

JAN 10 1994

TIME SENSITIVE INFORMATION

CALIFORNIA, CONNECTICUT, ILLINOIS, MASSACHUSETTS, NEBRASKA, NEW JERSEY, NEW YORK, NORTH CAROLINA, OHIO, PENNSYLVANIA AND TEXAS

TRANSMITTAL OF WORKSHOP ANNOUNCEMENT AND REGISTRATION FOR THE PERFORMANCE AND MODELING OF CONCRETE FOR LLW DISPOSAL (SP-94-003)

Your attention is invited to the attached correspondence which contains:

- INCIDENT AND EVENT INFORMATION.....
- PROGRAM MANAGEMENT INFORMATION.....
- TRAINING COURSE INFORMATION.....XX      WORKSHOP ON CONCRETE FOR LLW DISPOSAL
- TECHNICAL INFORMATION.....
- OTHER INFORMATION.....

Supplementary information: This is to inform you that there will be a workshop on the performance and modeling of concrete for LLW disposal, January 31 - February 2, 1994, National Institute of Standards & Technology (NIST), Gaithersburg, MD 20899. All State personnel must attend at their own expense. Please send your registration card to Ms. Lori Phillips, NIST.

If you have further questions regarding this correspondence, please contact the individual named below.

POINT OF CONTACT: Steve Salomon  
TELEPHONE: (301) 504-2368  
FAX: (301) 504-3502

Original Signed By  
RICHARD L. BANGART

Richard L. Bangart, Director  
Office of State Programs

1/11/94 FAXED TO STATES

Distribution:

RLBangart	JJSurmeier	SASchwartz	DIR RF	SA RF
RSAOS	RSLOS	MBell,LLWB	LLW File	DMSollenberger
JPhillips, RES		JThoma, LLWB	A/S File	JKennedy, LLWB

(SENT TO STATES' PROGRAM DIRECTORS - NY-Merges, TX-Ferguson)

*E-mailed to...*

OFC	OSP:SA <i>SNS</i>	OSP:SA:AD <i>[Signature]</i>	OSP: <i>[Signature]</i>			
NME	SSalomon:gd	JJSurmeier	RBangart			
DTE	01/03/94	01/3/94	01/10/94			

G:\SP94003.SNS

DCD (SP01) PDR (YES  NO )

9403290134 940110  
PDR STPRG ESQGEN  
PDR

*44-01-1*



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

January 10, 1994

TIME SENSITIVE INFORMATION

CALIFORNIA, CONNECTICUT, ILLINOIS, MASSACHUSETTS, NEBRASKA, NEW JERSEY, NEW YORK, NORTH CAROLINA, OHIO, PENNSYLVANIA AND TEXAS

TRANSMITTAL OF WORKSHOP ANNOUNCEMENT AND REGISTRATION FOR THE PERFORMANCE AND MODELING OF CONCRETE FOR LLW DISPOSAL  
(SP-94-003)

Your attention is invited to the attached correspondence which contains:

INCIDENT AND EVENT INFORMATION.....

PROGRAM MANAGEMENT INFORMATION.....

TRAINING COURSE INFORMATION.....XX      WORKSHOP ON CONCRETE FOR  
LLW DISPOSAL

TECHNICAL INFORMATION.....

OTHER INFORMATION.....

Supplementary information: This is to inform you that there will be a workshop on the performance and modeling of concrete for LLW disposal, January 31 - February 2, 1994, National Institute of Standards & Technology (NIST), Gaithersburg, MD 20899. All State personnel must attend at their own expense. Please send your registration card to Ms. Lori Phillips, NIST.

If you have further questions regarding this correspondence, please contact the individual named below.

