



UNITED STATES
NUCLEAR WASTE TECHNICAL REVIEW BOARD
2300 Clarendon Boulevard, Suite 1300
Arlington, VA 22201

Full Board Meeting Agenda

Natural and Archaeological Analogues

April 16, 1991

Peppermill Hotel
2707 South Virginia Avenue
Reno, Nevada
(702) 826-2121

8:30 A.M.

Welcome & Opening Remarks

Don U. Deere, Chairman of the Nuclear
Waste Technical Review Board (NWTRB)

State of Nevada Update

Status Report on Nevada Repository Programs

Bob Loux, Nevada Agency for Nuclear Projects
(30 min.)

Possibility of Petroleum Reserves at Yucca Mountain

Peter Hummel, Nevada State Commission on
Mineral Resources (45 min.)
Alan Chamberlain, Colorado School of Mines

U.S. Geological Survey (USGS) Update

Status of USGS involvement at Yucca Mountain

[Gene Roseboom](#), USGS (20 min.)

10:30 A.M. (approximately)

BREAK

- over -

Natural Analogue Session

Opening Remarks

Ellis D. Verink, Chair, Morning Session
NWTRB

Nevada Test-Site Studies

[Larry Ramspott](#)

Lawrence Livermore National Laboratory (LLNL)
(30 min.)

Archaeological Analogues/Yucca Mountain

Alternative Perspective

Isaac Winograd, USGS
(30 min.)

Nuclear Regulatory Commission (NRC)

Natural Analogues Program Plan

[George Birchard](#), Office of Nuclear Regulatory
Research, NRC (30 min.)

Topics:

- Status of Alligator River Project
- Vallez Caldera
- NRC Natural Analogue Workshop - 1991
Summer

12:30 P.M. (approximately)

LUNCH

1:15 P.M.

Opening Remarks

Donald Langmuir, Chair, Afternoon Session,
NWTRB

Overview and Status of Piña Blanca Project

[William Murphy](#), Center for Nuclear Waste
Regulatory Analysis (30 min.)

NRC Staff Perspectives on Analogues

[Norman Eisenberg](#), NRC

Office of Nuclear Material Safety and Safeguards
(NMSS) (30 min.)

Introduction to the Department of Energy (DOE)

Participation in Natural Analogue Studies

[J. Russell Dyer](#), DOE, Yucca Mountain Project

Office (YMPO) (10 min.)

Topics:

- Differing definitions of "natural analogue" for international programs, INTRAVAL, and Yucca Mountain Project (YMP)

Natural Analogue Advisory Group

Robert Levich, DOE/YMPO (5 min.)

International Program

Robert Levich, DOE/YMPO

3:00 P.M. (approximately)

BREAK

Study Areas: (40 min.)

- Oklo
 - Alligator River
 - Cigar Lake
 - Poco de Caldas
- Mike Shea, University of Chicago

Geochemistry & Transport of Naturally Occurring Pu, I, Tc at Natural Analogue Sites

David Curtis, Los Alamos National Laboratory (LANL) (30 min.)

INTRAVAL Perspective

Charles Voss, Golder Associates (15 min.)

Introduction to the YMP Philosophy

J. Russell Dyer, DOE/YMPO (15 min.)

Role of Analogues in the Radionuclide Transport Program

Julie Canepa, LANL (20 min.)

Topics:

- Processes for which analogues may exist
- Selection criteria for analogues
- Recommended analogues for these processes
- Analogues for which planned studies exist

5:30 P.M. (approximately)

ADJOURN

Other Speakers:

Carl Johnson, State of Nevada

Carl Gertz, YMPO

Paul Cloke, SAIC

Ardyth Simmons, SAIC

Robert Rogers, INEL