Keith Moser, CF, moserk@safnet.org

anaging Editor atthew Walls, wallsm@safnet.org

anley T. Asah, recreation • Keith A. Blatner, education & onley I. Asah, recreation • Keith A. Blatner, education a mmunication • Don Bragy, forest ecology • Stephen Bratk-ich, utilization & engineering • Russell Briggs, CF, soils & drology • Dean Coble, measurement • Dean Current, intertional forestry • Robert Deal, silviculture • John Groninger, viculture • Sean Healey, geospatial technologies • Shibu se, forest ecology • Michael Kilgore, economics • Mee-Sook m, entomology & pathology • Jeffrey Kline, economics • Mee-Fork Waters, silviculture • David Kulhavy, entomology & thology • James G. Lewis, history • Valerie Lüzadis social ren Kuers, silviculture • David Kulhavy, entomology & thology • James G. Lewis, history • Valerie Lüzadis, social ences • Michael G. Messina, silviculture • Cassandra Mosey, policy • Michael J. Mortimer, policy • David Nowak, urban community forestry • Jay O'Laughlin, policy • Brian Oswald, e • John G. Peden, recreation • Barry Rosen, international restry • Kevin Russell, wildlife management • Terry Sharik, uration & communication • John Show, silviculture • Susan word, social sciences • Thomas A. Waldrop, fire • Patephens Williams, human dimensions • Michael Wing, ospatial technologies

ook Review Editor mes E. Coufal, wanakena@windstream.net

anuscript Manager da Edelman, edelmanl@safnet.org

oduction Editor

nthia Owens, Cynthia.Owens@cenveo.com

blisher chael T. Goergen Jr., goergenm@safnet.org

r<mark>ector, Advertising</mark> ott Oser, osers@saf<u>net.org</u>

itorial Offices and Advertising Sales 00 Grosvenor Lane, Bethesda, MD 20814-2198 01) 897-8720 • fax (301) 897-3690 • www.safnet.org

rrespondence: Address all letters to the editor to Jour-l of Forestry Editor or e-mail journal@safnet.org. Adess correspondence relating to manuscripts to the Man-ing Editor. Address all advertising queries to the vertising Manager.

rmission to reprint: Individuals, and nonprofit librar-acting for them, may make fair use of the material in this rnal, for example, copying an article or portion of an icle for use in teaching or research. Individuals may also ote from the publication if the customary acknowledge-nt of the source accompanies the quotation. To request mission to make multiple or systematic reproductions or ublish material (including figures and article excerpts) stact the Copyright Clearance Center, Customer Service partment, 222 Rosewood Dr., Danvers, MA 01923; (978) D-8400; fax (978) 750-4470; www.copyright.com. A fee commercial use will be determined depending on use.

oscriptions: Subscription options and prices are avail-e at www.jofonline.org. Subscription price to members of Society of American Foresters is included in annual dues.

gle Issues: \$12 (individuals), \$24 (institutions). Con-tiournal@safnet.org to determine availability.

Journal of Forestry (ISSN 0022-1201) (IPM # 5308) is published in January/February, March, April/r, June, July/August, September, October/November, December by the Society of American Foresters, 5400 osvenor Lane, Bethesda, MD 20814-2198. ©2011 by Society of American Foresters. Periodicals postage paid Bethesda, MD, and at additional mailing offices. Printed

TMASTER: Send address changes to *Journal of Forestry,* 5400 svenor Lane, Bethesda, MD 20814-2198; journal@safnet.org.

10 FEV. 2012 Journal Bibliothèque

December 2011

Volume 109, Number 8

ARTICLES

policy

429 New Choices and Challenges for Regulated Private Forests: The "Alternate Plan" Option

R.S. Gootee, K.A. Blatner, M.S. Carroll, D.M. Baumgartner, and E.P. Weber

geospatial technologies

436 LiDAR as a Tool to Characterize Wildlife Habitat: California Spotted Owl Nesting Habitat as an Example

C. García-Feced, D.J. Tempel, and M. Kelly

economics

444 Regional Impacts of a Program for Private Forest Carbon Offset Sales D.M. Adams, R. Alig, G. Latta, and E.M. White

fire

454 What Is Limiting More Flexible Fire Management—Public or Agency Pressure? T.A. Steelman and S.M. McCaffrey

utilization & engineering

462 Applying Innovation Theory to Maine's Logging Industry I.J. Stone, J.G. Benjamin, and J. Leahy

DISCUSSION

Forest Carbon Offsets: Possibilities and Limitations 470

R. Sedjo and M. Macauley

473 Response: A Critique of "Forest Carbon Offsets: Possibilities and Limitations"

M.E. Harmon and O.N. Krankina

475 Response: Measurement, Monitoring, and Verification: Make It Work! C.M. Hoover

COMMENTARY

A Global View from the Deer Stand 479

A. Houston



esident

ger A. Dziengeleski, CF, Gansevoort, NY, rdziengeleski@ chpaper.com

ce-President William Rockwell Jr., CF/FCA, *St. Johns, MI,* rockwell@mich.com

i<mark>mediate Past-President</mark> chael B. Lester, CF, *Mechanicsburg, PA,* milester@state.pa.us

ecutive Vice-President and Chief Executive Officer chael T. Goergen Jr., Bethesda, MD, goergenm@safnet.org

