

**U.S. DEPARTMENT OF ENERGY
OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT**

**NUCLEAR WASTE TECHNICAL REVIEW BOARD
HYDROLOGY AND GEOCHEMISTRY PANEL MEETING**

**SUBJECT: PROGRAM OVERVIEW OF
GROUND-WATER TRAVEL TIME
(GWTT)**

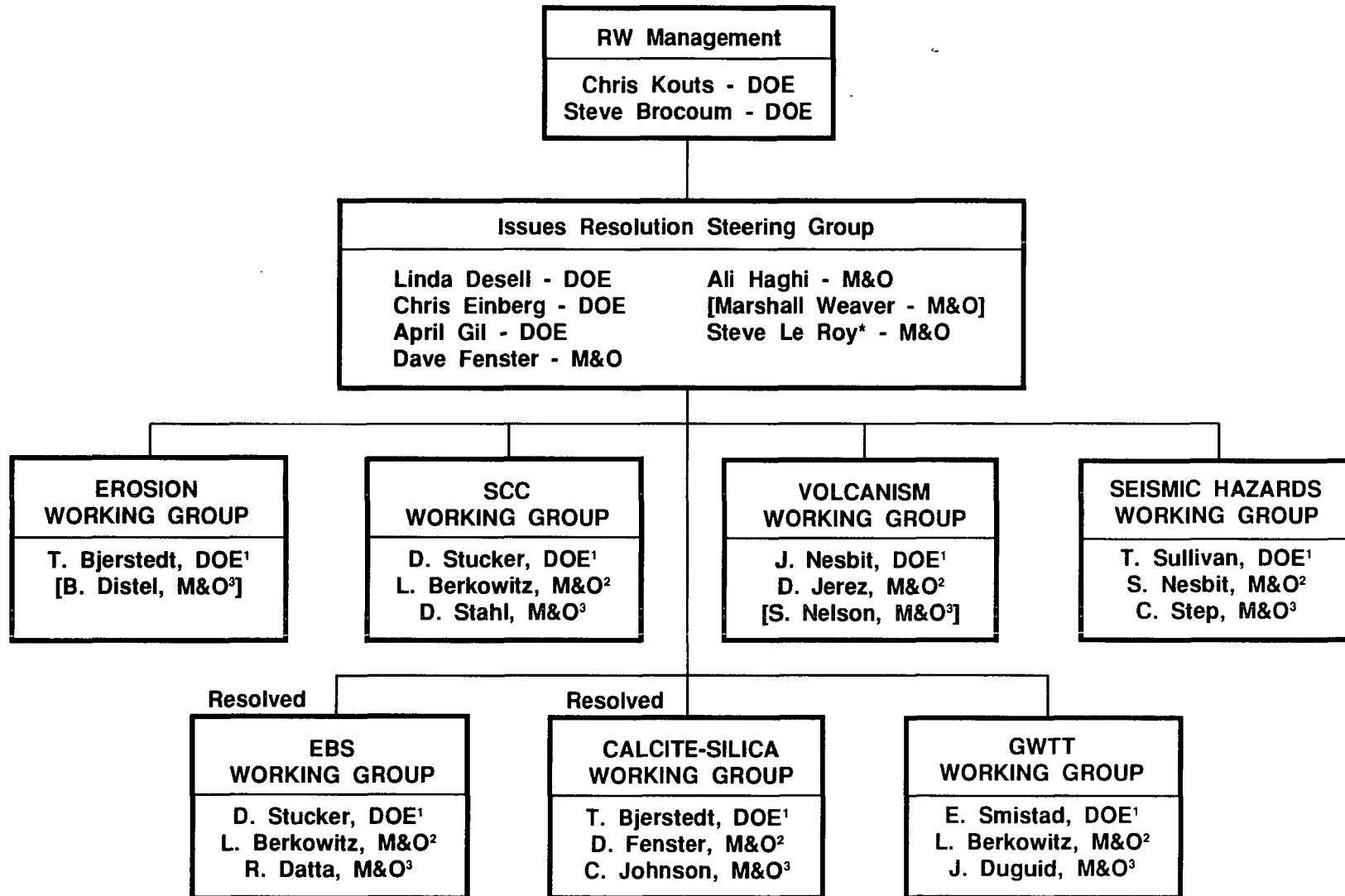
PRESENTER: ERIC T. SMISTAD

**PRESENTER'S TITLE
AND ORGANIZATION: PHYSICAL SCIENTIST, TECHNICAL SYSTHESIS TEAM
OFFICE OF ASST. MANAGER FOR SUITABILITY AND LICENSING
U.S. DEPARTMENT OF ENERGY
LAS VEGAS, NEVADA**

**PRESENTER'S
TELEPHONE NUMBER: (702) 794-7587**

**SEPTEMBER 12-13, 1994
LAS VEGAS, NEVADA**

MGDS Issues Resolution Organization



1. DOE Lead
2. Regulatory Lead
3. Technical Lead

* M&O Issue Resolution Manager
 [] PMO Staff

GWTT Working Group

ERIC SMISTAD

LESTER BERKOWITZ

JIM DUGUID

RALLY BARNARD

DOE LEAD

TECHNICAL LEAD (M&O)

REGULATORY LEAD (M&O)

IMPLEMENTATION (SNL)

RESOURCES: USGS, LANL, AND M&O

GWTT Approach is Based on the Interpretation of:

- **DOE Regulatory Basis: GWTT Disqualifying Condition [10 CFR 960.4-2-1(d)]**
- **NRC Regulatory Basis: GWTT Performance Objective [10 CFR 60.113 (a)(2)]**
- **DOE and NRC Definitions of the Disturbed Zone**

Key Points

- **The current detailed GWTT approach has just recently matured and has been "fleshed-out" significantly since April; however, the basic approach has remained unchanged**
- **The determination of GWTT is an iterative process**
 - Preliminary results Mid CY95
 - First iteration Late CY96
 - Final iteration Late CY97
- **Follow-on NWTRB meetings involving GWTT, should include presentations from individuals performing the detailed modelling**