



WM Symposia

*Non-profit dedicated to education
and opportunity is pleased to present*



WM2009

Waste Management for the Nuclear Renaissance

*HLW, TRU, LLW/ILW, Mixed, Hazardous
Wastes & Environmental Management*

*Final Program:
March 1-5, 2009
Phoenix, Arizona*

**WM SYMPOSIA
THANKS OUR 2009 SPONSORS
FOR THEIR GENEROUS CONTRIBUTIONS**

Gold



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Registration Packets

Janis Bradburne Consulting

Platts

www.wmsym.org

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PART THREE – WM2009 EXHIBITION AND MARKETPLACE

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Times and locations are subject to change, please see signage onsite for updates.

Welcome to Phoenix!

The annual Waste Management Conference - presented by WM Symposia (WMS), a non-profit dedicated to education and opportunity – is widely regarded as the premier international conference for the management of radioactive material and related topics. The 35th annual conference, WM2009, will convene in the Phoenix Convention Center (PCC) North Building.

Five years and \$600 million in the making, the Phoenix Convention Center celebrated its public grand opening on Dec. 27, 2008.

The expanded Phoenix Convention Center is 2.7 million square feet and boasts nearly 900,000 square feet of exhibition and meeting space. It houses three ballrooms (including the largest one in Arizona), 11 exhibit halls (including one the size of five football fields), and 56 meeting rooms (including several with outdoor patios and pre-function space).



The convention center's sweeping architecture is inspired by the Grand Canyon, and is accentuated by \$3.2 million worth of public art, and its West Building has been awarded LEED certification by the U.S. Green Building Council. Artful whimsy and ecological functionality come together at the convention center's water-harvesting garden, where giant sculptures of desert creatures preside over a recycling process that converts condensation from the heating and cooling system into irrigation water for landscaping. The Phoenix Convention Center is located at 111 N. 3rd Street, Phoenix, AZ 85004, with a Metro Station located at Central and Washington Avenues.

METRO Light Rail, which debuted in downtown Phoenix on the same day as the convention center, connects meeting attendees to a new realm of dining and entertainment possibilities.

The light-rail system operates at street level and is powered by electricity from overhead wires. The quiet, air-conditioned trains operate 20 hours per day, seven days a week, and stop at stations every 10 minutes. The fare to ride is \$1.25 for a one-way trip or \$2.50 for an all-day pass.

WM2009 is proud to be among the first conferences booked in the new North Building. For WM2010, the conference will return to the West Building, located just next door.

WM2009 Registration Hours

Saturday, February 28. 1:00 PM – 5:00 PM
Sunday, March 1. 1:00 PM – 8:00 PM
Monday, March 2 7:00 AM – 5:00 PM
Tuesday, March 3 7:00 AM – 5:00 PM
Wednesday, March 4 7:00 AM – 5:00 PM
Thursday, March 5 7:00 AM – 12:00 PM

WM2009 Exhibition & Marketplace Hours

Sunday, March 1. 5:00 PM – 8:00 PM
Monday, March 2 9:30 AM – 6:00 PM
Tuesday, March 3 9:30 AM – 6:00 PM
Wednesday, March 4 9:30 AM – 12:30 PM

Questions concerning the conference should be directed to WM Symposia +1 520-696-0399 or the WMS Meeting Planner, Mary E. Young, CMP with M.Y. Events, Inc. at +1 480-968-7559 or by email to mary@wmarizona.org.

Meeting Contacts and WMS Officers and Directors

WM2009 Planning Committee

Fred Sheil, General Chair
Gary Benda, Program Advisory Committee Chair
Linda Lehman, Deputy PAC Committee Chair
Bernard Vigreux, European Coordinator

Meeting Contacts

WMS Managing Director - James W. Voss

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WM Symposia

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WMS Administrative Support

Director of Meetings - **Mary E. Young, CMP**
E: mary@wmarizona.org

Papers Administrator - **Stacey Cope**
E: papers@wmarizona.org

Registration & Housing – **Cali Adkisson**
E: onlinereg@wmarizona.org

WM2009 SCHEDULE OF EVENTS

All Sessions will take place at the Phoenix Convention Center – North Building unless noted otherwise

SATURDAY, FEBRUARY 28, 2009

6:00 a.m. – 7:00 p.m.	Guest Tour – <i>Grand Canyon*</i>
8:00 a.m.	Roy G. Post Foundation Fundraising Golf Tournament – <i>offsite at Raven Golf Club*</i>
1:00 p.m. - 5:30 p.m.	Registration Open – Level Three
5:00 p.m. – 9:30 p.m.	PAC Meeting and Dinner – Hyatt Regency Phoenix

SUNDAY, MARCH 1, 2009

8:30 a.m. – 3:00 p.m.	WMS Board of Directors Meeting – Hyatt Regency Phoenix
9:00 a.m. - 5:00 p.m.	"Nuclear Project Management - Keys to Success" Workshop*
9:00 a.m. – 5:00 p.m.	ANS Teacher Workshop – Level Two
1:00 p.m. – 8:00 p.m.	Registration Open – Level Three
2:00 p.m. – 3:30 p.m.	Student Assistant Training – Level Two
3:00 p.m. – 4:00 p.m.	Roy G. Post Foundation Trustees Meeting – Hyatt Regency Phoenix
3:00 p.m. – 4:00 p.m.	First Time Attendee Session – Level Two
4:00 p.m. – 4:45 p.m.	Volunteer and PAC Members Opportunities Session – Level Two
5:00 p.m. – 8:00 p.m.	Welcome Reception and Exhibit Hall Open – Level Three

MONDAY, MARCH 2, 2009

7:00 a.m. - 5:00 p.m.	Registration Open – Level Three
7:00 a.m. – 8:00 a.m.	Speakers Breakfast – Level Three
7:00 a.m. – 5:00 p.m.	Guest Tour – Sedona Red Rock Adventure*
7:30 a.m. – 11:00 a.m.	ASME Radwaste System Committee Meeting – Level Two
7:00 a.m. – 8:30 a.m.	Continental Breakfast – Level Three
8:00 a.m. - 10:00 a.m.	Opening Plenary Session – Level Three
9:30 a.m. - 6:00 p.m.	Exhibit Hall Open – Level Three
10:15 a.m. – 5:00 p.m.	Technical Sessions 2-22 – Level Two
12:00 p.m. - 1:30 p.m.	Keynote Luncheon – Level Three
2:30 p.m. – 3:30 p.m.	Refreshment Break – Level Three Exhibit Hall & Level Two Posters
4:30 p.m. - 6:00 p.m.	International Welcome Reception in Exhibit Hall – Level Three
6:00 p.m. – 7:30 p.m.	Students and Young Professionals Networking – Level Two

TUESDAY, MARCH 3, 2009

7:00 a.m. – 8:00 a.m.	Speakers Breakfast – Level Three
7:00 a.m. - 5:00 p.m.	Registration Open – Level Three
8:00 a.m. – 9:00 a.m.	Refreshment Break – Level Three Exhibit Hall & Level Two Posters
8:30 a.m. - 5:00 p.m.	Technical Sessions 23-50 – Level Two
9:00 a.m. – 5:00 p.m.	IFSOU Meeting – Level Two
9:00 a.m. – 1:00 p.m.	Guest Tour – Heard Museum*
9:30 a.m. - 6:00 p.m.	Exhibit Hall Open – Level Three
12:00 p.m. - 1:30 p.m.	Honors and Awards Luncheon – Level Three
2:30 p.m. – 3:30 p.m.	Refreshment Break – Level Three Exhibit Hall & Level Two Posters
4:30 p.m. - 6:00 p.m.	Best of Arizona Reception in Exhibit Hall – Level Three
6:00 p.m. - 7:30 p.m.	Women of Waste Management (WoWM) Networking Reception – Level Two

