

SEP 18 1992

MEMORANDUM FOR: John Randall, Leader  
Waste Management Performance Section  
Waste Management Branch  
Division of Regulatory Applications, RES

FROM: David Brooks, Section Leader  
Hydrologic Transport Section  
Hydrology and Systems Performance Branch  
Division of High-Level Waste Management, NMSS

SUBJECT: NRC/USGS RESEARCH WORKSHOP

In order to provide feedback to you about the proposed workshop, we have reviewed information about the National Research Program (NRP) of the Water Resources Division, U.S. Geological Survey. Specifically, we examined USGS Open-File Report 92-38, which gives research project summaries for the Water Resources Division during FY91.

According to Tom Nicholson, the research workshop will focus on issues that are pertinent to NRC's low-level nuclear waste program. We have examined the research summaries to identify USGS researchers who are doing work that is also relevant to the high-level waste program. Investigators and projects that we found to be of particular interest are listed below:

| PROJECT CHIEF    | PROJECT NUMBER | TITLE   |
|------------------|----------------|---|
| Ronald V. James  | WR 68-036      | Factors Determining Solute Transfer in the Unsaturated Zone                                 |
| Edwin P. Weeks   | CR 69-200      | Field Applications of Unsaturated Zone Flow Theory  |
| Charles E. Brown | NR 84-130      | Multivariate Statistical Techniques for Assessing Regional Groundwater Quality and Quantity |
| David Stonestrom | WR 63-024      | Applications of the Unsaturated Flow Theory to the Phenomena of Infiltration and Drainage   |
| Jacob Rubin      | WR 82-180      | Theories of Water Flow and of Solute Transport in the Unsaturated Zone                      |
| Paul A. Hsieh    | WR 83-184      | Hydrology of Fractured Rocks  |

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John R. Nimmo

WR 89-198

Physical Characteristics that Determine Flow in the Unsaturated Zone

Larry V. Benson

CR 82-207

Arid Regions Climate and Chemistry

Please consider the above list of relevant projects when you conduct the planning meeting for this workshop. We would be happy to send a representative to that planning meeting, currently scheduled for October 8th. Please contact Neil Coleman at 504-2530 regarding the planning meeting and the upcoming research workshop.

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David Brooks, Section Leader  
Hydrologic Transport Section  
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