

SECTION EDITORS

- C. Eugene Allen, *Meat Science; Growth and Developmental Biology* (1985)
Floyd M. Byers, *Ruminant Nutrition* (1984)
Steven L. Davis, *Physiology and Endocrinology; Growth and Developmental Biology* (1983)
Thomas G. Dunn, *Applied Animal Science* (1985)
William D. Hohenboken, *Breeding and Genetics; Behavior* (1984)
Lynn B. Willett, *Pharmacology and Toxicology* (1983)
Dean R. Zimmerman, *Nonruminant Nutrition* (1983)

EDITORIAL BOARD

- | | | |
|-----------------------------|----------------------------|----------------------------|
| Don C. Adams (1984) | Paul G. Harms (1984) | Gordon D. Niswender (1985) |
| Ronald E. Allen (1985) | Maynard G. Hogberg (1985) | David R. Nottèr (1983) |
| David R. Ames (1984) | J. W. Holloway (1984) | Edgar A. Ott (1985) |
| David B. Anderson (1983) | Floyd P. Horn (1983) | James E. Pettigrew (1985) |
| Gary B. Anderson (1983) | J. E. Huston (1983) | William D. Price (1984) |
| Lloyd L. Anderson (1984) | A. B. Johnson (1985) | Edward C. Prigge (1984) |
| W. Dwight Armstrong (1985) | D. E. Johnson (1985) | Vernon G. Pursel (1984) |
| Fuller W. Bazer (1983) | Curtis L. Kastner (1984) | James O. Reagan (1985) |
| Donald H. Beermann (1983) | Brian W. Kennedy (1983) | Jerry J. Reeves (1984) |
| Donald C. Beitz (1983) | Dona L. Kern (1984) | C. Reed Richardson (1983) |
| James A. Boling (1984) | Robert M. Koch (1983) | Max F. Rothschild (1984) |
| Douglas J. Bolt (1984) | Ling-Jung Koong (1984) | J. R. Russell (1985) |
| Glen A. Broderick (1985) | E. T. Kornegay (1984) | Joseph G. Sebranek (1984) |
| J. G. Buchanan-Smith (1984) | Robert R. Kraebling (1983) | H. L. Self (1984) |
| Richard C. Bull (1985) | Daryl L. Kuhlers (1984) | P. L. Senger (1983) |
| Will T. Butts, Jr. (1984) | Ronald P. Lemenager (1983) | Lee R. Shull (1983) |
| S. W. Coleman (1985) | Austin J. Lewis (1983) | G. Stanley Smith (1985) |
| Robert J. Collier (1985) | Hagen Lippke (1983) | Edward L. Squires (1983) |
| Larry R. Corah (1985) | Keith S. Lusby (1983) | Tim S. Stahly (1983) |
| Steven G. Cornelius (1983) | James R. Males (1984) | Norman C. Steele (1984) |
| John D. Crouse (1983) | John A. Marchello (1984) | Marshall D. Stern (1984) |
| Larry W. De Goey (1984) | Dennis N. Marple (1983) | Alan L. Sutton (1985) |
| Robert A. Easter (1985) | B. Bruce Marsh (1985) | Richard H. Teske (1983) |
| Calvin L. Ferrell (1983) | Henry F. Mayland (1985)* | David L. Thomas (1985) |
| Stephen P. Ford (1983) | Harry J. Mersmann (1985) | Michael L. Thonney (1984) |
| Richard R. Frahm (1984) | Larry A. Muir (1984) | Leland F. Tribble (1984) |
| M. L. Galyean (1983) | | J. T. Yen (1984) |

*Terms expire on December 31 of year indicated

OFFICERS AND DIRECTORS OF THE AMERICAN SOCIETY OF ANIMAL SCIENCE

- | | | |
|---|---|--|
| W. N. Garrett, <i>President</i> | C. J. Cruse, <i>Executive Secretary</i> | L. S. Bull, <i>Northeast Director</i> |
| I. T. Omtvedt, <i>President-Elect</i> | B. G. Harmon, <i>Director-at-Large</i> | W. G. Luce, <i>Southern Director</i> |
| C. B. Theurer, <i>Secretary-Treasurer</i> | J. W. Algeo, <i>Director-at-Large</i> | C. B. Ammerman, <i>Southern Director</i> |
| F. Stormshak, <i>Editor-in-Chief</i> | W. R. Woods, <i>Midwestern Director</i> | J. D. Wallace, <i>Western Director</i> |
| R. R. Oltjen, <i>Past-President</i> | L. R. Corah, <i>Midwestern Director</i> | R. W. Wright, Jr., <i>Western Director</i> |
| | J. G. Welch, <i>Northeast Director</i> | |

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 \$35.00. 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, \$17.50 annually which includes receipt of the *Journal of Animal Science*. Institutional members (including receipt of the *Journal of Animal Science*), \$55.00 per year. Applications for membership with remittance should be mailed to the Executive Secretary, ASAS, 309 West Clark Street, Champaign, IL 61820.

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

Manuscripts. Address manuscripts and correspondence concerning them to the Editor-in-Chief Fred Stormshak, Department of Animal Science, Oregon State University, Corvallis, OR 97331. 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" at the back of the journal and "Style and Form for Journal of Animal Science" in *J. Anim. Sci.* 53:845, 1981, for the standard requirements for journal papers. Authors are requested to designate in which section of the journal they prefer to have their manuscript considered for publication.

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, personal changes and other items of interest to the Society may be sent directly to Fred Stormshak, Department of Animal Science, Oregon State University, Corvallis, OR 97331.

Journal of Animal Science (ISSN 0021-8812) is published monthly by the American Society of Animal Science. Second-class postage paid at Champaign, IL 61820 and at additional mailing offices. Form 3579 to be returned to the American Society of Animal Science, 309 West Clark Street, Champaign, IL 61820. Copyright 1983 by American Society of Animal Science. Printed in USA. All rights reserved. Reproduction in part or whole prohibited. Boyd Printing Company, Inc., 49 Sheridan Avenue, Albany, NY 12210.