WEDNESDAY, MARCH 4, 2009

7:00 a.m. – 8:00 a.m.	Speakers Breakfast – Level Three
7:00 a.m. - 5:00 p.m.	Registration Open – Level Three
8:00 a.m. – 8:30 a.m.	Refreshment Break – Level Three Exhibit Hall & Level Two Posters
8:30 a.m. - 5:00 p.m.	Technical Sessions 51-78 – Level Two
9:30 a.m. - 12:30 p.m.	Exhibit Hall Open – Level Three
9:30 a.m. – 1:30 p.m.	Guest Tour – Shopping Tour to Scottsdale Fashion Square*
12:00 p.m. - 1:30 p.m.	ASME ICEM 2010 Orientation and Planning Meeting – Level Two
2:30 p.m. – 3:30 p.m.	Refreshment Break – Level Two Posters
6:30 p.m. - 10:30 p.m.	Corona Ranch Event – <i>offsite at Corona Ranch</i>

THURSDAY, MARCH 5, 2009

7:00 a.m. – 8:00 a.m.	Speakers Breakfast – Level Two
7:00 a.m. - 12:00 p.m.	Registration Open – Level Two
8:00 a.m. – 9:00 a.m.	Refreshment Break – Level Two
8:30 a.m. - 5:00 p.m.	Technical Sessions 79-81 – Level Two
8:30 a.m. – 5:00 p.m.	"Practical Radiation Safety Training" Workshop - Canceled
9:30 a.m. – 10:30 a.m.	WMS Web Training for New Authors and Volunteers – Level Two
10:30 a.m. – 2:00 p.m.	WM2010 PAC Meeting and Luncheon – Level Two

Please refer to the tri-fold schedule provided in your registration packet and signage for specific room assignments

* - Separate Registration Fees

WM2009 PROGRAM ADVISORY COMMITTEE (PAC)

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Jennifer Biedscheid, Washington TRU

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Dale Bignell, Washington Closure

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Tom Brouns, Battelle/PNNL

Steve Brown, SHB Inc.

Frazier Bronson, Canberra

Patricia Bubar, US NRC

Connie Callan, National Educational Technology Solutions

Larry Camper, US NRC

Grant Charters, New Millennium Nuclear Technologies

Donald Clark, DEC Enterprises

Ray Clark, US EPA

Hans Codee*, CORVA N.V.

John Coffman, DeNuke Services

Judy Connell, Fluor Government Group

Michael Connolly, Battelle Energy Alliance

James Cook, SRNL (Retired)

John Dalton*, UK NDA

Dorothy Davidson, AREVA NP

Ed Day, Pell Resources

Ramesh Dayal*, SENES Consultants

Rick Demmer, INL

Murthy Devarakonda, Washington TRU Solutions, LLC

Jas Devgun, Sargent & Lundy, LLC

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Critz George, Consultant

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Sue Mitchell, GEM Technologies

Sitakanta Mohanty, Center for Nuclear

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Barry Moravec, MSE Tech. Applications

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Kirk Owens, SAIC

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Sylvain Saint-Pierre*, WNA

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Detlef Schmidt*, Nuclear Projects

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Stewart Smith, Hydro Geo Chem

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Wolfgang Steinwarz*, Siempelkamp

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Andrew Szilagyi, US DOE

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Alex Thrower, US DOE - YMP

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Christopher Timm, Pecos Management

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Julia Tripp, INL

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Luis Valencia*, Forschungszentrum

Karlsruhe GmbH

Rik Vanbrabant*, Belgoproces

George Vandegrift, ANL

Tjalle (Chuck) Vandergraaf, Providence

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Donald Wood, GaeaTech Services

Chuan-Fu Wu, US DOE

Richard Yoshimura, SNL

M. Bernie Zgola*, CNSC

Ming Zhang*, AIST

* = International Members

The 2009 Track Co-chairs are shown in bold

In addition to the PAC Members listed above, WMS thanks all of the 2009 volunteer Organizers, Session Sponsors, Paper Reviewers, Panel Reporters, and Session Co-Chairs. Their names are listed in the technical program by session.

If you're interested in learning more about WM Symposia and the opportunities to volunteer at the annual conferences, plan to attend the **Volunteer & Program Advisory Committee (PAC) Members Opportunities Session 4:00 PM – 4:45 PM on Sunday, March 1, 2009.**

MEETING INFORMATION

REGISTRATION CATEGORIES

Full Technical Registration includes four days of the conference, receptions, Monday and Tuesday lunches and proceedings as well as the Wednesday evening event.

Two Day Technical Registration includes two days of the conference, receptions, lunches and proceedings. You may register for Monday and Tuesday or Tuesday and Wednesday. If registering for Monday and Tuesday, Sunday night's Welcome Reception is included. If registering for Tuesday and Wednesday, the Wednesday evening event is included.

One Day Technical Registration includes one day of the conference, reception, lunch and proceedings. If registering for Wednesday, Thursday attendance and the Corona Ranch event are included.

Student and Retired Professional Registration - see Full Technical Registration description above. Open to full-time students only.

Speakers/Panelists - please note that all attendees of the WM2009 conference, *including speakers and panelists*, must register for the conference in one of the above listed categories.

Exhibit Hall Only Registration - access to exhibit hall only including refreshment breaks and receptions on Sunday, Monday and Tuesday evenings. No access to technical sessions except specially noted in program schedule.

Guest Registration – access to social events include Sunday, Monday and Tuesday evening receptions in the Exhibit Hall as well as the Wednesday evening event. WMS reserves the right to limit guest participation. Guests are defined as spouses and significant others and are **NOT BUSINESS ASSOCIATES!** Co-workers or associates in the industry do not apply. No one under the age of 18 years old is permitted to attend the conference.

REGISTRATION FEES

	Onsite Fees
Full Technical	\$995
2 Day Tech – Monday/Tuesday or Tuesday/Wednesday	\$795
1 Day Tech – Monday, Tuesday or Wednesday	\$650
Full-Time Student	\$35
Sunday Workshop: Nuclear Project Management	\$195 each
Exhibit Hall Only	\$495
Guest Registration	\$175
Lunch Ticket – Monday or Tuesday	\$50 each
Corona Ranch Event Wednesday	\$75 each

WM2009 REGISTRATION DESK HOURS

Saturday, February 28. 1:00 PM – 5:00 PM
 Sunday, March 1. 1:00 PM – 8:00 PM
 Monday, March 2 7:00 AM – 5:00 PM
 Tuesday, March 3 7:00 AM – 5:00 PM
 Wednesday, March 4 7:00 AM – 5:00 PM
 Thursday, March 5 7:00 AM – 12:00 PM

MEETING INFORMATION

HOTEL ACCOMMODATIONS

Hyatt Regency Phoenix www.HyattPhoenix.com
122 North Second Street, Phoenix, AZ 85004
P: +1 602-252-1234 F: +1 602-254-9472

Wyndham Phoenix www.wyndham.com
50 East Adams Street, Phoenix, and AZ 85004
P: +1 602-333-0000

Hilton Suites Phoenix www.hilton.com
10 East Thomas Road, Phoenix, AZ 85012-3114
P: +1 602-222-1111 F: +1 602-265-4841

**SpringHill Suites by Marriott Phoenix
Downtown** www.springhillsuites.com
802 E. Van Buren St., Phoenix, AZ 85006
P: +1 602-307-9929 F: +1 602-307-9964

