

For 2003, ARTT projects include:

- Cost and performance report for steam injection at NAS North Island.
- Cost and performance report comparing the use of sodium acetate to vegetable oil.
- Demonstration of monitored natural attenuation software at the RITS seminars.

Internal/External Technical Support

- ARTT members share EFD/EFA-specific knowledge with each other and disseminate this information to their offices.
- ARTT members also participate in Cleanup Review Tiger Teams to provide technical support and promote innovative technology implementation.

Technology Initiatives and Technology Transfer

- ARTT members review NFESC T2 tools, make recommendations, propose new tools, and recommend new T2 methods for RPM use.
- ARTT members review NFESC's ERB website for RPM usefulness.
- ARTT members review NFESC's Broad Agency Announcement (BAA) proposals for innovative technologies.
- ARTT members serve as IR focal points at the respective EFD/EFAs to facilitate RPM access to innovative technologies available through the BAA process.
- ARTT members function as informal points-of-contact for technical data calls.

RPM Training Support

ARTT continues to support the Civil Engineer Corps Officers School in the development and update of curricula and training materials as they relate to innovative technologies. In FY02 the ARTT participated in technical content reviews for the Remedy Selection and Closure, and Advanced Environmental Restoration courses

POINTS OF CONTACT

If you are interested in participating in ARTT, contact any of the following:

EFA Chesapeake
(202) 685-3287

EFA Northeast
(610) 595-0567 x-146
(610) 595-0567 x-160

EFA Northwest
(360) 396-0145

EFA West
(650) 746-7453

LANTDIV
(757) 322-4761

PACDIV
(808) 471-9186 x-255
(808) 471-9186 x-258

SOUTHDIV
(843) 820-5561
(843) 820-5616

SOUTHWESTDIV
(619) 532-2546
(619) 532-0961

CNO
(703) 602-5329

CMC
(703) 695-8302 x-3329

IR Managers' Link
(843) 820-5944

NAVFACHQ
(202) 685-9299

NFESC
(805) 982-4853
(805) 982-4991
(805) 982-1661



ALTERNATIVE RESTORATION TECHNOLOGY TEAM (ARTT)



*Leaders in Innovative
Environmental Cleanup
Technology*

ARTT is a Naval Facilities Engineering Command (NAVFAC) chartered workgroup, established to promote the use of cost effective, innovative technologies, and methods in the Navy Installation Restoration (IR) program.

OBJECTIVES

- Identify barriers that inhibit implementation of innovative technologies and methods.
- Recommend process changes to management that eliminate or minimize barriers.
- Propose policies and recommend procedures and guidance for implementing innovative technologies and methods.
- Develop and recommend initiatives and strategies that will support use of innovative technologies and methods.
- Identify potential sites and innovative technologies for demonstration projects.

MEMBERS

ARTT is made up of IR representatives from the Chief of Naval Operations (CNO), Commandant of the Marine Corps (CMC), NAVFAC Headquarters, the Naval Facilities Engineering Service Center (NFESC), remedial technical managers (RTMs), and remedial project managers (RPMs) representing each of NAVFAC's Engineering Field Divisions and Activities (EFDs/EFAs).

PROGRESS AND ACCOMPLISHMENTS

In 2002, **ARTT** focused on improving communication with the research and development community, incorporating user needs into technology transfer (T2) efforts, and promoting practical solutions to technology implementation issues. Solutions for identified barriers include:

Partnerships

ARTT works closely with the other NAVFAC workgroups to ensure sharing of lessons learned and maximizing resources. In addition, ARTT has established relationships with organizations such as the Interstate Technology Regulatory Commission (ITRC), Environmental Protection

Agency (EPA), United States Geological Survey (USGS), and the other DOD services. ARTT acts as an important link between these groups and cleanup personnel in the field.

Resources

ARTT provides the latest workgroup activities, current EFD/A efforts, and information through its web page: enviro.nfesc.navy.mil/erb. ARTT also provides direct input into the technology transfer tools developed by NFESC. More T2 information is located at: enviro.nfesc.navy.mil/erb/erb_a/restoration/technologies/tech_transfer/index.htm

Publications

ARTT members frequently assist in the development of technical protocols, reports, and articles. These publications provide up-to-date technology information and lessons learned to the environmental restoration community. ARTT promoted one publication in the past year that will assist with the implementation of a more cost-effective restoration program.

- "Field Demonstration Using Vacuum Truck for Lead Contaminated Soil, Former Trap and Skeet Ranges in Barbers Point, Oahu, Hawaii." This article discusses surface soil excavation of closed firing ranges using a vacuum truck as compared to traditional excavation. enviro.nfesc.navy.mil/erb/erb_a/outreach/newsltr/rpmnews/2002fa.pdf

Field Projects

The Y0817 Technology Demonstration and Evaluation Program is a NAVFAC-sponsored program that identifies future technology needs, and funds the demonstration and evaluation of these technologies.

ARTT members actively participate in the Y0817 program, helping to further the process that matches "Dem-Val" funds with practical technology.

This collaborative effort among NAVFAC, EFDs/EFAs, and NFESC demonstrates that Dem-Val investment in Navy environmental cleanup has a greater return when linked directly to practical field applications.

Y0817 projects with ARTT involvement include:

- Electroresistance Heating of Chlorinated Solvents in Low Permeability Soils.
- In-situ Abiotic Reductive Dechlorination of Groundwater with Bi-metallic Nanoparticles.
- Zero Valent Iron Injection Demonstration at Hunters Point Shipyard.

More information on any of these projects can be found at p2ashore.nfesc.navy.mil/cgi-bin/project_descriptions/press.cfm

ARTT members are participating in the Navy 6.4 Shore Development, Test and Evaluation process as a review resource. In this capacity ARTT members are working more closely with the R&D community to review proposals and provide end-user needs and input into the technologies development process that meet Navy need.

Training

In August 2002, the ARTT and NAVFAC's RAO/LTM working group participated in a groundwater technology forum hosted by SOUTHWESTDIV in San Diego, California. This forum highlighted the latest innovative technologies, site clean-up approaches, and contracting efforts.

ARTT IN 2003

ARTT will continue to examine its function and usefulness in the ever-changing environment of the Navy/Marine Corps IR Program. ARTT is committed to the promotion, implementation, and demonstration of innovative technologies.