POINT OF CONTACT: Steve Salomon  
TELEPHONE: (301) 504-2368  
FAX: (301) 504-3502

*Richard L. Bangart*  
Richard L. Bangart, Director  
Office of State Programs

Enclosure:  
As stated

## ANNOUNCEMENT

### WORKSHOP ON THE PERFORMANCE AND MODELING OF CONCRETE FOR LLW DISPOSAL

January 31- February 2, 1994

NIST, Gaithersburg

Sponsored by:

U.S. Nuclear Regulatory Commission  
and  
National Institute of Standards and Technology (NIST)

**DESCRIPTION:** Most states and compacts in the United States are proposing engineered enhancement or alternatives for shallow land burial of Low Level Radioactive Waste (LLW). The concepts proposed include: (1) Below Ground Vaults (BGV) which are enclosed reinforced concrete structures containing LLW built below the original ground surface and topped with an engineered soil cap; (2) Earth Mounded Concrete Bunkers (EMCB) which are the same as the BGV but built at grade and covered with an engineered soil mound and (3) Above Ground Vaults (AGV), which are concrete vaults containing LLW, built at grade but without an earthen cover. Most European and Japanese concepts for LLW and Intermediate Level Waste (ILW) disposal involve its disposal in concrete containers and/or vaults located below the ground surface.

The focus of the workshop will be research in the area of concrete degradation in the context of its use in LLW (and ILW) applications. The modeling of concrete degradation for use in performance assessments of the disposal facility for periods up to 500 years will be emphasized. Topics to be covered include the modeling of concrete structures for chemical degradation (sulfates, alkalis, acids, chlorides, alkali - aggregate reactions, etc.), the effects of joints and cracks in concrete and their impact on flow through concrete, the use of admixtures, the properties of backfills and infills to retard radionuclides and Quality Assurance/Quality Control (QA/QC) procedures for concrete, etc. The last day of the workshop will be devoted almost entirely to the performance assessment aspects of concrete durability and rate of degradation for radioactive waste disposal applications.

Attendees to the workshop are expected to include personnel from states, compacts, developers, consultants and others involved in the regulation and development of LLW disposal facilities. Also invited to attend and participate are the Department of Energy (DOE), the National Laboratories and organizations of other countries involved in the regulation and disposal of LLW (and ILW).

**REGISTRATION:** There is no registration fee. The workshop will take place in the Green Auditorium, Administration Building, NIST. Registration will begin at 7:30 a.m. on Monday, January 31, 1994, at NIST. The registration form must be mailed or faxed to NIST by January 15, 1994 in order for your names to appear in the preliminary registration list. Registrations will also be collected at the door. For additional registration information please call Ms Lori Phillips at (301) 975-3881.

ACCOMMODATIONS: The Gaithersburg Hilton will serve as the conference hotel. Round trip bus transportation will be provided between the hotel and NIST. The room rate is \$70, single or double, plus 12% tax. To reserve a room, please call the Gaithersburg Hilton at (301) 977-8900 by January 15, 1994.

SPEAKERS: The following are confirmed speakers (unless otherwise noted)

Nicholas Antonas, *Bechtel, Oak Ridge*  
Christine Langton, *Westinghouse, Savannah River*  
Harold Benny, *Westinghouse, Hanford*  
Lillian Wakely, *Corps of Engineers*  
Della Roy, *Pennsylvania State University*  
Paul Zia, *North Carolina State University*  
Alan Atkinson, *U.K. NIREX (unconfirmed)*  
Fred Karlsson, *SKB, Sweden (unconfirmed)*  
Stig Wingfors, *SKI, Sweden (unconfirmed)*  
James Clifton, *NIST*  
Nicholas Carino, *NIST*  
Roger Seitz, *INEL*  
Vern Rogers, *Rogers Engineering Associates*  
Joe Tom, *Corps of Engineers*  
Jim Shilstone, *Shilstone Companies Inc.*  
Dan Naus, *Oak Ridge*  
Kenneth Snyder, *NIST*  
Also speakers from ANDRA, France, NAGRA, Switzerland, PNC, Japan and AECL, Canada are being contacted.

PROCEEDINGS: All papers presented at the workshop will be published as a NRC NUREG document. A copy will be mailed to each attendee.

-----Cut here and mail -----

REGISTRATION CARD

Last Name -----  
First Name -----  
Title -----  
Organization -----  
Street Address -----  
City, State, Zip -----  
Country -----  
Business Telephone -----  
Fax No. -----

Please return this form by January 15, 1994 to:

Ms Lori Phillips

A-903 Administration Building

Or: FAX (301) 948-2067

National Institute of Standards & Technology

Gaithersburg, MD 20899, USA