**Holiday Inn Express Hotel & Suites Phoenix
Downtown** www.ichotelsgroup.com
620 N. Sixth Street, Phoenix, AZ 85004
P: +1 602-452-2020 F: +1 602-252-2909

Radisson Phoenix City Center
www.radisson.com/phoenixaz_citycenter
3600 North 2nd Avenue, Phoenix, AZ 85013
P: +1 602-604-4900 F: +1 602-604-4901

Fairfield Inn and Suites www.marriott.com
2520 North Central Avenue, Phoenix, AZ 85003
P: +1 602-716-9900 F: +1 602-716-9909

Radisson Hotel Phoenix Airport North
www.radisson.com/hotels/azphxapn
427 North 44th Street, Phoenix AZ 85008
P: +1 602-220-4400 F: +1 602-244-2325

TRANSPORTATION

Phoenix Sky Harbor International Airport
<http://phoenix.gov/skyharborairport/>
3400 E. Sky Harbor Blvd, Suite 3300, Phoenix, AZ 85034 P: +1 602-273-3300

Sky Harbor is conveniently located just three miles east of downtown Phoenix. The airport has three terminals – Terminal 2, Terminal 3 and Terminal 4 – each with its own parking garage, shops, restaurants, and ground transportation. Ground transportation includes light rail, shuttles, taxis and car rentals. Sky Harbor's easily accessible Rental Car Center houses all the airport rental car company counters and fleets. A multi-colored

"Rental Car Shuttle" provides free transportation from the airport curb at the baggage claim level to the Rental Car Center, just west of Sky Harbor.

CAR RENTAL DISCOUNTS

Avis 800-331-1600
www.avis.com Discount Code: D086775

Enterprise 800-736-8222
www.enterprise.com
Discount Code: 50C0395 Group Number: WMS

Hertz 800-654-2240
www.hertz.com Meeting CV Code: 19D0008

COPPER SQUARE DASH – DOWNTOWN SHUTTLE

Use the Copper Square DASH to explore downtown Phoenix and catch a ride to the State Capitol. Just look for the copper-colored DASH buses. One comes around every six minutes at any of the DASH stops that are marked by special signs. It's convenient, fast and **free** transit service provided by the city of Phoenix Public Transit Department with support from the Downtown Phoenix Partnership.

For current DASH route information, call +1 602-495-1500 or visit www.coppersquare.com.

SUPERSHUTTLE AIRPORT SERVICE

Advanced reservations, through www.supershuttle.com, are required for WM2009 discounted rates. Enter online discount code: **C2SFDG**.

\$12 per person/one way-All major credit cards and cash are accepted; pay online or directly to the SuperShuttle driver. Personal checks are NOT accepted on board.

Advance reservations are required for your return to the Airport. SuperShuttle Shared-Ride Van Service or Exclusive Van Service: Call +1 602-244-9000 at least 24 hours in advance of your departure time. Reservation agent will suggest pick up time from your hotel.

MEETING INFORMATION

METRO Light Rail www.valleymetro.org

METRO is the brand name for Phoenix's brand-new metro rail system, see the map enclosed.

The METRO light rail system features state-of-the-art vehicles that include oversized air conditioning units, tinted windows, and door entries level with station platforms for easy, no-step boarding. Each vehicle has interior and exterior security cameras, emergency intercom systems, audible station announcements, and lighted message boards.



The service day begins at 4:40 a.m. on all platforms. Trains depart all platforms for the last full-trip of the evening at 11 p.m., arriving at their respective ends-of-the-line at midnight.

METRO light rail and Valley Metro bus share the same fare system. An all-day pass for \$2.50 is good on both local bus and light rail.

Metro stations near the PCC: Van Buren and Central Avenues; Washington and Central Avenues; and 3rd Street and Jefferson.

Metro station near the Radisson City Center, Hilton Suites and Fairfield Inn: Thomas and Central Avenues.

Metro station near the Radisson Phx Airport North: 44th Street and Washington.

CONFERENCE PROCEEDINGS

The conference proceedings are included with a full technical registration. Following the conclusion of the conference, *approximately June 2009*, attendees will be mailed a CD-ROM of the conference proceedings to the address listed on their registration materials.

TAXIS

Three taxi companies have contracted with Sky Harbor Airport to provide service; you may choose any taxi you wish from the waiting line. Rates with AAA Cab are \$17.00 to the Hyatt, if requested before departure.

AAA Cab	+1 602-437-4000
Allstate	+1 602-275-8888
Discount	+1 602-266-1110

LUNCHES

Monday and Tuesday's Lunches are ticketed events and are included with a full technical registration. There is not a formal conference lunch on Wednesday, attendees are on their own.

Exhibitors who would like to purchase a ticket to either lunch may do so for \$50 onsite.

PCC FOOD COURT

Fresh Gourmet To Go:

Prepackaged sandwiches (\$7), wraps (\$7) and salads (\$8.25-\$10).

Crust:

16-inch pizzas (\$13.50-\$17.50); pasta (\$9-\$10); calzone-style wraps (\$8-\$9); salads (\$7-\$7.50).

Bistro on 3rd:

Combo meal - two sliders and either sweet potato or regular fries (\$9). Sliders include beef and cheese, with breaded chicken and blue-cheese sauce.

Urban Wok:

Combo meal - two entrees and rice (\$9). Entrees include beef and broccoli or orange peel chicken and pepper steak.

Tortillas:

Burritos (\$8), tacos (\$8), and quesadillas (\$8).

City Central Coffee:

Regular coffee (\$1.50, \$2 and \$2.50) and cappuccino (\$3.25, \$3.75 and \$4.25).

REFRESHMENT BREAKS

Plenary session beverages and pastries will be served Monday morning at 7 am outside the Plenary Session Room on the third level.

Refreshment breaks will be served Monday thru Wednesday at 8 AM and 2:00 PM and Thursday at 8 AM in the Exhibit Hall and near the session rooms on the second level.

MEETING INFORMATION

“INSIGHT” DAILY CONFERENCE NEWSLETTER

Editors: Linda Lehman and Linda Ulland
Volunteer Staff: Joy Shoemake, Mike Berriochoa
and Lynette Bennett
Design Layout by Pam Bradford

Insight, the WM Symposia daily conference newsletter, reports on technical topics addressed during the sessions, exhibitor and sponsor information, industry and important daily conference news and announcements. The newsletter will be published Sunday/Monday, Tuesday and Wednesday/Thursday during the conference.

Pick up your copy outside the Exhibit Hall on the third level and near the meeting rooms on the second level of the PCC.

SPEAKER AND CO-CHAIR CHECK-IN

WMS asks that all Presenters (oral, panelist and poster) and Session Co-Chairs check-in at the Presenter & Co-Chair Counter on the third level of the North Building so they may confirm their attendance and receive any updates on their sessions.

Speakers who are not checked in at least two hours before their session will have their presentation shown as canceled on the presentation boards at the session room entrance or their poster space canceled.

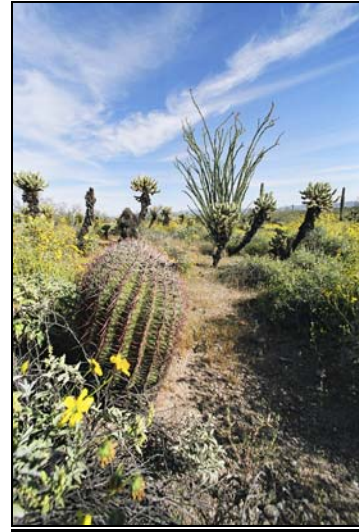
SPEAKER AND CO-CHAIR BREAKFAST

On the day of their presentations or sessions being co-chaired, all Presenters and Session Co-Chairs are required to attend the 7:00 AM Speakers' Breakfast at the PCC on the third Floor Level of the North Building. During the breakfast, tables will be assigned to each session so that all oral session and poster session Co-chairs, can sit down together with presenters and panelists for the sessions to discuss and organize their sessions.

