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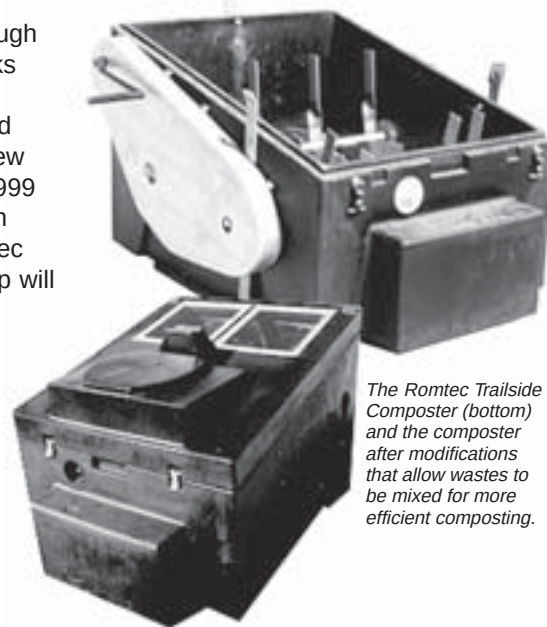
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San Dimas Technology and Development Center

Modified Romtec Trailside Composter

The SDTDC Recreation Program is drafting a Tech Tip on a Romtec Trailside Composter that was modified through a partnership agreement with Parks Canada to design and fabricate an internal mixing device. The modified unit was used successfully at a crew spike camp in Alaska during the 1999 field season. The photo shows both the original and the modified Romtec Trailside Composters. The Tech Tip will be issued later this summer.

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The Romtec Trailside Composter (bottom) and the composter after modifications that allow wastes to be mixed for more efficient composting.

Soil Stabilizers on Universally Accessible Trails

A project report will soon be available comparing several types of soil stabilizers on universally accessible trails. The report will be based on information from the Wood River Day Use Trail, which was constructed on the Winema National Forest near Klamath Falls, OR, during 1995 and 1996, and the Bell Rock Pathway on the Coconino National Forest near Sedona, AZ, in 1997 and 1998. The stabilizers included bentonite clay, pine resin emulsion, enzymes, latex emulsions, sulfuric acid, and ground seed hulls. One section was constructed with the Macadam technique.

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Miox P-3 Water Treatment System

Eleven Miox P-3 water-treatment systems have been installed and all are functioning well. Three more systems will be installed as soon as weather permits and storage tanks and piping are completed. We have completed four 3M filter removals and replaced them with Rosedale filters. Four more units are scheduled to be completed in May.

For further information on the Miox P-3, contact:
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A Miox P-3 water system.

Fred Cammack, FS Technical Engineer of the Year

On April 6, 2000, Mike Dombeck, Chief of the Forest Service, and Mike Ash, Deputy Director of Engineering, presented the Technical Engineer of the Year award to Charles F. (Fred) Cammack of the San Dimas Technology and Development Center.



*Fred Cammack
Forest Service Technical Engineer of the Year*

Fred received a bachelor's degree in engineering from California State University, Los Angeles, and a master's degree in organizational management from the University of La Verne. He is a Licensed Mechanical Engineer in the State of California. Before coming to the Center, Fred worked in manufacturing, design engineering, and project management.

In 1990, Fred redesigned and managed the construction of an improved Spark Arrester Test Laboratory at the Center. Fred provides technical support to the Center's Fire Chemicals Qualification and Test Program. His extensive field testing of fire retardant chemical base storage tank recirculation systems resulted in improved system designs. He also prepared training and guidance literature for base use. Fred is now working to revise the artwork used in the Forest Service Standard on signing.

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Missoula Technology and Development Center

Hazardous Materials

Many Forest Service personnel work with hazardous materials. The Missoula Technology and Development Center (MTDC) is preparing two guides to help employees use and store these materials safely.

The *Everyday Hazmat User's Guide* provides guidance on the safe storage, dispensing, transportation, and disposal of hazardous materials commonly encountered in the Forest Service. Some of these materials include flammable and combustible liquids, flammable solids, paints, pesticides, and compressed gases.

