

JOURNAL OF ANIMAL SCIENCE

Wilson G. Pond, *Editor-in-Chief* (1978)*
Claude J. Cruse, *Business Manager*
Bernice Wilson, *Editorial Assistant*

SECTION EDITORS

Lowell T. Frobish, *Applied Animal Science* (1978)
Curtiss Bailey, *Breeding and Genetics* (1978)
R. A. Merkel, *Meat Science and Muscle Biology* (1976)

H. F. Hintz, *Nonruminant Nutrition* (1977)
F. Stormshak, *Physiology and Endocrinology* (1977)
Fredric N. Owens, *Ruminant Nutrition* (1978)

EDITORIAL BOARD

Elton D. Aberle (1977)
C. B. Ammerman (1976)
W. B. Anthony (1976)
C. Robert Ashmore (1977)
J. M. Asplund (1977)
K. M. Barth (1977)
Fuller W. Bazer (1977)
Werner G. Bergen (1977)
D. L. Black (1976)
C. C. Brooks (1976)
Lauren L. Christian (1976)
Edward M. Convey (1977)
Gary L. Cromwell (1976)
Larry V. Cundiff (1978)
P. J. Cunningham (1977)

Paul V. Fonnesebeck (1978)
B. G. Harmon (1978)
H. W. Hawk (1977)
B. E. Howland (1978)
Clarence V. Hulet (1976)
Lawrence A. Johnson (1978)
R. P. Kromann (1978)
D. H. Kropf (1976)
D. C. Mahan (1978)
D. N. Marple (1978)
Roy J. Martin (1978)
Jay C. Meiske (1977)
E. A. Ott (1977)
Fredric N. Owens (1976)
A. Z. Palmer (1976)
Ernest R. Peo, Jr. (1976)

T. S. Rumsey (1978)
Jack J. Rutledge (1977)
H. F. Schryver (1978)
H. L. Self (1978)
G. S. Smith (1978)
Charles J. Sniffen (1978)
Lloyd V. Swanson (1978)
David G. Topel (1978)
Robert Totusek (1978)
Philip R. Utley (1978)
Trygve L. Veum (1977)
Donald G. Wagner (1976)
Richard C. Wahlstrom (1977)
Kenneth E. Webb, Jr. (1977)
Charles O. Woody (1976)

*Terms expire on December 31 of year indicated.

OFFICERS OF THE AMERICAN SOCIETY OF ANIMAL SCIENCE

Thomas B. King, *President*
Virgil W. Hays, *President-Elect*
C. J. Kercher, *Secretary-Treasurer*
T. J. Marlowe, *Past-President*
A. P. Raun, *Director-at-Large*
J. L. Williamson, *Director-at-Large*
R. M. Luther, *Midwestern Director*

B. N. Day, *Midwestern Director*
R. R. Oltjen, *Northeastern Director*
K. L. Dolge, *Northeastern Director*
R. L. McGuire, *Southern Director*
J. J. Guenther, *Southern Director*
T. R. Greathouse, *Western Director*
R. L. Preston, *Western Director*

Membership. Application is invited from persons with interest in animal science and livestock production. Annual dues in the Society, which includes the *Journal of Animal Science*, are \$20.00 in U.S. and Canada, \$20.50 in rest of North and South America and \$21.00 in other countries. Student Affiliate Membership to those who are certified by a Professional member as a regularly enrolled college student who does not hold a full-time position at the time of application for, or annual renewal of, affiliate membership, \$10.00 annually which includes receipt of the *Journal of Animal Science*. Institutional members (including receipt of the *Journal of Animal Science*) \$40.00 per year. Applications for membership with remittance should be mailed to the Business Manager, A.S.A.S., 113 North Neil Street, 311 Illinois Building, Champaign, IL 61820.

Address Change and Missing Copies. Notice of change in address should be received by the Business Manager in advance of change. Claims for missing copies should be received within 30 days (90 days foreign) of publication date to insure replacement copies at no charge.

Manuscripts. Address manuscripts and correspondence concerning them to the Editor-in-Chief Wilson G. Pond, Department of Animal Science, Cornell University, Ithaca, NY 14853. At least one of the authors of a manuscript must be a member of the Society. Publication of papers by nonmembers requires the approval of the Executive Committee. See "Information for Contributors" on back cover and "Style and Form for Journal of Animal Science" in *J. Anim. Sci.* 39:1240, 1974, for the standard requirements for Journal papers.

Reprints. Reprints of papers in the Journal are obtainable only from the authors or their institutions. Authors of papers accepted for publication are required to make a minimal purchase of 100 reprints.

News and Notes. Announcements about meetings, personnel changes and other items of interest to the Society may be sent directly to the Editor.

Second-class postage paid at Champaign, IL 61820 and at additional mailing offices.

Copyright 1976 by American Society of Animal Science. Printed in U.S.A. All rights reserved.

Reproduction in part or whole prohibited.

Boyd Printing Company, Inc., 49 Sheridan Avenue, Albany, NY 12210