

**PROCEEDINGS OF THE  
BIOLOGICAL SOCIETY OF  
WASHINGTON, VOL.  
XXVIII, 1915**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649681242

Proceedings of the Biological Society of Washington, Vol. XXVIII, 1915 by Biological Society of Washington

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd.  
Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

[www.triestepublishing.com](http://www.triestepublishing.com)

**BIOLOGICAL SOCIETY OF WASHINGTON**

**PROCEEDINGS OF THE  
BIOLOGICAL SOCIETY OF  
WASHINGTON, VOL.  
XXVIII, 1915**



---

1915 23 1916

PROCEEDINGS

OF THE

Biological Society of Washington

---

VOLUME XXVIII

1915

---

WASHINGTON  
PRINTED FOR THE SOCIETY

A

315  
32  
3/18/28

COMMITTEE ON PUBLICATIONS

N. HOLLISTER, *Chairman*

W. L. McATEE

WELLS W. COOKE

PRINTED BY  
H. L. & J. B. McQUEEN, INC.  
WASHINGTON, D. C.

OFFICERS AND COUNCIL  
OF THE  
BIOLOGICAL SOCIETY OF WASHINGTON  
For 1918

---

(ELECTED DECEMBER 12, 1914)

---

OFFICERS

*President*

PAUL BARTSCH

*Vice-Presidents*

W. P. HAY  
J. N. ROSE

A. D. HOPKINS  
MARY J. RATHBUN

*Recording Secretary*

MARCUS W. LYON, JR.

*Corresponding Secretary*

W. L. McATEE

*Treasurer*

WELLS W. COOKE

COUNCIL

VERNON BAILEY  
FREDERICK V. COVILLE\*  
WILLIAM H. DALL\*  
B. W. EVERMANN\*  
J. W. GIDLEY  
N. HOLLISTER  
L. O. HOWARD\*  
FRANK H. KNOWLTON\*

F. A. LUCAS\*  
C. HART MERRIAM\*  
E. W. NELSON\*  
T. S. PALMER\*  
WILLIAM PALMER  
HUGH M. SMITH  
L. STEJNEGER\*  
GEORGE M. STERNBERG\*

DAVID WHITE\*

---

STANDING COMMITTEES—1918

*Committee on Communications*

WILLIAM PALMER, *Chairman*

A. D. HOPKINS  
LEWIS RADCLIFFE  
H. H. BARTLETT

C. V. PIPER  
EDWIN KIRK  
ALBY WETMORE

*Committee on Publications*

N. HOLLISTER, *Chairman*

W. L. McATEE

WELLS W. COOKE

---

\* Ex-Presidents of the Society.

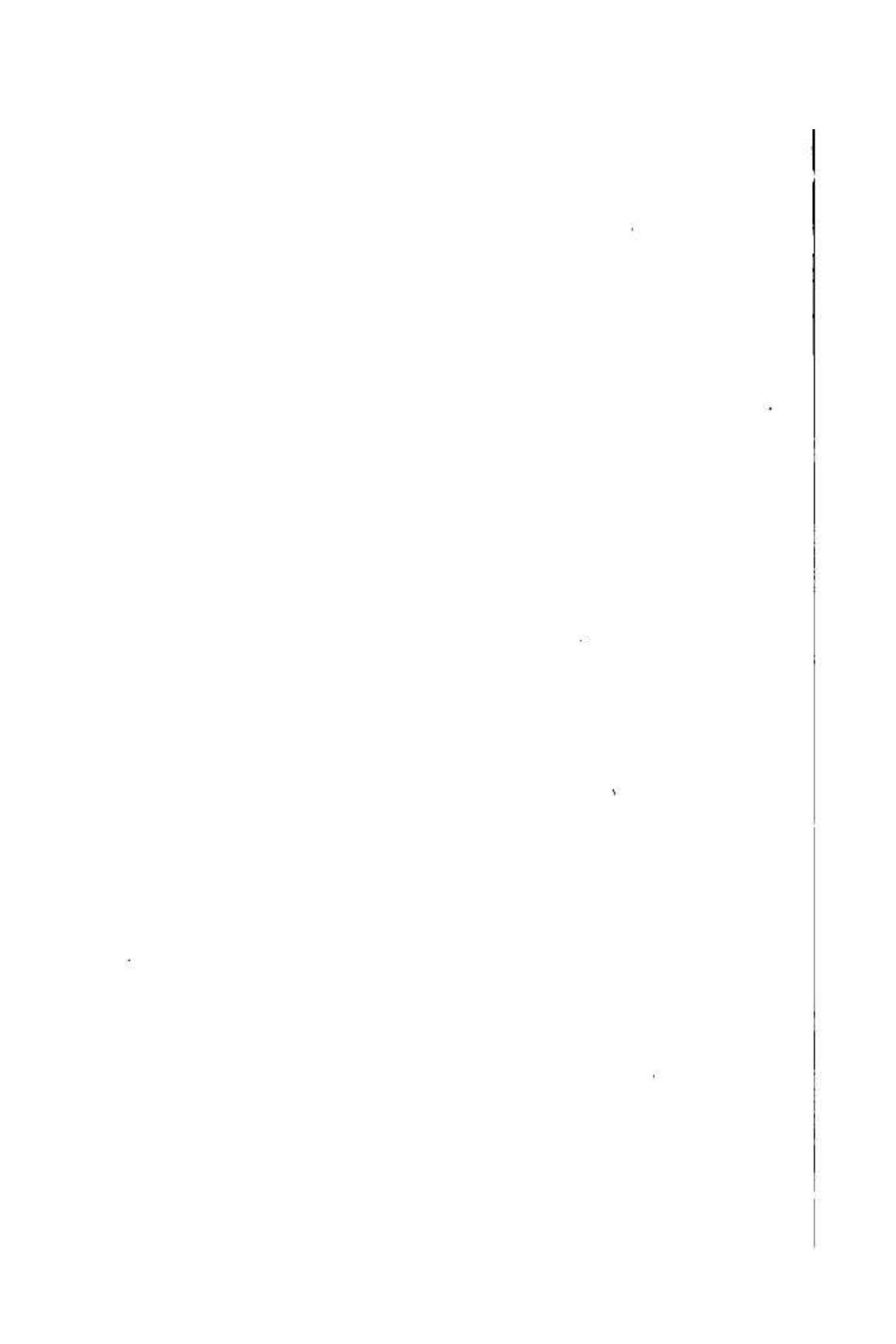
EX-PRESIDENTS  
OF THE  
BIOLOGICAL SOCIETY OF WASHINGTON