CONFERENCE SUPPORT SERVICE CENTER

The UPS Store located in the PCC will provide copy services and is staffed M-F from 7:00 AM - 6:00 PM and Saturday from 8:00 AM - 1:00 PM. The UPS Store has a second location located in the lobby of the Hyatt Regency and can also provide

services M-F from 8:00 AM - 5:30 PM and Saturday from 9:00 AM - 1:00 PM.



WM2010 PLANNING DATES

Be sure to bookmark the WM Symposia's website at www.wmsym.org and check back for updates as we progress towards WM2010.

If you're interested in presenting at WM2010, mark your calendar for the deadline to submit an abstract. Potential authors are asked to submit an abstract between 400 – 800 words by the deadline of August 31, 2009.

The WM2010 Topic List will be posted on the website approximately April 2009, be sure to review for suggested topics.

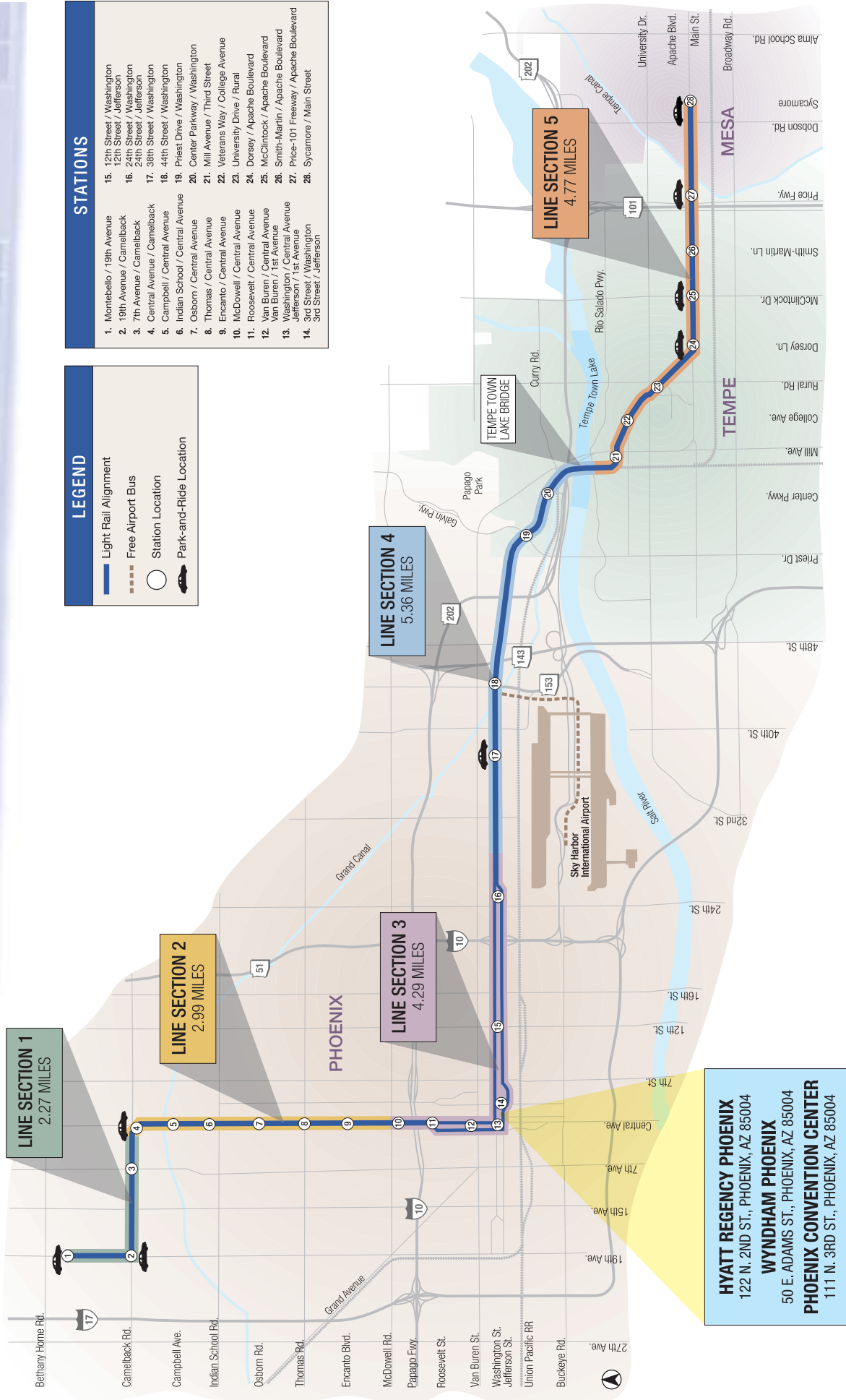
The Abstract Review Meeting will be held September 12 – 15, 2009 at the Doubletree Paradise Valley. More details will be provided for the PAC/IPAC members at the Thursday, March 5th meeting.

Exhibitors will be offered the opportunity to reserve booth space onsite during this conference. Open sell for new exhibitors will begin July 15, 2009.

WM2010 will be held March 11 – 15, 2010 at the Phoenix Convention Center – West Building. Registration will open approximately November 1st.



METRO LIGHT RAIL LINE



Phoenix Convention Center

WALKING & PARKING GUIDE -2009

▲ HILTON SUITES PHOENIX, FAIRFIELD INN & SUITES, RADISSON HOTEL PHOENIX CITY CENTER



- 1** **HYATT REGENCY PHOENIX**
122 N. 2nd Street ~ Phoenix, AZ 85004
- 2** **WYNDHAM PHOENIX**
50 E. Adams Street ~ Phoenix, AZ 85004
- 3** **REGENCY GARAGE**
121 E. Adams Street ~ Phoenix, AZ 85004
- 4** **PHOENIX CONVENTION CENTER - NORTH BUILDING**
111 N. 3rd Street ~ Phoenix, AZ 85004
- 5** **HOLIDAY INN EXPRESS**
620 N. 6th Street ~ Phoenix, AZ 85004
- 6** **SPRINGHILL SUITES**
802 E. Van Buren Street ~ Phoenix, AZ 85004
- B** Tour & Corona Ranch Bus
- M** Metro Station
- Pedestrian Route to West & South Buildings
- P** Parking Garages
- Parking Garage Entrance

