

**Editor**

Don C. Bragg, braggd@safnet.org

**Managing Editor**

Matthew Walls, wallsm@safnet.org

**Associate Editors**

Stanley T. Asch, *recreation* • Brett Butler, *human dimensions* • Dean Coble, *measurement* • Susan Day, *urban & community forestry* • Robert Deal, *CF, silviculture* • Kevin Dodds, *entomology* • Mark Eisenbies, *soils & hydrology* • John Graninger, *silviculture* • Tom Hammett, *forest products utilization & processing* • Michael Kilgore, *economics* • Jeffrey Kline, *economics* • Karen Kuers, *silviculture* • James G. Lewis, *history* • John Lundquist, *pathology* • Robert Loeb, *urban & community forestry* • Valerie Luzadis, *social sciences* • Michael G. Messina, *silviculture* • Cassandra Moseley, *policy* • Jay O'Laughlin, *policy* • Brian Oswald, *CF, fire* • John G. Peden, *recreation* • Scott Powell, *geospatial technologies* • Barry Rosen, *international forestry* • Kevin Russell, *wildlife management* • John Shaw, *CF, silviculture* • Robert Slesak, *soils & hydrology* • Kimberly Wallin, *entomology*

**Book Review Editor**

W. Keith Moser, moserk@safnet.org

**Manuscript Manager**

Linda Edelman, edelmanl@safnet.org

**Production Editor**

Tori Eaton, Tori.Eaton@cenveo.com

**Publisher**

Michael T. Goergen Jr., goergenm@safnet.org

**Advertising**

Christopher Whited, whitedc@safnet.org

**Editorial Offices and Advertising Sales**

5400 Grosvenor Lane, Bethesda, MD 20814-2198  
(301) 897-8720 • fax (301) 897-3690 • www.safnet.org

**Correspondence:** Address all letters to the editor to *Journal of Forestry* Editor or e-mail journal@safnet.org. Address correspondence relating to manuscripts to the Managing Editor. Address all advertising queries to the Advertising Manager.

**Permission to reprint:** Individuals, and nonprofit libraries acting for them, may make fair use of the material in this journal, for example, copying an article or portion of an article for use in teaching or research. Individuals may also quote from the publication if the customary acknowledgement of the source accompanies the quotation. To request permission to make multiple or systematic reproductions or republish material (including figures and article excerpts) contact the Copyright Clearance Center, Customer Service Department, 222 Rosewood Dr., Danvers, MA 01923; (978) 750-8400; fax (978) 750-4470; www.copyright.com. A fee for commercial use will be determined depending on use.

**Subscriptions:** Subscription options and prices are available at www.jofonline.org. Subscription price to members of the Society of American Foresters is included in annual dues.

**Single Issues:** \$30 (individuals), \$60 (institutions). Contact journal@safnet.org to determine availability.

The *Journal of Forestry* (ISSN 0022-1201) (IPM # 1115308) is published in January, March, May, July, September, and November, by the Society of American Foresters, 5400 Grosvenor Lane, Bethesda, MD 20814-2198. ©2013 by the Society of American Foresters. Periodicals postage paid at Bethesda, MD, and at additional mailing offices. Printed in the USA.

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

# Journal of FORESTRY

January 2013

Volume 111, Number 1

## EDITORS' NOTES

- 7 Standing on the Shoulders of Giants  
*D.C. Bragg*
- 8 A Brief History of the *Journal of Forestry*, and Sometimes You Need to Step Backward to Take a Step Forward  
*M. Walls*

## RESEARCH ARTICLES

### policy

- 11 Opportunities and Challenges for Integrating Bioenergy into Sustainable Forest Management Certification Programs  
*J. Gan and B. Cashore*
- 17 Where Is the Carbon? Carbon Sequestration Potential from Private Forestland in the Southern United States  
*C.S. Galik, B.C. Murray, and D.E. Mercer*

## REVIEW ARTICLE

### human dimensions

- 26 Opportunities for Enhancing Nontimber Forest Products Management in the United States  
*R.C. Vaughan, J.F. Munsell, and J.L. Chamberlain*

