THE AMERICAN PHYTOPATHOLOGICAL SOCIETY

The APS Council

President, ALBERT R. WEINHOLD, University of California, Berkeley 94720
President-Elect, DON E. MATHRE, Montana State University, Bozeman 59717
Immediate Past President, ANNE K. VIDAVER, University of Nebraska, Lincoln 68583
Vice-President, PAUL H. WILLIAMS, University of Wisconsin, Madison 53706
Secretary, O. W. BARNETT, Clemson University, Clemson, SC 29631
Treasurer, H. RONALD CAMERON, Oregon State University, Corvallis 97331
Editor-in-Chief, APS Press, RICHARD W. SMILEY, Oregon State University, Pendleton 97801
Editor-in-Chief, PHYTOPATHOLOGY: D. MICHAEL BENSON, North Carolina State University, Raleigh 27695
Editor-in-Chief, PLANT DISEASE: C. WENDELL HORNE, Texas A&M University, College Station 77843

Councillors:
DOUGLAS P. MAXWELL, University of Wisconsin, Madison 53706 (At Large)
WILLIAM E. FRY, Cornell University, Ithaca, NY 14853 (At Large)
RANDALL C. ROWE, Ohio State University, Wooster 44691 (At Large)
JOSE AMADOR, Texas Agricultural Extension Service, Weslaco 78596 (Caribbean)
MEL LACY, Michigan State University, East Lansing 48823 (North Central)
DAVID R. HOUSTON, USDA Forest Service, Hamden, CT 06514 (Northeastern)
JOSEPH M. OGAWA, University of California, Davis 95616 (Pacific)
R. JAY STIPES, Virginia Tech, Blacksburg 24061 (Potomac)
JAMES M. MCGUIRE, Mississippi State University, Mississippi State 39762 (Southern)

Staff:
R. J. TARLETON, Executive Vice-President; STEVEN C. NELSON, General Manager; The American Phytopathological Society, 3340 Pilot Knob Road, St. Paul, MN 55121

Divisions of the Society

Caribbean: President, JOSÉ MANUEL DÍAZ, ICTA, Guatemala, Guatemala; Secretary-Treasurer, GUILLERMO E. GÁLVEZ, CIAT/IICA, Costa Rica
North Central: President, DONALD M. HUBER, Purdue University, W. Lafayette, IN 47907; Vice-President, WILLIAM WILLIS, Kansas State University, Manhattan, 66506; Secretary-Treasurer, CAROL E. WINDELS, University of Minnesota, N.W. Experiment Station, Crookston 56716
Northeastern: President, WILLIAM E. MACHARDY, University of New Hampshire, Durham 03824; Vice-President, GARY C. BERGSTROM, Cornell University, Ithaca, NY 14853; Secretary-Treasurer, DALE R. BERGDAHL, University of Vermont, Burlington 05405
Pacific: President, JOSEPH G. HANCOCK, Jr., University of California, Berkeley 94720; Vice-President, JOHN S. M. MIRCETICH, USDA/ARS, University of California, Davis 95616; Secretary-Treasurer, FRED A. GRAY, University of Wyoming, University Station 82071
Potomac: President, WILLIAM L. MACDONALD, West Virginia University, Morgantown 26506; Vice-President, ROBERT B. CARROLL, University of Delaware, Newark 19717; Secretary-Treasurer, SUZANNE HURTT, USDA-ARS, PGGI, Glenn Dale, MD 20769
Southern: President, KENNETH E. CONWAY, Oklahoma State University, Stillwater 74074; Vice-President, K. D. DICKERSON, Clemson University, Clemson, SC 29631; Secretary-Treasurer, C. LEE CAMPBELL, North Carolina State University, Raleigh 27695

Editorial and Business Staff

Publisher and Business Manager, R. J. TARLETON; Graphic Services Manager, STEVE KRONMILLER; Senior Technical Editor, VERA BAKER; Technical Editor, JEAN RICE; Editorial Assistant, KERRY MOORE FELSTUL; Editorial Records Coordinator, JANICE SAMPSON