WM2009 Conference

March 1-4, 2009

Phoenix Convention Center,
North Building Halls A, B and C



North

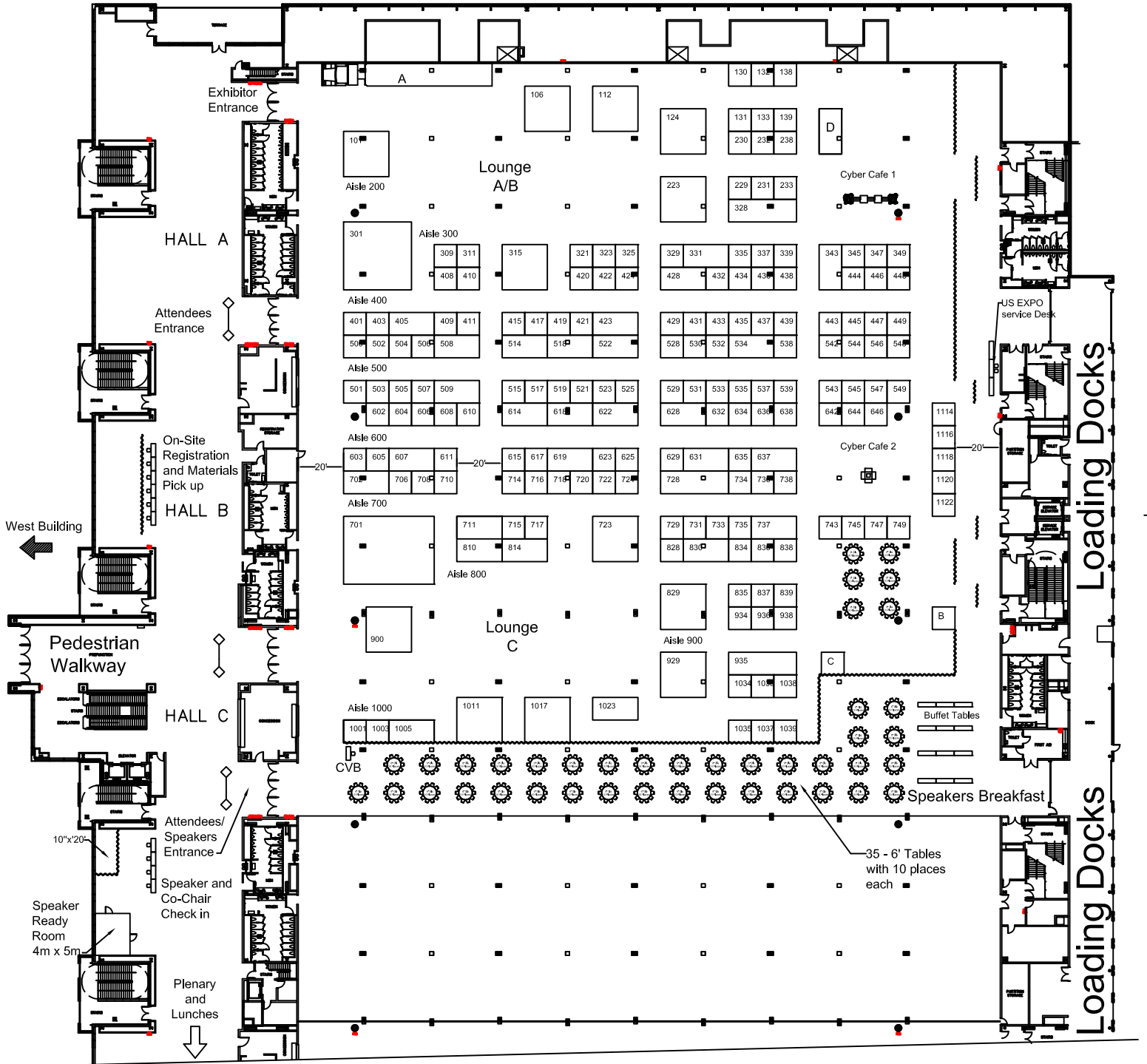


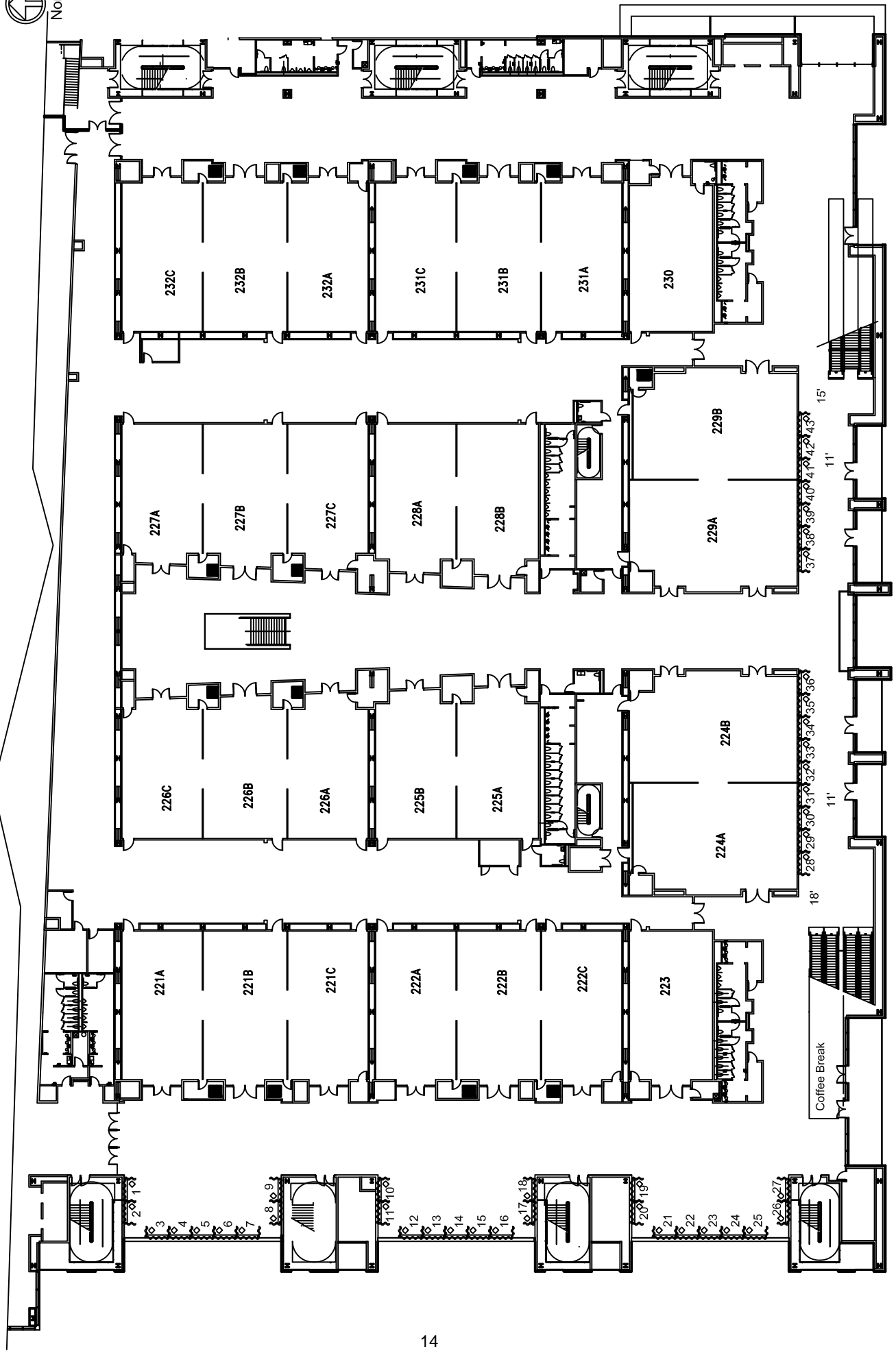
Exhibit Hours

Sunday, March 1, 2009	5:00 PM - 8:00 PM	(Opening Welcome Reception)
Monday, March 2, 2009	9:30 AM - 6:00 PM	(International Reception 4:30 pm - 6 pm)
Tuesday, March 3, 2009	9:30 AM - 6:00 PM	(Best of Arizona Reception 4:30 pm - 6 pm)
Wednesday, March 4, 2009	9:30 AM - 12:30 PM	

Waste Management 2009

March 1-4, 2009

Phoenix Convention Center, North Building Level 200



US EXPO & convention services ~ 43 - 8' Posterboard Booths ~ January 30, 2009
WM Phoenix CC North Build Level 200 Mar 1-4 09 REV B ~ (Subject to FM Approval)

Keynote Luncheon

MONDAY, MARCH 2, 2009

12:00 PM – 1:30 PM

PCC Level Three



Dr Peter A. Bleasdale
Managing Director
National Nuclear Laboratory

National Nuclear Laboratory: Vision to Reality

Peter Bleasdale is a Chartered Engineer with a PhD in Metallurgy from the University of Liverpool in the UK. He began his career in 1976 with the UK Government's Ministry of Defence. During his stay with the Ministry, Peter worked in a range of senior positions and ultimately carried responsibility for the procurement and stockpile management of all special nuclear materials, the nuclear waste management programme and oversight of the Atomic Weapons Establishment (AWE) research programme.