bert L. Alverts, CF, Tigard, OR • Michael J. DeLasaux, Quincy, CA Mark P. Elliott, Daphne, AL • George F. Frame, CF, Bristol, NH • lest A. Houghton, Gladstone, MI • Kenneth W. Jolly, Annapolis, D • Charles W. Lorenz, CF, Turnwater, WA • Ian A. Munn, CF, ssssispip State, MS • G. Lynn Sprague, Garden City, ID • Thomas Straka, CF-FCA, Penalleton, SC • William David Walters, CF,

rest Science and Technology Board

nt W. Gottschalk, CF, chair • Andrew Sanchez Meador, forest
sources • William F. Elmendorf, nonindustrial forestry • Matthew
Broom, forest ecology & biology • David Shaw, forest manageent & utilization • Sayeed Mehmood, decision sciences • Phillip
north, social & related sciences • Paul F. Doruska, CF, northern
njonal representative • David B. South, southern regional repreentative • Guy Pinjuy, western regional representative

ouse of Society Delegates Lynn Burkett, *chair* • Andrew J. Hayes, CF, *vice-chair*

ational Office Department Directors
chael T. Goergen Jr., executive vice-president & chief executive
ficer • Jorge Esquerra, senior director, finance & administration
Louise Murgia, CF, senior director, field services • Matthew Walls,
nior director, publications • Christopher Whited, senior director,
urkeling & membership • Scott Oser, director, advertising • Carol
Redelsheimer, CF, director, science & education

SAF Mission
The Society of American Foresters (SAF) is the national scientific and educational organization representing the forestry profession in the United States. Founded in 1900 by Gifford Pinchot, it is the largest professional society for foresters in the world. The mission of the Society of American Foresters is to advance the science, education, technology, and practice of forestry; to enhance the competency of its members; to establish professional excellence; and, to use the knowledge, skills, and conservation ethic of the profession to ensure the continued health and use of forest resources and the present and future availability of forest resources to benefit society. SAF is a nonprofit organization resources to benefit society. SAF is a nonprofit organization meeting the requirements of 501 (c) (3). SAF members include natural resource professionals in public and private settings, researchers, CEOs, administrators, educators, and students.

SAF Core Values

l. Forests are a fundamental source of global health and human welfare,

2. Forests must be sustained through simultaneously meeting environmental, economic, and community aspira-tions and needs,

B. Foresters are dedicated to sound forest management and

conservation, and
Foresters serve landowners and society by providing sound knowledge and professional management skills.



DEPARTMENTS

427 Research in Review

428 Letters

477 Forestry Reports

599 Journal of Forestry Quiz

2011 PROCEEDINGS

483 Proceedings of the 2011 Society of American Foresters National Convention

> 485 Presentation Abstracts

557 Poster Abstracts

593 Proceedings Author Index

JoF FORESTRY

Editorial Policy

The Journal of Forestry welcomes scientific and editorial manuscripts that advance the profession of forestry by presenting significant developments and ideas of general interest to natural resource and forestry professionals. Articles published in the Journal present, in a readable style, new and state-of-the-art knowledge, research, practices, ideas, and policies. Mini-reviews on topics of special interests are also published at the discretion of the editorial board. Manuscripts must not have been published previously and must not be under consideration for publication elsewhere. Acceptance for publication is based on both editorial criteria and peer review. Manuscripts are evaluated for methodology, technical accuracy, breadth of appeal, clarity, contribution, and merit. The *Journal* reserves the right to publish countering or supplemental articles to promote discussion.

Submission Guidelines

Letters to the Editor—Letters should directly address ideas or facts presented in the Journal. Priority is given to letters no longer than 250 words that refer to material published within the past six months. Letters may be faxed to (301) 897-3690, attention Editor, e-mailed to journal@safnet.org, or mailed to Editor, Journal of Forestry, 5400 Grosvenor Lane, Bethesda, MD 20814-2198.

Exploring the Roots—These short introductions revisit seminal articles previously published by SAF and discuss topics of historical import to the field of forestry, as well as explore the historical basis for issues currently affecting forestry. Maximum length is 1,000 words. Proposals for Exploring the Roots columns may be e-mailed to journal@safnet.org, faxed to (301) 897-3690, attention Editor, or mailed to Editor, Journal of Forestry, 5400 Grosvenor Lane, Bethesda, MD 20814-2198.

Perspectives—These short opinion pieces are not formally reviewed but are evaluated for content and style by the editors and/or editorial board. Maximum length is 1,000 words. The contributor of a "Perspective" must be a member of the Society of American Foresters. Submit the manuscript, complete contact information, and a head-and-shoulders photograph online at www.rapidreview.com/SAF/author.html.

Full-Length Articles—Maximum length is 4,500 words, plus a 150-word abstract. Footnotes should be incorporated into the text wherever possible or be presented as endnotes. Full guidelines can be found online at www.jofonline.org. Submit your manuscript online at www.rapidreview.com/SAF/ author.html. Because the review process is double-blind, please ensure that authors are not identified anywhere in the manuscript (including running heads and feet).

Review Articles—Maximum length is 6,000 words, plus a 150-word abstract. Footnotes should be incorporated into the text wherever possible or be presented as endnotes. There is no limit to the number of literature citations in a review article. Full guidelines can be found online at www.jofonline.org. Submit your manuscript online at www.rapidreview.com/SAF/author.html. Because the review process is double-blind, please ensure that authors are not identified anywhere in the manuscript (including running heads and feet).