), W. Bateson (1/31/08)

1910-19

W.C. Allee (2/6/11), University of Chicago, S.A. Forbes (11/4/13), Walther Horn (1913, 1916), A.G. Tansley (9/3/14), Puget Sound Marine Station (1915), Ecological Society of America, D.S. Jordan (6/16/17)

1914-46

University of Illinois Appointments

1920-23

G. Pinchot (4/15/20), B. Uvarov (6/16/22)

1924

Publication, "Naturalist's Guide to the Americas"

1925-30

W.T. Grenfell (7/15/25), publications, field work

1931-35

Ecological Society of America committee reports, H.A. Wallace (8/3/33)

1936

U.S. Departments of Interior & Agriculture

1937-39

Ecological Society of America, especially 11/30/39 letter to W.C. Allee, 6/23-8/4/39 animal ecology field trip

1939-58

Grassland Research Foundation

1940, 1946-49

University Committee on Natural Areas & Uncultivated Lands

1941, 1943-45

Ecological Society of America

Box 2:

Correspondence File:

1942-46

Animal Ecology Field Studies Inc. (2 folders) corporation to provide bus service for field work during wartime rationing

1946-47

Conservation Council, Vivarium research equipment, retirement

1948-49

Chinch Bug outbreaks

1950-52

Retirement benefits research

- 1953-54
Life Science building, manuscripts
- 1954-56
Editing of Biological Monographs
- 1955-56
Publications, Trelease & Brownfield Woods
- 1957-58
Ecology of North America

Box 3:

- 1960-61
"History of Ecology" by Richard Brewer
- 1964-65
The Ecology of North America reviews
- 1965
Tape recording

SUMMARY OF TAPE RECORDING OF MARCH 24, 1965:

- 0-4 Identity of Tape.
- 5-7 Youth in New York.
- 8-19 West Virginia University; William E. Rumsey.
- 20-41 University of Chicago; President Jerome Raymond; scholarship. Faculty Frank R. Lillie, C.B. Davenport, H.C. Cowles and Whitman.
- 42-51 Interest in ecology. Cowles and Brehm "influenced me most....Brehm wrote descriptions such as I wanted to do."
- 52-93 Ecological Society of America; vice chairman of organizing committee; midwestern universities; Ecology of North America references to Stephen A. Forbes and Charles M. Child and history in introduction.
- 94-111 University of Illinois. Forbes was responsible for my coming to Illinois. He liked the papers that I had written. Forbes told Ward that if he did not take Shelford in Zoology, Forbes would take Shelford in Entymology.
- 112-123 Stephen A. Forbes - scientist.
- 124-130, Henry B. Ward - founded parasitology. They attempted to fire him in 172-185

the 1920's. Roger Adams persuaded him not to fight.

- 131-136 Edmund J. James - fine man.
- 137-140 Charles Zeleny - an enigma.
- 141-157 David Kinley - an old scoundrel, "blustered and roared."
- 158-171 Kendric C. Babcock - fired by the U.S. Office of Education at request of Chancellor James R. Day (Syracuse).
- 186-187 Roger Adams - did things.
- 188-197 Arthur C. Vestal - interested in ideas.
- 198-203 C.A. Adams was at Illinois; C.C. Adams was a successful ecologist.
- 204-209 College of Agriculture faculty did what the dean told them to.
- 210-217 Charles M. Childs' advice is in the dedication of The Ecology of North America; he believed in experiments.
- 218-221 F. E. Clements wrote ecological books.
- 222-236 Field Work. I did not follow up the marine field. I travelled in all of the states of the U.S., all provinces of Canada and three-fourths of the states of Mexico.
- 237-250 Naturalist's Guide, Editor Forrest Shreve.
- 251-265 Concern for preservation of natural areas.
- 266-270 Grasslands Research Foundation "didn't amount to anything."
- 271-288 1945 Ecological Society controversy. I sought to organize a nature retreat and it "disrupted" the Ecological Society. The Society would not get involved in politics.
- 290-297 Development of Ecology.
- 298-301 Identification of April 1, 1965 tape.
- 302-364 Laboratory and Field Ecology (1929) covers ecological methodology and behavior of plants and animals under nature. Work done while assisting

Stephen A. Forbes prior to 1929. Book dedicated to Henry B. Ward, Arthur H. Daniels and James M. White. White supported Daniels. Between Daniels and Ward, I got everything I wanted. I disposed of the extra copies of this book to ecologists and students.

