February 25, 2000

DISTRIBUTION

7th NONDESTRUCTIVE ASSAY WASTE CHARACTERIZATION CONFERENCE - GKB-64-00

The 7th Nondestructive Assay Waste Characterization Conference is scheduled for May 23 - 25, 2000 at the Little America Hotel in Salt Lake City, UT (http://id.inel.gov/nda/overview.htm). Enclosed is the preliminary program for the conference and it can be reviewed on the conference web page at http://id.inel.gov/nda/agenda.html. Also available on the web page is general conference information including hotel accommodations and registration information. Attendees are asked to pre-register by April 18, 2000. I look forward to having you attend this informative conference.

Information regarding local events and maps is enclosed but additional information can be obtained through the Salt Lake City Visitor Information web page at http://www.slctravel.com/.

For administrative questions, e.g., registration, contact Jodi Townsend at joi@inel.gov, phone: 208-526-7818. Questions concerning technical content or special case requests are to be directed to Greg Becker at gkb1@inel.gov, phone: 208-525-0684. Technical paper manuscripts are to be submitted no later than April 5, 2000.

Sincerely

Greg Becker
Conference Chairman

Enclosure
Schedule

Tuesday, May 23, 2000

7:30 AM  Registration/Continental Breakfast

8:00 AM  Welcoming Statement  Greg K. Becker (Idaho National Engineering and Environmental Laboratory)


Session A: Programmatic/Compliance Demonstration – Ballroom A


9:00 AM  An Upper Limit for Total Measurement Uncertainty - Do We Need One for Transuranic Waste?  Dan Taggart (Los Alamos National Laboratory)

9:30 AM  Is your 10% Data 20% Uncertain?  The Effect of Bias on Nuclear Criticality Calculations for WIPP TRUACT-II Shipments  Larry Blackwood, Yale D. Harker (Idaho National Engineering and Environmental Laboratory)

10:00 AM  Break

10:20 AM  Summary of System Performance in the WIPP NonDestructive Assay Performance Demonstration Program  Charles J. Marcinkiewicz (Consolidated Technical Services, Inc.)

Session B: Developmental Measurement Techniques/Systems – Ballroom A

10:50 AM  Calibration of the Crated Waste Assay Monitor (CWAM) for the Low-Level Waste Measurement for the Y-12 Plant  Sheila Melton, Robert Estep, Earl Peterson (Los Alamos National Laboratory)

11:20 AM  ‘IBIS’ - The Integrated Box Interrogation System  D. B. Syme, Stephen Croft, Robert McElroy, Joseph Wachter, Bruce Gillespie, David Martancik (Canberra Industries, Inc.)

11:50 AM  Lunch (on your own)

1:00 PM  Multi-Purpose Crate Counter for the RFETS  Raney Lucerto, Stephanie Jones (BNFL Instruments, Inc.)

2:00 PM  Multi-Detector Analysis System  Ed L. Reber, R. Aryaeinejad, J. D. Cole, M. W. Drigert, J. K. Jewell (Idaho National Engineering and Environmental Laboratory)

2:30 PM  Break


3:20 PM  Corrected Passive Gamma Ray Spectroscopy  Charles V. McIsaac (Idaho National Engineering and Environmental Laboratory)


4:20 PM  Transuranic Optimized Measurement System (TOMS)  Penny S. Haskins, J. E. McKisson, J. P. Oliver (Radiation Technologies, Inc.)

5:30-6:30 PM  No-Host Bar/Reception - Wyoming Room

Wednesday, May 24, 2000

7:30 AM  Continental Breakfast (Ballroom A Foyer)

8:00 AM  Enhanced Imaging Algorithms for the APNEA System  Jens Gregor (University of Tennessee), David C. Hensley (NorthWest Nuclear, LLC)

8:30 AM  Three-Dimensional Imaging of Radiological Contamination in Soil Using the Material Basis Set Method  Clair J. Branch (University of Michigan), Robert J. Estep (Los Alamos National Laboratory)

