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Argonne National Laboratory
9700 South Cass Ave, Argonne, Illinois 60439, USA

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To: Shaheed Hossain, IAEA Fax: 43-1-234564

Matthew W. Kozak, SNL Fax: 505-848-0881

527 Frederick W. Ross, US-NRC Fax: 301-504-2260

Roger R. Seitz, EG&G-ID Fax: 208-526-9822

From: Jan B. van Erp Fax: 708-252-3193
Argonne National Laboratory Tel.: 708-252-3381

Subject: IAEA Interregional Training Course "Safety Assessment Methodologies for Near-Surface Radioactive Waste Disposal"; 14 February - 4 March 1994; Argonne, Illinois, USA.

Message:

- (1) Sending herewith the version of December 17, '93 of the program calender pertaining to the above-referenced training course. This version incorporates comments and suggestions received. We would appreciate any further input you may have.
- (2) In view of the short remaining lead time, it will be necessary to freeze the program in the immediate future, so that lecturers/instructors may be contacted in order to obtain definite commitments. Therefore, please send me and/or Shaheed Hossain your comments at your earliest convenience.
- (3) Many thanks for your valuable cooperation.

IAEA/USA Interregional Training Course 65
 "SAFETY ASSESSMENT METHODOLOGIES FOR NEAR-SURFACE RADIOACTIVE WASTE DISPOSAL"
 14 February - 4 March 1994, Argonne, Illinois, USA

Week 1: Principles & Approaches

Module 1: Background Information
 Module 2: General Principles of Safety Assessment
 Module 3: Types of Waste and Disposal Facilities
 Module 4: Scenarios and Pathways for Dispersal

Module 9: Case Studies
 Module 10: Special Lectures
 Module 11: Participants' Country Presentations

Date Time	Monday 14 February '94	Tuesday 15 February '94	Wednesday 16 February '94	Thursday 17 February '94	Friday 18 February '94
8:50 - 9:40	Registration Course Opening	L.12.1 Overview of IAEA Programs on Rad. Waste Management C. Bergman	L.3.1 Types and Inventories of Radioactive Waste P. Grimwood	L.2.8 General Principles of Safety Assessment R. Seitz	L.2.14 Safety Assessment for Siting of New Facilities J. Starnier
Coffee					
10:00 - 10:50	L.1.1 Overview and Objectives of the Course C. Bergman J.B. van Erp	L.2.3 Regulatory Framework: US-Commercial (10CFR-61) F. Ross	L.3.2 Design of Rad. Waste Disposal Facilities V. Rogers	L.2.9 Safety Assessment Approach: US-DOE R. Seitz	L.4.1 Overview of Pathway Analysis J. Starnier
11:00 - 11:50	L.1.2 IAEA's Advisory Program WAMAP Safety Assessment Needs C. Bergman	L.2.4 Regulatory Framework: US-DOE (5820.2a) R. Seitz	L.3.3 Cover Design for Rad. Waste Disposal Facilities V. Rogers	L.2.10 Safety Assessment Approach: US Commercial Sites J. Starnier	L.4.2 Intruder Analysis (Issues) P. Guetat
Lunch					
12:50 - 1:40	L.2.1 Effects of Radiation on Man and the Environment C. Bergman	L.2.5 Canadian Regulatory Framework W. Selander	L.3.4 Rad. Waste Disposal Practices in Canada W. Selander	L.2.11 Safety Assessment Approach in Canada W. Selander	L.4.3 Intruder Analysis (Assumptions) P. Guetat
1:50 - 2:40	L.2.2 Principles of Radiation Protection C. Bergman	L.2.6 French Regulatory Framework P. Guetat	L.3.5 Rad. Waste Disposal Practices in France P. Guetat	L.2.12 Safety Assessment Approach in France P. Guetat	L.9.1 Results from Monitoring of ANL's Site A N. Golchert
Coffee					
3:00 - 3:50	Argonne Safety Orientation S. Dornfeld	L.2.7 UK Regulatory Framework P. Grimwood	L.3.6 Rad. Waste Disposal Practices in the UK P. Grimwood	L.2.13 Safety Assessment Approach in the UK P. Grimwood	L.11.1 Participants' Country Presentations
4:00 - 4:50	D.1-2 Discussion Orientation about Local Arrangements	D.2-12	D.3	D.2	D.2-4-9-11

Legend: L - Lecture; D - Discussion Session; W - Work Session; V - Technical Visit (WD31217T)
 L.4.2 denotes Lecture 2 in Module 4; D.3-4 denotes Discussion Session on Modules 3 and 4.

IAEA/USA Interregional Training Course 55
 "SAFETY ASSESSMENT METHODOLOGIES FOR NEAR-SURFACE RADIOACTIVE WASTE DISPOSAL"
 14 February - 4 March 1994, Argonne, Illinois, USA

Week 2: Mathematical Modeling and Computer Codes Module 9: Case Studies
 Module 5: Background of Mathematical Modeling Module 10: Special Lectures
 Module 6: Description of Various Computer Codes Module 11: Participants' Country Presentations
 Module 7: Work Sessions Practicing Computer Codes Module 13: Technical Visits