- 365-375 Carl Oesterling was editor and corrected copy.
- 376-384 Warder C. Allee - Chicago; my first doctorate.
- 385-389 Samuel Eddy - Minnesota; doctoral student.
- 390-401 Charles F. Hottes - lecturer with "a preacher's voice." Chauncey Juday; R. Kudo.
- 402-418 Jakob Kunz - I was the first to use the photoelectric cell under water. Effect of light on marine life.
- 419-428 Stephen A. Forbes' "The Lake as a Microcosm" used Möbius' system (German).
- 429-439 A.H. Wright - I knew him at Cornell as early as 1915. He is still there.
- 440-444 A. G. Tansley - English ecologist.
- 445-457 Barrington More was interested in promoting ecology.
- 458-466 Forrest Shreve - Tucson, Arizona Desert Laboratory.
- 467-470 A.O. Weese - Oklahoma. Took his degree with me.
- 471-474 S. Charles Kendeigh.
- 475-480 12-15 took doctorates with me.
- 481-538 The Ecology of North America (1963). Financed by the University Press and the Illinois Foundation. I had quarreled with the Foundation head about faculty salaries in public, but he helped support the book anyhow.
- 539-546 Fracasés, rows and controversies - "I enjoyed them all."
- 547-574 A geographer and Kendeigh read the book for me.
- 575-617 Field trips in North America. Assistants and classes. Reelfoot Lake. I was there during the intrusion of civilization.
- 618-643 Vivarium laboratory was used in research for Laboratory and Field Ecology

(1929). After its publication, Daniels and Ward gave me assistants.

- 644-695 Brownfield Woods. Surveys and acquisition. Straighten out title with Sveinbjorn Johnson. Received \$10,000 from President A.C. Willard. I had sent several written requests to him.
- 696-737 Prairie tract added to Trelease Woods; funds provided by University Research Board. Clean hedge rows.
- 738-751 World War II teaching.
- 752-784 The Ecology of North America has already produced \$1,300 in royalties.
- 785-795 World War I teaching.
- 796- University did not get buildings in the 1930's because the administration didn't want to take Roosevelt's money. David Kinley.

Ecological Succession and Physiological Geography, reprints by V.E. Shelford, 1911-12

Trip Notes, 1929, 1936

Accession Records, 1913-32

1925-31, 1942, 1945-46

Locations and Insect Collections, 1942-45

Ecology - Invertebrates; Collection Data Southern Oak-Hickory, 1942-45

Taxonomic Data

Ants, Tropical

Aphids

Beetles

Butterflies

Centipede, Millipede

Cicadas

Collembola

Crustacea

Crane Flies

Earth Worms

Fish

Flies

Fulgorids

Harvestmen

Hemiptera

Hymenoptera (Formicidae)

Mollusks, Tropical

Orthoptera

Spiders

Termites

Tree Hoppers

Wasps

Box 4:

Bulletin of Illinois State Laboratory of Natural History contributions by Shelford, 1917-1932

Scientific contribution by Shelford - reprints - 4 volumes., 1906-46

Scientific contributions by Shelford's students - reprints - 5 volumes, 1912-46

Animal Communities in Temperate America (1913)

Box 5:

The Ecology of North America (1963)

Reprints of 63 articles, 1913-19

Box 6:

Research notes of Victor Shelford (received from Natural History Survey), March 6, 1967

Journal Publication Reprints, 1920-55 (2 folders)

Small Box A:

Colorado Desert; shrubs, 1944
Kendeigh Collections, 1944
Quebec, West Virginia, Kentucky, 1944
Texas - Mexico, 1942-44
Illinois, 1944
Milford, Utah, 1944
White Rock Mountains, Arkansas, 1944
Western Indiana, 1944
Mesa Verde Park, Colorado, 1944
Coniferous Forest, Alaska, 1926
Milford, Utah, 1945
Valentine, Nebraska, 1945
Ellensburg, Washington, 1945
Moran, Wyoming, 1945
McMinville, Oregon, 1945
Odell Lake, Oregon, 1945
Yakima Park, Washington, 1945
South Fulton, Tennessee, 1947
Reelfoot Lake, 1949, 1952

Small Box B:

Magnolia Bay, Florida, 1942
Reelfoot Lake, Tennessee, 1943, 1949, 1944, 1933
Coleopteral Collected on Reelfoot Lake, April 1949, 1943, 1944, 1947
Tropical Florida, 1942-43
 Description of vegetation
Atlanta, Athens, Georgia, 1942, 1943, 1945, 1944
Henderson, Texas, 1942
Mexico, Texas, 1943-44
Liptonville, Tennessee, 1947, 1944
Mountain Lake, Virginia, 1943
Arkansas, 1943
Urania, Louisiana, 1943
North Carolina, 1943
Illinois, 1943