Peter joined nuclear fuel cycle services company British Nuclear Fuels plc (BNFL) in 1990. He initially managed the company relationship with the Ministry of Defence before being appointed Assistant Director, Commercial and Planning for the BNFL Fuel Division. Based at the Springfields site in the UK, the BNFL Fuel Division was a major supplier of fuel products and services to the nuclear market. Peter's contribution to the BNFL business was further recognised when he became Deputy Director, Fuel Division and BNFL's Head of Technology and Business Development.

In 1996, BNFL created an integrated Research and Technology (R&T) function to replace its existing multi-centred approach. Peter was appointed to lead the new function into a new era for the BNFL Group. In 2003, BNFL R&T was re-launched as Nuclear Sciences and Technology Services (NSTS) with Peter as Chief Executive. NSTS represented the introduction of greater commercial awareness and customer focus for the BNFL technology business group.

NSTS embraced the nuclear research activities of BNFL including the former Magnox Electric. Under Peter Bleasdale's leadership, the business made rapid commercial progress and added to its capability and portfolio with the acquisition of the Nuclear Science business of AEA Technology in late 2003. NSTS became a full BNFL subsidiary with a separate balance sheet in April 2005. The rebranded Nexia Solutions Ltd, driven by Peter Bleasdale as Managing Director, continued its development as a sustainable commercial company in a competitive marketplace.

Peter played a fundamental role in transforming Nexia Solutions into the UK's National Nuclear Laboratory (NNL). His enthusiasm, vision and leadership led to the creation and implementation of an NNL that will become an international centre of excellence in nuclear research and development. The Lab will play a vital role in cleaning up the UK's nuclear waste legacy and will make a major contribution to the programme of nuclear new build. The NNL will safeguard and develop the UK's high-tech nuclear expertise, facilities and skills.

Women of Waste Management (WoWM)

Women delegates to WM2009 – *and anyone interested in opportunities for women in our industry* – should not miss the **Women of Waste Management: Panel and Networking Reception** on Tuesday, March 3rd. The Panel will start at 6:00 PM and the reception follows immediately. Share experiences, network, and learn about opportunities for women at all levels of their careers from 6:00 PM – 7:30 PM.

Hosted by the Roy G. Post Foundation's Professional Opportunities Campus and organized by Post Foundation President Michelle Rehmann (Tetra Tech), this year's exciting roster of panelists brings diverse perspectives as veteran members of Government Congressional Affairs offices; leaders of environmental impact assessment teams; and rising stars in our industry. Our panelists are:

- Karen Patterson, Manager, Environmental Science Group - Tetra Tech
- Rebecca Schmidt, Director, Office of Congressional Affairs - US Nuclear Regulatory Commission
- Leah Spradley, Performance Assessment Branch, Division of Waste Management and Environmental Protection - US Nuclear Regulatory Commission

This panel and reception are open to all attendees and no pre-registration is required.



Karen Patterson
Manager,
Environmental Science Group
Tetra Tech

Karen Patterson is the Environmental Science Group Manager at the Aiken, South Carolina office of Tetra Tech NUS where she manages biologists, planners and socioeconomists engaged in environmental impact assessments. She manages preparation of DOE EISs, and environmental reports for commercial nuclear power plant license applications and extensions. With degrees from Randolph-Macon Woman's College, Wake Forest University, and the University of South Carolina, Karen thinks of herself a herpetologist, not a manager.

Devoting her career to assessing impacts of nuclear facilities, Karen has also served on Advisory Boards and Councils. Karen will offer insights on career opportunities based on her work as an environmental scientist engaged in the assessment of the impacts of the operation of nuclear facilities.



Rebecca Schmidt
Director, Office of Congressional
Affairs - US Nuclear Regulatory
Commission

Rebecca Schmidt has served as Director of the Office of Congressional Affairs at the US Nuclear Regulatory Commission since October 2005. Before this appointment, Rebecca served six years as Associate Director for Budget Presentation and Congressional Liaison in the Office of the Under Secretary of Defense (Comptroller). She began her federal career in 1983 as a Presidential Management Intern with the Department of the Army. Since that time, she has held a number of progressively more responsible positions including, Chief Management Division, Directorate of Resource Management, US Army Support Command, Hawaii; Senior Defense Analyst and Senior International Analyst, Committee on the Budget, US House of Representatives; Senior Professional Staff Member to the House Armed Services Committee; and Budget Analyst, Office of the Under Secretary of Defense (Comptroller).

A native of Ohio, Rebecca received a Bachelor's degree in Political Science from Wittenberg University and a Master's degree in Public Policy Analysis from Duke University.



Leah Spradley
Performance Assessment Branch,
Division of Waste Management and
Environmental Protection
US Nuclear Regulatory Commission

Leah Spradley recently completed a PhD in environmental engineering and management from Vanderbilt University. Her graduate studies related to the nation's proposed high-level waste repository at Yucca Mountain.

After receiving a 2008 Roy G. Post Foundation scholarship, she applied the funding towards visiting nuclear waste facilities in Sweden and Finland – and she will share the career perspectives she gained from those visits during this panel. Leah now works for the US Nuclear Regulatory Commission in the Division of Waste Management and Environmental Protection, where she reviews and develops computer models to predict the long-term risk of radioactive waste facilities.

Wednesday, March 4, 2009



7611 South 29th Avenue, Phoenix, AZ 85339
602-237-3303 www.coronaranch.com

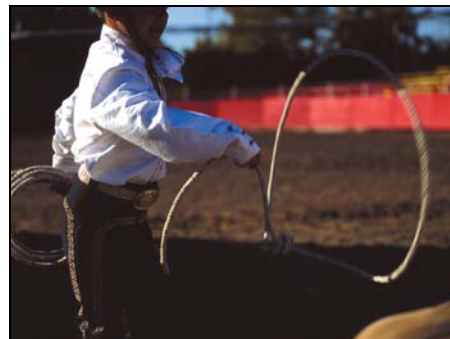
6:00 pm – 6:45 pm Transportation
6:30 pm – Reception and Trick Roping Trio
7:15 pm – Buffet Dinner
8:00 pm - Ballet Folkloric Dancers

Enjoy a wonderful evening at the Ranch at this year's Mexican Fiesta! WM2009 will host an evening at Corona Ranch that will feature a reception and buffet dinner.

Buses will pick up from the Hyatt Regency Phoenix starting at 6:00 pm – 6:45 pm. The event will begin with cocktails at 6:15 pm.

Buses will return guests to the conference hotels (Hyatt, Wyndham and SpringHill Suites) beginning at 8:30 pm. The last bus will depart Corona approximately 10:15 pm. Drivers may pick up directions at the Registration Desk.

A full technical registration or guest registration includes this event. Additional guest tickets may be purchased onsite at the Registration Desk for \$75 each. Event ticket includes 2 drink tickets (beer, wine, margarita, soft drink or water); a cash bar is available for all other beverages.



