



Minerals We Use Every Day: Mined from Our National Forests

TRAVELING EXHIBIT & VIRTUAL GALLERIES
INVITE VISITORS AND EDUCATIONAL GROUPS
TO DISCOVER

THE CONSERVATION LEGACY OF THE
U.S. FOREST SERVICE, PARTNERS, and COOPERATORS



Can you find the minerals used to make your camping gear?

Would you like to be a Forest Service Ranger?

Are you searching for a science fair project?

What does the Forest Service work with others to reclaim land and restore water ways?

Why Is There Silver In My Boots?

Mining occurs in nearly one out of three national forests and grasslands.

From gravel and gold to sand and silver, more than 50 minerals are mined for use in agriculture, construction, information technology, health care, transportation and the objects and tools of everyday use.

The Museum's new traveling exhibit and virtual galleries connect mining operations on our National Forest System lands with our use of minerals in everything from satellites that orbit the earth to the shoes on our feet.

Call to Action

Every year, 12.5 tons of new minerals are mined from the earth for each person in the United States.

Exhibit visitors are asked to consider what they do with objects made from minerals when they are broken, worn out or obsolete. Then they are encouraged to reduce, reuse and recycle.

Answer: Silver nanoparticles are used to coat the synthetic yarns of boots to reduce the growth of bacteria and fungi – and keep them from smelling. Silver is mined in six National Forests.

Our Traveling Exhibit

Connects minerals mined from National Forest System Lands with outdoor gear brought to national forest campsites.

Reveals the link between tools used by Forest Service employees and minerals mined from these public lands.

Shares 100 years of lessons learned in the restoration and reclamation of mined lands.

Illustrates how the Forest Service and its cooperators and partners are passing on this know-how to today's youth

Our Virtual Galleries

Explore Forest Service careers related to STEM education

Introduce the public to the words of wisdom of Theodore Roosevelt and Gifford Pinchot

Feature science fair projects linking field work with classroom study

Showcase how minerals dazzle society and serve as music to our ears

Recognize the role of public agencies, industry, community groups and the courts in mining operations

In Your Neck of the Woods

You are invited to co-host this exhibit at a visitor center, museum, educational institution or public facility. For reservations and information contact:

Dave Stack

Executive Director and Vice President
National Museum of Forest Service History

Missoula, MT

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Exhibit and Galleries
Highlight 34 National Forests

- ◇ Alabama National Forests, AL
- ◇ Beaverhead-Deerlodge, MT
- ◇ Black Hills, SD
- ◇ Chequamegon-Nicolet, WI
- ◇ Coronado, AZ
- ◇ Custer, MT
- ◇ Eldorado, CA
- ◇ Gifford Pinchot, WA
- ◇ Gila, NM
- ◇ Grand Mesa-Uncompahgre, CO
- ◇ Hiawatha, MI
- ◇ Helena, MT
- ◇ Humboldt-Toiyabe, NV
- ◇ Idaho Panhandle, ID
- ◇ Klamath, CA
- ◇ Lewis and Clark, MT
- ◇ Lincoln, NM
- ◇ Lolo, MT
- ◇ Mark Twain, MO
- ◇ Medicine Bow-Routt, WY/CO
- ◇ Mt. Baker-Snoqualmie, WA
- ◇ Malheur, OR
- ◇ Ouachita, AR
- ◇ Ottawa, MI
- ◇ Pike-San Isabel, CO
- ◇ San Bernardino, CA
- ◇ Shawnee, IL
- ◇ Siskiyou, OR
- ◇ Superior, MN
- ◇ Stanislaus, CA
- ◇ Tahoe, CA
- ◇ Tongass, AK
- ◇ Tonto, AZ
- ◇ Umatilla, OR

Co-Host Coordination

Outreach: Co-hosts are provided with a media release template. We rely on our co-hosts to announce the exhibit to their community. We welcome opportunities for co-hosts to link the exhibit to their education and interpretive program.

Evaluation: We request co-hosts complete a brief on-line survey.

Exhibit Scheduling & Reservations

The exhibit will travel to four locations each year with an average 3 month stay beginning in 2013. We invite you to contact Dave Stack regarding its availability, make reservations and inquiry about conference invitations.

Exhibit Installation & Shipment

The exhibit arrives in a custom shipping container weighing 872 pounds. Co-hosts need a fork lift to unload the crate from the Museum's carrier and store the crate (99" h x 48" w x 48" l) inside. 3 backdrop panels slide out from the crate and are easily connected to each other. 3 stanchions arrive fully assembled. Objects to be placed on top of stanchions are located inside each.

Space requirements: 10'x10' area accommodates the backdrop composed of 3 panels (3' w x 8' h x 4" deep) and 3 triangular stanchions (3' h x 2' w). Visitors should be able to view and interact with the front and back of large panels. The exhibit does not require an electric power source.

Accessibility & Safety: Exhibit text meets ADA design standards. Construction materials are certified as flame retardant.

Shipment: The exhibit travels point to point. The Museum and its partners have invested \$102,000 in R&D, including insurance for loss or damage.

Cost: The Museum coordinates shipping. Co-hosts fund shipment to their location at an average cost of \$700 - \$1,000 via a reimbursement to the Museum.

Exhibit Presented by

National Museum of Forest Service History

Exhibit Lead Partners

The Charles Engelhard Foundation
Burlington Northern Santa Fe Foundation
Coeur D'Alene Mines Corporation
The Forest History Society
Lambda Bioremediation Systems
National Mining Association
Stan and Judy Dempsey Fund
USDA Forest Service

National Museum of Forest Service History

A national nonprofit organization founded in 1988, dedicated to collecting, preserving, and interpreting the entire national history of the US Forest Service for the education and enjoyment of the general public, scholars, and historical researchers.

www.nmfs-history.net

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INTERACTIVE EXHIBIT

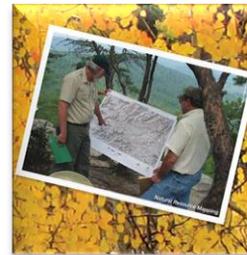
When touched, tiles on the large panels swivel to reveal the link between:

- ✓ Outdoor gear and minerals mined from National Forest System lands
- ✓ Lesson Learned in reclamation and how this knowledge is passed on to youth
- ✓ Forest Service occupations and tools that are dependent upon minerals mined from National Forest System lands



These swivel tiles create a puzzle effect for visitors viewing the exhibit from each side.

QR Codes Invite Visitors with Mobile Devices To Explore Six Virtual Galleries



Virtual Gallery
Gifford Pinchot
Quotes featured as
Tweets

Exhibit In A Box

- _ Easy assembly instructions
- _ Inventory List
- _ Cleaning supplies
- _ Packing materials



Virtual Gallery
Career Center
Features You
Tube Videos



Exhibit Fabrication by Condit Exhibits
Graphic Design by Box Nine Design