- \* THEODORE N. GILL, 1881, 1882
- \* CHARLES A. WHITE, 1883, 1884
- \* G. BROWN GOODE, 1885, 1886
- WILLIAM H. DALL, 1887, 1888
- \* LESTER F. WARD, 1889, 1890
- C. HART MERRIAM, 1891, 1892
- \* C. V. RILEY, 1893, 1894
- \* GEO. M. STERNBERG, 1895, 1896
- L. O. HOWARD, 1897, 1898
- FREDRICK V. COVILLS, 1899, 1900
- F. A. LUCAS, 1901, 1902
- B. W. EVERMANN, 1903, 1904
- F. H. KNOWLTON, 1905, 1906
- L. STEINER, 1907, 1908
- T. S. PALMER, 1909, 1910
- DAVID WHITE, 1911
- E. W. NELSON, 1912, 1913

---

\* Deceased.





PROCEEDINGS  
OF THE  
BIOLOGICAL SOCIETY OF WASHINGTON

---

PROCEEDINGS.

---

The Society meets in the Assembly Hall of the Cosmos Club on alternate Saturdays at 8 P. M.

**January 9, 1915—533d Meeting.\***

President Paul Bartsch in the chair and 40 persons present.

Dr. L. O. Howard made remarks on meetings of the American Association for the Advancement of Science lately held in Philadelphia.

Dr. H. A. Pilsbry discussed certain aspects of Hawaiian land shell problems.

The regular program consisted of three communications, as follows:

"An Unknown Fossil"; William Palmer.

"An Albino Diamond-back Terrapin"; W. P. Hay.

"Notes on the Physiology of Bats"; M. W. Lyon, Jr.

**January 23, 1915—534th Meeting.†**

President Bartsch in the chair and 75 persons present.

Dr. Johan Hjort, Director of Fisheries of Norway, discussed Norwegian herring catches.

Lantern slides on biological subjects were exhibited by W. W. Cooke, Hugh M. Smith, William Palmer, and Paul Bartsch.

The regular program consisted of a single paper, as follows:

"Developing Instincts of a Young Squirrel"; Agnes Chase.

\* Abstracts of papers in *Journ. Washington Acad. Sci.*, Vol. 5, pp. 280-291, April 19, 1915; and in *Science*, N. S., Vol. 41, p. 477, March 26, 1915.

† Abstracts in *Journ. Washington Acad. Sci.*, Vol. 5, pp. 280-291, April 19, 1915; and in *Science*, N. S., Vol. 41, p. 478, March 26, 1915.

**February 6, 1915—535th Meeting.\***

Vice-President A. D. Hopkins in the chair and 35 persons present.

Dr. B. H. Ransom called attention to a new biological journal devoted to animal parasites.

Prof. W. W. Cooke read a brief letter from Dr. B. W. Evermann of San Francisco.

The program consisted of two communications, as follows:

"Remarks on the Rate of Growth of Stony Corals"; T. Wayland Vaughan.

"Botanical Explorations in South America"; J. N. Rose.

**February 20, 1915—536th Meeting.†**

President Bartsch in the chair and 65 persons present.

Gen. T. E. Wilcox made inquiries concerning the color of the eyes of certain turtles.

Dr. L. O. Howard discussed the mosquito campaign in New Jersey.

Mr. William Palmer exhibited the tip of the tongue of a sulphurbottom whale.

One communication was presented for the regular program;

"A Naturalist in Nevada"; H. C. Oberholser.

**March 6, 1915—537th Meeting.‡**

Ex-President Leonhard Stejneger in the chair and 60 persons present.

Prof. A. S. Hitchcock called attention to the preparation of a new Flora of the District of Columbia.

Two communications were presented:

"Notes on the Possible Origin of the Bears"; J. W. Gidley.

"The Evolution of the Horse"; H. K. Bush-Brown.

**March 20, 1915—538th Meeting.§**

President Bartsch in the chair and 45 persons present.

\* Abstracts in Journ. Washington Acad. Sci., Vol. 5, pp. 291-292, April 19, 1915; and in Science, N. S., Vol. 41, p. 561, April 9, 1915.

† Abstracts in Journ. Washington Acad. Sci., Vol. 5, p. 292, April 19, 1915; and in Science, N. S., Vol. 41, p. 562, April 9, 1915.

‡ Abstracts in Journ. Washington Acad. Sci., Vol. 5, pp. 333-384, May 4, 1915; and in Science, N. S., Vol. 41, p. 597, April 16, 1915.

§ Abstracts in Journ. Washington Acad. Sci., Vol. 5, pp. 334-385, May 4, 1915; and in Science, N. S., Vol. 41, p. 664, April 30, 1915.