9:00 AM  INEEL Developed Windows NT Based Gamma Ray Spectrometer Control and Spectral Analysis System  E. Wayne Killian, Larry O. Johnson, Jack K. Hartwell, Dawn May, James Seamans, Larry V. East, Yale D. Harker (Idaho National Engineering and Environmental Laboratory)
9:30 AM  Integration of TGS and CTEN Assays Using the CTEN_FIT Analysis and Databasing Software  Robert J. Estep, Connie Buenafe, Sheila Melton (Los Alamos National Laboratory)

10:00 AM  Break

10:20 AM  A Prototype Generic Expert System Architecture for Data Review/Validation  John Determan, Greg Becker (Idaho National Engineering and Environmental Laboratory)

10:50 AM  Extensible Markup Language, XML, A Catalyst for Knowledge Management and a Tool Base for Building the Dynamics of an Information System  Cecelia J. Hickel (Kiona Scientific)

Session C: Measurement Uncertainty
Ballroom A

11:20 AM  Uncertainty Estimation in Passive Gamma-Ray Assay  Samim Anghai, Chin-Jen Chang (University of Florida)

12:00 PM  Buffet Luncheon (Ballroom B – Main Floor)

1:00 PM  Recent Uncertainty Analysis Results for the INEEL PAN Radioassay System  Yale D. Harker, Larry G. Blackwood, Teresa R. Meachum, Woo Y. Yoon (Idaho National Engineering and Environmental Laboratory)

1:30 PM  A Statistical Method for Assessing Uncertainty in PAN Radioassay Active Mode Measurements Using Bias Corrected Passive Mode Results  Larry G. Blackwood, Yale D. Harker (Idaho National Engineering and Environmental Laboratory)

2:00 PM  Monte Carlo Error Estimation Applied to Nondestructive Assay Methods  Robert Estep, David Miko, Sheila Melton (Los Alamos National Laboratory)


3:00 PM  Break

Session D: RH-TRU and RCRA Constituent Characterization Techniques
Ballroom A


Thursday, May 25, 2000

7:30 AM  Continental Breakfast (Ballroom A Foyer)


9:00 AM  Measurement of the Pu Content of Intermediate Level Waste from the Sellafield Drypak Plant by Passive Neutron Coincidence Counting  Patrick Chard, S. Croft, I. G. Hutchinson, D. J. Lloyd, C. G. Wilkins (Harwell Instruments, Ltd.)

9:30 AM  Performance of a Neutron Multiplicity Counter for Assays of Plutonium Residues  Brian Anderson, Joseph Wachter (Canberra Industries, Inc. – Rocky Flats Office)

10:00 AM  Break

10:20 AM  233U Active-Well Assay System  David C. Hensley, Frederick J. Schultz, Richard D. Bailey (NorthWest Nuclear, LLC), Andrew Lucero, Larry A. Pierce (Oak Ridge National Laboratory)
10:50 AM  Uranium Based Active Neutron Assay Applied to Rocky Flats Content Code 007 Waste Containers
James Seamans, Daniel Menkhaus, Larry V. East, Yale D. Harker (Idaho National Engineering and Environmental Laboratory)


11:50 am  Lunch (on your own)

1:00 PM  Accurate Matrix Compensations for Fissile Material Assay in Drummed Waste Using a High Sensitivity Differential Die-Away Chamber  Patrick Chard, S. Croft, P. B. Sharp (Harwell Instruments, Ltd.)

1:30 PM  IPAN/GEA Active Neutron Assay: Finding the Plutonium Lump  Stephanie A. Jones, George Auchampaugh, Matthew R. Newell (BNFL Instruments, Inc.)

2:00 PM  Profile of 5000 Nondestructive Assay Results of Rocky Flats TRU Waste Containers  Dawn May, James Seamans, Daniel Menkhaus, Clifford Stanley (Idaho National Engineering and Environmental Laboratory)

2:30 PM  Break

2:50 PM  Certification of Mobile APNEA System for NDA of WIPP TRU Waste  Richard L. Bramblett, Gerry G. Streier (ThermoRetec)

3:20 PM  Performance of the WIT 6-Detector Gamma NDA System  David Nisius, Richard T. Bernardi (Bio-Imaging Research, Inc.)

3:50 PM  Down-Hole Probes: Yesterday and Today  C. A. McGrath (Idaho National Engineering and Environmental Laboratory)