The *Hazmat Designer's Guide* is intended for employees who are responsible for designing and operating hazmat facilities. The guide will provide an easy-to-read, condensed version of the major national codes for facilities, hazmat, and safety.

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If your hazmat storage looks like this, MTDC's hazmat guides may be able to help you.

Controlling Acid Mine Drainage

Acid mine drainage from abandoned mines on Federal lands is a serious problem for the Forest Service. Acid mine drainage contributes to the degradation of streams and riparian areas and directly affects fish and wildlife. It can be a problem for municipal water sources. Plugging mine openings to eliminate or reduce acid mine drainage has met with limited success.



Acid mine drainage disturbed the stream channel at this mine site on

Steve Oravetz, MTDC Engineering Program Leader, is working on the problem of acid mine drainage with Bob Wintergerst, of the Forest Service's Northern Region, and John Metesh, of the Montana State Bureau of Mines and Geology. The project is aimed at controlling acid mine drainage by determining a mine's water sources and reducing the flow of water to the mine. The investigators are attempting to identify features readily apparent on topographic maps, or satellite or aerial photos that will help Forest Service personnel pinpoint water sources to determine if the mine can be isolated from them.



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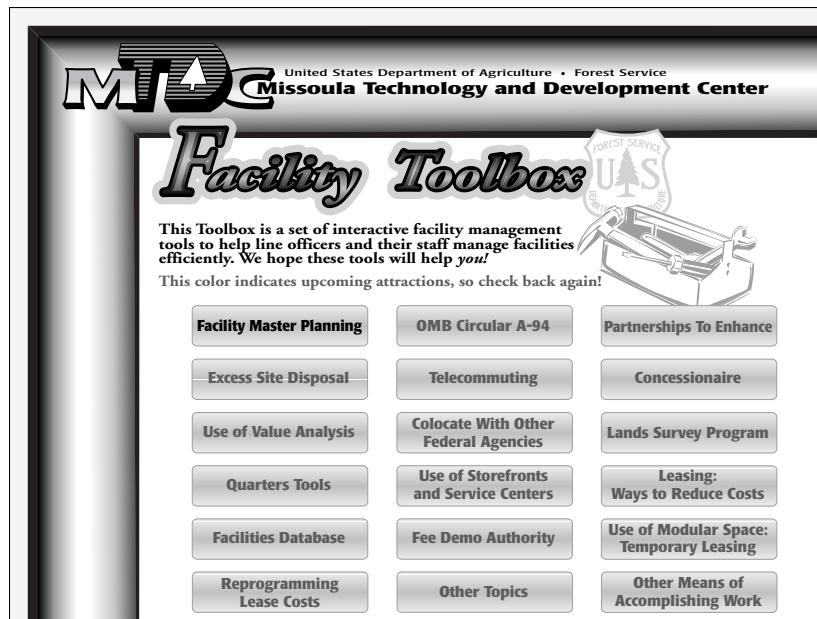
Controlling Acid Mine Drainage (continued)

This process will be tested on two mines in the Northern Region: the Charter Oak Mine on the Helena National Forest and the Elkhorn Mine on the Beaverhead-Deerlodge National Forest. Acid mine drainage problems associated with both mines are harming ecosystems downstream on lands managed by the Forest Service.

For additional information about acid mine drainage, contact:
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Facility Toolbox Project

MTDC is developing a web site for facility managers and line officers that will be a centralized collection of facility management tools and reference information. This Facility Toolbox will eventually include tools covering 18 topics. The topics will range from Facility Master Planning to information on the use of value analysis in facility-based decisions. The rough draft of the first tool, Facility Master Planning, can be reviewed on the Forest Service's internal computer network at MTDC's FSWeb homepage: <http://fsweb.mtdc.vo.fs.fed.us/toolbox>. We have prepared a form for comments that will allow you to help us improve the tools. Please check out Facility Master Planning and give us your suggestions for improvement.



For additional information on the Facility Toolbox, contact:
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