Carter Cave, Kentucky, 1943
 Halam, Texas, 1943
 Rochester, Wyoming, 1943
 Marienville, Pennsylvania, 1943
 Determinations for Dr. V.E. Shelford, 1943, 1946, 1949, 1947
 Report listing identifications for insects and mites
 Field Notes, 1942-45
 Description of locality, stratum and community of trees, grasses and other
 members of the Botanical Kingdom

Box 7:

Small Box C:

Amphibians - V.E. Shelford, 1942-45
 Annelida, 1945
 Ants - V.E. Shelford, 1927, 1931, 1933, 1942-45
 Identification:
 1) scientific name
 2) locality
 3) date
 4) nature of habitat
 Ant Determination, 1942-43
 Beetles, 1927, 1931, 1933, 1942-45
 Coleoptera, determination
 Centipedes - V.E. Shelford, 1943-45
 Chermids, 1943
 Chironomids Culicids, 1942-45, 1939
 V.E. Shelford, Acting Head of the Zoology Department
 Collembola, 1942-43
 Crustacea, 1942-45
 Amphidpoda, Decapods and isopods
 Deptera, 1925-45
 Fish, 1942-45
 Hemiptera, 1928-47
 Homoptera, 1925-47
 Larvae, 1942-46
 Lepidoptera, Beetles, Deptera, Numphalids, Elaterids, Mayfly Nymphs, Caddis
 Fly Larvae
 Leeches, 1939-45
 Lepidoptera, 1927-43
 Mammals, 1932
 Colorado Mammals
 Millipeds, 1942-48
 Scorpions, Ticks

Mollusca, Identification of, 1942-47

 Snails, Terrestrial Pulmonates and Slugs, and Aquatic Pulmonates

Neuroptera, 1943-44

Orthoptera, 1942-48

 Determined for Dr. V.E. Shelford, October 1947 - March 1948; 1942-47

Plankton, 1942

Phalangids, 1943-45

Psocids, 1943-44

Reptiles, 1942-45

Sawflies, 1931-32, 1944-46

Spiders, 1931-32, 1942-47

 Found at New Mexico and south Texas

Scorpions, 1943-45

Termites, 1943-45

Thysanura, 1943

 Sawflies belonging to the family Tenthredinidae (as identified by Herbert H. Ross, a Systematic Entomologist)

Small Box D:

Ecological Notes: description of mountainous habitats in relation to the plant and animal world, 1910

Woodchuck in thicket below glacier, Alpine Steppe, as observed in Canada, South Dakota, Nebraska: conifers on mountains, cottonwoods in sort of savannah on stream, 1914-18

Entomological Notes, 1925

Coniferous forest, mixed shrubs, natural prairies; British Columbia - topography, 1926

General Vegetation, 1927

Great Plains Grassland, Marmouth, North Dakota: grasshoppers, good mixed prairie, 1928-29

British Columbia Grassland: topographical and ecological notes, 1930

Low Tundra: Mosquitoes (Scientific name, common name and field notes), Churchill region, mountains - Pikes Peak, Alpine meadow: entomological notes, 1931

Tundra, Diptera, Hymenoptera, and Homoptera: Churchill, Manitoba, 1932-34

Chaparral between grassland and forest, Beetles, Ants and Grasshoppers: Rocky Mountain, Colorado, 1936

Dense Vegetation: Deer, Jaguar, and Honey Bear - Mexico, 1938.

Grass and Forest Vegetation: ecological notes, 1941

Deciduous Forest Climes: entomology and vegetation, 1942

Grassland, tropical and deciduous forest on climax soil: Mexico, 1943

Fulgarids, Cicadas: determination and locality. Tree Hoppers and Diptera, 1944

Plants: identification, locality, 1945

Sulondaue: Scientific name. Leaf Hoppers: Scientific names and locality found, 1947

Box 8:

Shelford Books donated November, 1996 by former a Shelford student, Stanley I. Auerbach of Oak Ridge, Tennessee:

Naturalist's Guide to the Americas (1926)

Laboratory and Field Ecology (1930)

Animal Communities in Temperate America, Second Edition (1937)

Bio-Ecology, with Frederic E. Clements (1939)

Shelford Photographs donated April, 2006 by Robert A. Croker as used in Croker's biography

Pioneer Ecologist-The Life and Works of Victor Ernest Shelford, 1877-1968