Subscriptions: Communications should be addressed to The American Phytopathological Society, 3340 Pilot Knob Road, St. Paul, MN 55121. Nonmember subscription price: $165.00 per year domestic, $190.00 per year foreign (including Canada and Mexico). All prices include postage. Single current numbers (within 60 days of publication): $14.00. (Price of back volumes and separate numbers on request.) Airmail rates for delivery outside of North America quoted on request. Claims for copies lost in domestic mails must be received within 90 days of the date of issue; otherwise the replacement charge will be $14.00. Deliveries overseas are not guaranteed; foreign mailings are made at the subscriber's risk. No endorsement or any statement of claims made in advertisements is assumed by this journal or by The American Phytopathological Society. Membership in The American Phytopathological Society: Information concerning membership in The American Phytopathological Society and special publication rates for members are available from the business office of the Society.

Published monthly at The American Phytopathological Society
3340 Pilot Knob Road, St. Paul, MN 55121
(612) 454-7250

Second class postage paid at St. Paul, MN. PUB 431540

Copyright © 1988 by The American Phytopathological Society, 3340 Pilot Knob Road, St. Paul, MN 55121.
Manuscripts may be submitted for consideration of publication in Phytopathology by members of The American Phytopathological Society and by nonmembers. Membership in the Society is not a prerequisite for publication in the journal, but page charges are higher for nonmembers than for members.

Submission of manuscripts: Submit all new manuscripts to The American Phytopathological Society, Editorial Office, 3340 Pilot Knob Road, St. Paul, MN 55121. Do not submit new manuscripts to the Editor-in-Chief. Submission implies nonsubmission elsewhere and (if accepted) no publication elsewhere in the same form without consent.

Content: Contributions should fall into the following categories: 1) Original research on some aspect of plant pathology or brief accounts of techniques or phytopathological history of general importance. Subject matter is not a criterion for judging the merit of an article for publication in Phytopathology. It is, however, the author's duty to establish relevancy to the science of plant pathology. 2) Review papers developing a new concept, hypothesis, theory, or other integration of plant pathology. 3) Letters to the Editor: These may explain, amplify, or otherwise comment upon research published in the journal or elsewhere. Letters to the editor are reviewed in the same manner as other contributions, and the Editorial Board reserves the right to reject or to publish letters of rebuttal when appropriate. If possible, the opportunity will be provided for a letter of rebuttal to appear in the same issue as the letter to which it is directed.

Page charges: Because of the high cost of publishing articles in Phytopathology, payment of page charges is mandatory. Page charges are subject to change and will not be finalized until an author receives galley proofs. Current charges are $85 per printed page for members of the Society and $150 per printed page for nonmembers. Authors who submit manuscripts satisfactorily prepared for OCR-electronic processing will receive a decrease of $25 per printed page. An author will be billed after the article is printed in the journal. A letter confirming that the author or the author's institution, company, or research sponsor will honor the page charges must accompany each manuscript submitted.

Separates: No free copies supplied. Reprints will be available at a nominal cost; an estimate will be sent with proof. Orders for reprints must be received within the year after publication of an article.

For style details, follow: Author's Guide for Manuscript Preparation, Phytopathology 78:4-6, 1988. Authors are urged to have one or more colleagues read the manuscript critically prior to submission.

Use of material from this journal: Phytopathology is copyrighted, and those who wish to use illustrations or data appearing in Phytopathology in other publications should obtain the permission from The American Phytopathological Society and the author of the paper and provide a line crediting Phytopathology as the source of the material. Authorization to photocopy copyrighted material for internal or personal use, or the internal or personal use of specific clients, is granted by The American Phytopathological Society for libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the base fee of $3.00 per copy of an article is paid directly to CCC, 21 Congress St., Salem, MA 01970. 0031-949X/87 $3.00 + .00

PHYTOPATHOLOGY for February (127-252) was issued 24 February 1988.