## RESEARCH ARTICLES

### education & communication

- 34 Identifying Appropriate Communication Means for Reaching Nonindustrial Private Forest Landowners  
*B.T. Kuipers, Shivan G.C., and K. Potter-Witter*
- 42 High School Forestry Education in the Pacific Northwest  
*A.A. Reeves and K.J. Wolf*

### fire

- 49 Quantifying the Potential Impacts of Fuel Treatments on Wildfire Suppression Costs  
*M.P. Thompson, N.M. Vaillant, J.R. Haas, K.M. Gebert, and K.D. Stockmann*



**President**  
Joann Meyer Cox, CF, FCA, Raleigh, NC [joann.cox@ca.pwc.com](mailto:joann.cox@ca.pwc.com)

**Vice-President**  
Dave Walters, CF, Murfreesboro, TN [dave.walters@tn.gov](mailto:dave.walters@tn.gov)

**Immediate Past-President**  
H. William Rockwell Jr., CF/FCA, St. Johns, MI [rockwell@mich.edu](mailto:rockwell@mich.edu)

**Executive Vice-President and Chief Executive Officer**  
Michael T. Goergen Jr., Bethesda, MD [goergenm@safnet.org](mailto:goergenm@safnet.org)

**Council**  
Robert L. Alverts, CF, Tigard, OR • Johnny A. Hodges, CF, Fort Collins, CO • Andrew J. Hayes, CF, Honeoye Falls, NY • Gregory A. Hoss, Dixon, MO • Ernest A. Houghton, Gladstone, MI • David S. Lewis, CF, Monticello, FL • J. Lopez, Palcoima, CA • Ian A. Munn, CF, Mississippi State, MS • Kim C. Steiner, CF, Boalsburg, PA • Thomas J. Straka, CF/FCA, Pendleton, SC • John T. Walkowiak, CF, Tacoma, WA

**Forest Science and Technology Board**  
Kurt W. Gottschalk, CF, chair • Andrew Sanchez Meador, forest resources • Brett J. Butler, nonindustrial forestry • Jeremy Stovall, forest ecology & biology • David Shaw, forest management & utilization • Sayeed R. Mehmood, CF, decision sciences • Taylor Stein, social & related sciences • Donald E. Howlett, CF, northern regional representative • Kenneth L. McNabb, southern regional representative • open, western regional representative

**House of Society Delegates**  
Donald L. Grebner, CF, chair • Anne Heissenbuttel, chair-elect

**National Office Department Directors**  
Michael T. Goergen Jr., executive vice-president & chief executive officer • Jorge Esquerro, senior director, finance & administration • Louise Murgia, CF, senior director, field services • Matthew Walls, senior director, publications • Christopher Whited, senior director, marketing & membership • Carol L. 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 ecosystems and the present and future availability of forest 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

1. Forests are a fundamental source of global health and human welfare,
2. Forests must be sustained through simultaneously meeting environmental, economic, and community aspirations and needs,
3. Foresters are dedicated to sound forest management and conservation, and
4. Foresters serve landowners and society by providing sound knowledge and professional management skills.



**SUSTAINABLE FORESTRY INITIATIVE** Certified Sourcing  
[www.sfipogram.org](http://www.sfipogram.org)  
SFI-00484

## PRACTICE OF FORESTRY

### forest ecology

- 59** Application of the Climate Action Reserve's Forest Project Protocol to a Longleaf Pine Forest under Restoration Management

*J.M. Remucal, J.D. McGee, M.M. Fehrenbacher, C. Best, and R.J. Mitchell*

## REVIEW ARTICLE

### measurement

- 67** Applying Lessons from the United States in Developing Canada's Forest Inventory: A Review

*J. Mirck and W.E. Mabey*

## EXPLORING THE ROOTS

- 75** Exploitation and Greed in Eastern Hardwood Forests

*Reviewed by J.E. Coufal*

## COMMENTARY

- 77** Let's Strengthen Forest Product Exports

*K. McNabb, C. Larsen, and M.S. Snow*

## DEPARTMENTS

- 5** Research in Review  
**10** Letters  
**79** Journal of Forestry Quiz

## Journal of 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](mailto: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](mailto: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](http://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](http://www.jofonline.org). Submit your manuscript online at [www.rapidreview.com/SAF/author.html](http://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](http://www.jofonline.org). Submit your manuscript online at [www.rapidreview.com/SAF/author.html](http://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).