Buffet Dinner Menu

Tri-Colored Tortilla Chips with Salsa Fresca
Corona Ranch Salad
Baby Greens Garnished with Feta Cheese, Roasted Red Peppers,
Grape Tomatoes and Cucumbers served with Balsamic Vinaigrette
Chicken Enchiladas laced with Cilantro Sour Cream
Sonoran Grilled Salmon served with Pineapple Pico de Gallo
Grilled Ancho Chili Flank Steak
Topped with Onions and Red & Green Bell Peppers
Poblano Chile Rice
Black Beans served with Oaxaca Cheese
Assorted Rolls and Butter
Margarita Cheesecake
Coffee / Tea Service

SCHOLARSHIPS, HONORS AND AWARDS

In keeping with the WMS' mission of providing education and opportunity, the following awards and scholarships will be presented during Tuesday's Honors and Awards Luncheon.

SCHOLARSHIPS

Roy G. Post Foundation Scholarships

The Roy G. Post Foundation is a non-profit corporation formed by his students, peers and protégés to provide scholarships to students to develop careers in the safe management of nuclear materials and to participate in the annual WM Symposium.

Students enrolled in secondary educational programs in technical or policy fields with the objective of contributing to the safe management of nuclear materials are eligible for these scholarships, awarded in memory of Dr. Roy G. Post. Dr. Post was the founding chief executive of WM Symposia, the sponsor of the annual international Waste Management conference.

The Scholarships and the Foundation carry on Dr. Post's vision of education in this field, to honor the Founder of the annual Waste Management Conferences. The Roy G. Post Foundation is a 501c3 tax-deductible Foundation dedicated to education in the safe management of nuclear material.

The Foundation is honored to announce the 2009 Roy G. Post Foundation Scholarship Receipts:

Joshua Jarrell

Joshua Jarrell attended Marcus High School in Flower Mound, TX, graduating in May 2002. In May 2006, he graduated with a Bachelors in Nuclear Engineering and a Minor in Mathematics from Texas A&M University. He has spent his summers working at Texas A&M working on efficient computational methods under the Undergraduate Summer Research Grant (USRG); interning at the Space Propulsion group at Knolls Atomic Power Laboratory (KAPL) and the Westinghouse Dallas office where he worked on the modeling of boron induced offset anomaly. That fall, he began working on his PhD at Texas A&M on the Naval Nuclear Propulsion Fellowship. The summer of 2007, he worked at Bettis Atomic Power Laboratory in the Shielding group. This past summer, he interned at KAPL in the Nuclear Methods group.

Joshua has finished all classes required for a PhD. He is researching his PhD topic, "*Adaptive Angular Discretization Methods for Deterministic Neutral Particle Transport.*" This topic addresses a more effective way to computationally model nuclear systems that have drastically different material properties in the system. As he continues his career, he has come to realize that more accurate, faster modeling of nuclear systems is desired in all sectors of the nuclear field. He hopes to graduate August of 2010 with his PhD and continue working on computational methods.

Haruko Murakami

Haruko Murakami is currently a PhD Candidate in Nuclear Engineering at the University of California Berkeley. She received her Bachelor's degree in Engineering from Kyoto University, Japan in 2003. Prior to joining UC Berkeley, she worked as a research intern at Schlumberger-Doll Research and the Argonne National Laboratory. She received her Master's degree in Nuclear Engineering in 2006, and the Jane Lewis Fellowship 2006-2008.

Her main research interests are probabilistic environmental risk assessment of nuclear related facilities, and the development of models to optimize site characterization strategies for the assessment and to evaluate engineering systems for the risk mitigation. They involve a wide range of scientific areas such as nuclear geophysical techniques, geostatistics, and stochastic hydrogeology. She has been involved in the assessment of the high-level radioactive waste repository in Japan and also in the Integrated Field Research Challenge (IFRC) project at the Hanford 300 area.

Rubina Rahman

Rubina Rahman completed her Bachelor of Science (BSc) and Master of Science (MSc) degrees in Physics from Jahangirnagar University, Bangladesh and stood first class position in both examinations. She completed her MSc thesis in the Environmental Radioactivity field. She began her career in 1997 as a Research Officer, working on Solar-home system design with an American Fulbright Fellow and in association with Grameen Shakti, a sister organization of Grameen Bank, Bangladesh for a year just before getting her MSc result. After that Rubina worked for a year in another renowned research organization, BCAS of Bangladesh, in the renewable energy sector. After that she joined as a Lecturer of Physics in two Universities of Bangladesh and taught BSc Honors students for one and half years.

SCHOLARSHIPS, HONORS AND AWARDS

She joined the Health Physics Division, Bangladesh Atomic Energy Commission as Scientific Officer in 2000 and now she is a Senior Scientific Officer and also an active member of environmental radioactivity monitoring group of the Division.

At present, Rubina is on study-leave and pursuing her PhD on Environmental Radioactivity from University of Liverpool, United Kingdom taking ORSAS and University of Liverpool International scholarships. The title of her PhD project is "*Potential Radioactivity Exposure and Health Impacts from Living near Sellafield-Contaminated Salt Marshes and Mudflats*". The main objective of the study is to assess in detail the exposure and health impacts of living near Sellafield-contaminated salt marshes and mudflats with respect to potential remobilization of radionuclides as a consequence of climate change and sea-level rise.

Paul Romano

Paul completed his undergraduate education at Rensselaer Polytechnic Institute, earning Bachelor's degrees in Nuclear Engineering and Applied Mathematics. He is currently in his second year at the Massachusetts Institute of Technology pursuing a Ph.D. in Nuclear Science and Engineering specializing in Monte Carlo neutron transport methods. In addition to his studies at RPI and MIT, Paul has interned at the U.S. Nuclear Regulatory Commission in the Office of Nuclear Reactor Regulation and the Office of Nuclear Security and Incident Response as well as Knolls Atomic Power Laboratory.

Paul has been active in the American Nuclear Society, previously serving as Vice-President, Treasurer, and Webmaster of the student chapter at RPI and currently the Co-President of the student chapter at MIT. He has also been an advocate for nuclear engineering programs through his work with the Nuclear Engineering Student Delegation, a student group that meets with policymakers in Washington, D.C. each year. Paul hopes to continue researching computational methods for research physics in a position at a national laboratory or in academia following his graduation and aspires to become involved with national energy policy later in his career.

Brooke Traynham

Brooke's scientific interests are wide-ranging, but center on the interface between the physical and biological components of an ecosystem. While her early studies led her to oceanographic inquiries, she is now focused on terrestrial ecosystems that serve as long-term storage facilities for hazardous waste.

She received a bachelor of science from Emory University with a major in Environmental Science and Sociology and went on to receive a master's degree in Earth and Environmental Sciences from Vanderbilt University. She is a SCUBA instructor and taught SCUBA in the PE department at Emory U.

She went on to become a scientific diver at the Darling Marine Center in Maine, concentrating on ecology and management of the American lobster and the green sea urchin throughout the Gulf of Maine. From there, she moved to Archbold Biological Station's MacArthur Research Center to work on a study of nutrient dynamics on a Florida cattle ranch. These early experiences gave her the opportunity to conduct field experiments and set up laboratory studies she helped prepare her for graduate research.

Brooke is in the final year of doctorate studies at Vanderbilt with a joint degree in Civil and Environmental Engineering and Earth and Environmental Science. Her current work focuses on the long-term performance of engineered barriers, specifically on the role of ecological processes on performance. She is interested in developing a model that incorporates dynamic interactions by ecological components, and hopes to bring a unique perspective to the challenges of long-term waste storage and monitoring.