Date Time	Monday 21 February '94	Tuesday 22 February '94	Wednesday 23 February '94	Thursday 24 February '94	Friday 25 February '94
8:50 - 9:40	L.2.15 Safety Criteria for Radioactive Waste Disposal G. Linsley	L.9.2 Derivation of Exempt Levels for Disposal in Landfills G. Linsley	L.2.16 Current Internat'l Approaches to Safety Assessment: NSARS Results S. Hossain	L.5.9 Modeling of Water Infiltration J. McCord	L.9.3 Results from Illinois' Sheffield LLW Disposal Site D. Ed
Coffee					
10:00 - 10:50	L.5.1 Geochemistry A. Campbell	L.5.5 Source Term Modeling T. Sullivan	L.5.7 Vadose-Zone Flow Modeling for Ground Water J. McCord	L.5.10 Saturated-Zone Flow Modeling for Ground Water J. McCord	L.5.11 Modeling of Transport by Surface Water and Air M. Kozak
11:00 - 11:50	L.5.2 Geochemistry A. Campbell	L.5.6 Source Term Modeling (cont'd) T. Sullivan	L.5.8 Vadose-Zone Flow Modeling for Ground Water (cont'd) J. McCord	L.6.3 Computer Codes for Saturated- Zone Flow Modeling J. McCord	W.7.8 Computer Codes for Transport by Surface Water and Air M. Kozak
Lunch					
12:50 - 1:40	L.5.3 Introduction to Near-Field Modeling R. Seitz	L.6.1 Computer Codes for Source Term Modeling T. Sullivan	L.6.2 Computer Codes for Vadose-Zone Flow Modeling J. McCord	W.7.6 Computer Codes for Saturated- Zone Flow Modeling J. McCord	W.7.9 Computer Codes for Transport by Surface Water and Air (cont'd) M. Kozak
1:50 - 2:40	L.5.4 Modeling of Concrete Performance R. Seitz	W.7.2 Computer Codes for Source Term Modeling T. Sullivan	W.7.4 Computer Codes for Vadose-Zone Flow Modeling J. McCord	W.7.7 Computer Codes for Saturated- Zone Flow Modeling (cont'd) J. McCord	D.5-7.9
Coffee					
3:00 - 3:50	W.7.1 Computer codes for Concrete Performance R. Seitz	W.7.3 Computer Codes for Source Term Modeling (cont'd) T. Sullivan	W.7.5 Computer Codes for Vadose-Zone Flow Modeling (cont'd) J. McCord	L.11.2 Participants' Country Presentations	V.13.1 Technical Visit Argonne Site A
4:00 - 4:50	D.2-5-7	D.5-6-7-9	D.5-6-7	D.5-6-7-11	V.13.2 Technical Visit Argonne Site A (cont'd)

Legend: L - Lecture; D - Discussion Session; W - Work Session; V - Technical Visit (WD31217U)

Note: Technical Visit (V.13.3) to Illinois' Sheffield LLW Site, Saturday 26 February '93

IAEA/USA Interregional Training Course 65

"SAFETY ASSESSMENT METHODOLOGIES FOR NEAR-SURFACE RADIOACTIVE WASTE DISPOSAL"

14 February - 4 March 1994, Argonne, Illinois, USA

Week 3: Mathematical Modeling and Using Computer Codes

Module 5: Background of Mathematical Modeling

Module 6: Description of Various Computer Codes

Module 7: Work Sessions Practicing Computer Codes

Module 8: Work Sessions on Test Exercises

Module 9: Case Studies

Module 10: Special Lectures

Module 11: Participants' Presentations

Module 12: Workgroups' Presentations

Date Time	Monday 28 February '94	Tuesday 1 March '94	Wednesday 2 March '94	Thursday 3 March '94	Friday 4 March '94
8:50 - 9:40	L.5.12 Modeling of Transport by Groundwater M. Kozak	L.2.17 Validation M. Kozak	L.9.4 Case Study on Safety Assessment M. Kozak	L.10.2 Format and Content of a Safety Analysis Report S. Hossain	L.11.4 Participants' Country Presentations
Coffee					
10:00 - 10:50	L.5.13 Modeling of Transport by Ground Water (cont'd) M. Kozak	L.5.14 Modeling of Bio- spheric Transport and Radiation Exposure W. Kennedy	L.9.5 Case Study on Safety Assessment (cont'd) M. Kozak	L.2.18 Sensitivity Analysis M. Kozak	L.11.5 Participants' Country Presentations
11:00 - 11:50	L.6.4 Computer Codes for Transport by Ground Water M. Kozak E. Holzbecher	L.5.15 Modeling of Bio- spheric Transport and Radiation Exposure (cont'd) W. Kennedy	L.8.1 Description of Test Exercise for Integrated Safety Assessment R. Seitz	L.2.19 Uncertainty Analysis M. Kozak	D.2-8-9-12
Lunch					
12:50 - 1:40	W.7.10 Computer Codes for Transport by Ground Water M. Kozak E. Holzbecher	L.6.5 Computer Codes for Biospheric Transport and Rad. Exposure Kennedy / C. Yu	W.8.1 Test Exercise	W.8.5 Test Exercise	L.10.3 The Accident at Chernobyl (with video) J.B. van Erp
1:50 - 2:40	W.7.11 Computer Codes for Transport by Ground Water M. Kozak E. Holzbecher	W.7.12 Computer Codes for Biospheric Transport and Rad. Exposure Kennedy / C. Yu	W.8.2 Test Exercise	W.8.6 Test Exercise	Course Evaluation S. Hossain/ J.B. van Erp
Coffee					
3:00 - 3:50	L.11.3 Participants' Country Presentations	W.7.13 Computer Codes for Biospheric Transport and Rad. Exposure Kennedy / C. Yu	W.10.3 Test exercise	L.12.1 Presentations by Workgroups	Course Closing, Presentation of Certificates
4:00 - 4:50	D.5-6-7-11	D.2-5-6-7	W.8.4 Test Exercise	L.12.2 Presentations by Workgroups	

Legend: L - Lecture; D - Discussion Session; W - Work Session; V - Technical Visit (WD31217V)