

# THE BIOLOGICAL BULLETIN

PUBLISHED BY  
THE MARINE BIOLOGICAL LABORATORY

## Editorial Board

GARY N. CALKINS, Columbia University  
E. G. CONKLIN, Princeton University  
E. N. HARVEY, Princeton University  
SELIG HECHT, Columbia University  
LEIGH HOADLEY, Harvard University  
M. H. JACOBS, University of Pennsylvania  
H. S. JENNINGS, Johns Hopkins University

E. E. JUST, Howard University  
FRANK R. LILLIE, University of Chicago  
CARL R. MOORE, University of Chicago  
GEORGE T. MOORE, Missouri Botanical Garden  
T. H. MORGAN, California Institute of Technology  
G. H. PARKER, Harvard University  
EDMUND B. WILSON, Columbia University

ALFRED C. REDFIELD, Harvard University  
*Managing Editor*

VOLUME LXXV  
AUGUST TO DECEMBER, 1938

Printed and Issued by  
LANCASTER PRESS, Inc.  
PRINCE & LEMON STS.  
LANCASTER, PA.