United States Department of Agriculture

Forest Service

Engineering Staff

Washington, DC



Engineering Field Notes

Volume 34 January–June 2002

Engineering Technical Information System

Working Together	1
Alexander G. (Sam) Morigeau Deputy Director of Engineering	3
Infra To Celebrate 10th Anniversary and Launch Infra 5.0	4
Satellite Remote Sensing for the 2002 Winter Olympic Games	9
2001 Forest Service Engineer of the Year Awards	16
2001 <i>Engineering Field Notes</i> Article Award Nominations	36
Engineering Field Notes Guidelines for Authors	39

Engineering Field Notes Guidelines for Authors

Proposed articles should be submitted in double-spaced text in 10- or 12-point Arial or Helvetica type fonts, left-margin justified. To ensure that design layout conforms to USDA Forest Service publication standards, submit graphic elements, such as tables, charts, and photographs, as separate files. Submit manuscripts as Microsoft Word documents (either Macintosh or Windows format) on 3.5-inch floppies, Iomega products (ZIP 100), or recordable CDs, or send by e-mail.

When soliciting photographs for your document, encourage photographers to capture the sharpest image possible by moving close to the primary subject so that it fills at least three-quarters of the frame. Request vertical and horizontal photos of at least three different exposures for each subject to ensure maximum design flexibility. (For cameras without adjustable F-stop lens settings, use the +/- exposure adjustment for different exposures.)

Photographers must use digital cameras that provide print- or publication-quality images. Provide 1-megabyte. jpeg files (for electronic use) or 5-megabyte .tif files for print publications. Designers can convert jpegs into .tif files for professional page layout.

The use of Kodak photo CDs, agency-provided desktop scans, or images from online sources is not recommended. Such images often lack sufficient clarity (required minimum resolution is 300 dpi or dots per inch.) Internet photos generally have a resolution of only 72 dpi.

Provide sources for all photographs and secure written permission for the use of non-USDA Forest Service material. (Standard permission forms are available.) The EFN editor will clear all photographs through the USDA Forest Service—Office of Communication and USDA Photo Division.

Follow USDA guidelines on including photographs in your document. See www.usda.gov/agency/oc/design/ for current information.

bee www.usuu.gov/ ugeneg/ oc/ uesign/

- 1. **Slides** (originals or first-generation duplicates, preferably multiple frames of each subject) should be housed in a protected box or archival slide sheet.
- **2. Transparencies** (4 by 5 inches or larger, preferably multiple frames of each subject) should be housed in archival slide sheets.
- **3. Prints** (4 by 5 inches or larger, glossy finish, black-and-white format) are preferred for *Engineering Field Notes* and other one-color publications.

For additional information on preparing documents for the Engineering Management Series, contact Sandy Grimm, Engineering Publications, by phone 703-605-4503 or by e-mail:

SandraGrimm/WO/USDAFS@FSNOTES or sgrimm@fs.fed.us.



Engineering Field Notes

Administrative Distribution

The Series The Engineering Management Series is published periodically as a means for

exchanging engineering-related ideas and information on activities, problems encountered and solutions developed, and other data that may be of value to

engineers Servicewide.

Submittals Field personnel should send proposed articles for Engineering Field Notes (see

Guidelines for Authors on page 39) through their regional information coordinator for review by the regional office to ensure inclusion of information that is accu-

rate, timely, and of interest Servicewide.

Regional R-1 Marcia Hughey R-6 Cheryl Clark Information R-2 Acting, Veronica Mitchell R-8 Dick Jones Coordinators R-3 Marjorie Apodaca R-9 Cliff Denning Walt Edwards R-4 R-10 Aaron Weston Gwen Harris-Nishida R-5 WO Tom Moore

Inquiries

Regional information coordinators should send material for publication and direct any questions, comments, or recommendations to the following address:

USDA Forest Service Engineering Staff

ATTN: Sandy Grimm, Editor

Stop Code 1101

1400 Independence Avenue, SW Washington, DC 20250-1101

Telephone: 703-605-4503

E-mail: Sandra Grimm/WO/USDAFS@FSNOTES or sgrimm@fs.fed.us.

This publication is an administrative document that was developed for the guidance of employees of the U.S. Department of Agriculture (USDA) Forest Service, its contractors, and its cooperating Federal and State Government agencies. The text in the publication represents the personal opinions of the respective authors. This information has not been approved for distribution to the public and must not be construed as recommended or approved policy, procedures, or mandatory instructions, except for USDA Forest Service Manual references.

The USDA Forest Service assumes no responsibility for the interpretation or application of the information by other than its own employees. The use of trade names and identification of firms or corporations is for the convenience of the reader; such use does not constitute an official endorsement or approval by the United States Government of any product or service to the exclusion of others that may be suitable.

This information is the sole property of the United States Government with unlimited rights in the usage thereof and cannot be copyrighted by private parties.