Mitchell T. Young

Mitchell T. Young is a 21 year old undergraduate Nuclear Engineering student at Oregon State University. Born and raised in Seattle, WA, he initially became interested in nuclear technology while researching the subject for a high school chemistry project. Currently residing in Corvallis, OR, Mitchell has been working under Dr. Brian Woods on the Multi-Application Small Light Water Reactor (MASLWR) Project since the Sprint of 2008.

After attaining his undergraduate degree in Nuclear Engineering, he plans to pursue a Masters Degree with a focus in either reactor physics or fusion. Upon finishing his formal education, Mitchell aspires to be a researcher in the field of nuclear fusion power. It is his hope that developing such a technology would alleviate many of the waste management issues that we face today as a result of fission power generation.

SCHOLARSHIPS, HONORS AND AWARDS

Also to be presented at the luncheon:

WM Symposia and James A. Glasgow Scholarship

This scholarship is given recognition of the contributions of James Glasgow, Esq., in support of WMS, and is designed to assist a second or third year law student who demonstrates a meaningful interest in environmental law.

BEST PAPER, ORAL AND POSTER AWARD WINNERS 2008

ORAL PRESENTATIONS

“An Integrated Tool for Evaluating Pre-Closure Operational Performance of the Yucca Mountain Waste Management System”

Presented by **Leah Spradley**, Mark Abkowitz, James Clarke, Vanderbilt University (USA). Session 44, Abstract 8037. (Session Sponsor: Robin Sweeney).

Honorable Mention Oral Paper Presentation

“Shielded Payload Containers will Enhance the Safety and Efficiency of DOE's Remote Handled Transuranic Waste Operations”

presented by Roger Nelson, US DOE (USA); Sean White, Washington Regulatory and Environmental Services (USA). Session 59, Abstract 8199. (Session Sponsor: Chuan-Fu Wu).

POSTER PRESENTATIONS

First Place – ANS Poster, Track 7.

“Generating the Right PCB Data: Determination of Aroclors Versus PCB Congeners”- Abstract 8075. Jeannette Hyatt, Cliff Narquis, Andrea Prignano, Fluor Hanford (USA).

Second Place – ASME Poster, Track 5.

“Development of Tritium Storage and Transport Vessels” - Abstract 8128. Seungwoo Paek, Min Soo Lee, KAERI (Republic of Korea).

Third Place – Track 8.

“Simulation and Optimization of Large Scale Subsurface Environmental Impacts; Optimal Investigations, Remedial Design and Long Term Monitoring” - Abstract 8330. Larry Deschaine, Science Applications International Corporation (USA).

AWARDS TO BE PRESENTED

Please join us for the Awards and Honors Luncheon on Tuesday, March 3 at 12:00 PM. The Award winners will be featured in the luncheon program distributed onsite.

WMS Program Advisory Committee Award

WMS has established the Program Advisory Committee (PAC) Award to annually recognize an individual whose outstanding contributions have helped make and keep the annual Waste Management Conference the world's premier technical conference on the management and disposal of nuclear waste.

The first WMS PAC Award was given to Dr. Mort Wacks at WM'03, in recognition of his significant contributions in establishing and maintaining the Waste Management technical conference.

WMS Wendell D. Weart Lifetime Achievement Award

The WMS Wendell D. Weart Lifetime Achievement Award recognizes the long-term commitment of the recipient to solving major nuclear waste challenges, which may include education, research, public policy, or implementation of solutions for managing nuclear wastes, and whose actions have contributed to the resolution of significant nuclear waste management issues.

Sandia has sponsored the Wendell D. Weart award for the last four years, and the awarded has been formally adopted by WMS with continued sponsorship by Sandia.

WMS/ASME Sarge Ozker Award

Named in honor of M. Sacid (*Sarge*) Ozker and established in 1980, this award is bestowed for distinguished service and eminent achievement in the commercialization of nuclear power/ energy with particular emphasis in the field of radioactive waste management.

It is presented by the Nuclear Engineering Division - Radwaste Systems Operating Committee of the American Society of Mechanical Engineers (ASME).

SPECIAL MEETINGS, TRAINING AND WORKSHOPS

SATURDAY, FEBRUARY 28, 2009

5:00 PM – 9:30 PM

PROGRAM ADVISORY COMMITTEE MEETING

This pre-conference meeting will be held at the Hyatt Regency Phoenix. A separate invitation will be sent to all PAC members and volunteers, with their guests on the event details.

SUNDAY, MARCH 1, 2009

9:00 AM – 5:00 PM

NUCLEAR PROJECT MANAGEMENT - KEYS TO SUCCESS

This short course will focus on Project Management in the nuclear environment with special emphasis on keys to successful projects. In addition to recapping fundamentals of project management, the course will include discussion of how nuclear projects are different, why many projects fail, how to manage risks in projects, what are the keys to successful projects, and how one can use practical project management tools in the field.

The course agenda will cover the following topics:

- Project Management fundamentals and what is different in nuclear projects
- Managing nuclear safety
- Managing risks in projects- schedules, budgets, resources, and constraints
- Why projects fail and what are the keys to success
- Performance Management and Corrective Action.
- Practical tools for application in the field
- Case Histories – Nuclear Projects: New Build Projects, Power Plant Modifications, Remediation & Waste Management, Decommissioning Projects

The course will be directed by Dr. Jas Devgun; Bernard Kelly, University of Manchester; Maria Lindberg, Studsvik; Keith Peacock, NASA and Stuart Walker, US EPA will also present.

The course is sponsored by WM Symposia as a service to the nuclear community. Onsite registration may be available, please check with the Registration Desk for more details. Registration Fee: \$195.00

SUNDAY, MARCH 1, 2009 CONTINUED

2:00 PM – 3:30 PM

STUDENT ASSISTANT TRAINING SESSION

This pre-conference meeting will be held on level two of the PCC. All students scheduled as a Student Assistant for sessions should attend. For more information on volunteering as a Student Assistant during the conference, please see the Speaker & Co-Chair Check-In Desk.

4:00 PM – 4:45 Pm

VOLUNTEER & PROGRAM ADVISORY COMMITTEE (PAC) MEMBERS OPPORTUNITIES SESSION

Open to everyone interested in learning more about WM Symposia and the opportunities to volunteer at the annual conferences. The PAC helps create the technical program and assists onsite at the conference. We'll cover the opportunities to volunteer and what all is involved.

5:00 PM – 8:00 PM

WELCOME RECEPTION

Officially opening the conference and Exhibition Hall at the PCC Level Three. Come visit the more than 175 exhibitors in the WM2009 Exhibition and Marketplace and meet new and old friends. The Registration Desk is open from 1:00 PM on, so stop by and pick up your badge anytime before the reception starts. Light hors d'oeuvres will be served.

MONDAY, MARCH 2, 2009

7:30 AM – 11:00 AM

ASME RADWASTE SYSTEMS COMMITTEE MEETING

The annual meeting of the ASME Radwaste System Committee will be held on Monday morning, beginning with a Continental Breakfast.

SPECIAL MEETINGS, TRAINING AND WORKSHOPS

MONDAY, MARCH 2, 2009 CONTINUED

8:00 AM – 10:00 AM

WM2009 PLENARY SESSION

The WM2009 Plenary Session will feature world leaders speaking on the pressing issues being faced by Waste Management in 2009 and beyond.



Gregory B. Jaczko

Commissioner
US Nuclear Regulatory Commission



Inés R. Triay

Principal Deputy Assistant
Secretary
US Department of Energy –
Environmental Management



Bill Gallo

President
AREVA Federal Services LLC

Join your fellow delegates on level three of the PCC for Continental Breakfast before the program begins.

4:30 PM – 6:00 PM

INTERNATIONAL WELCOME RECEPTION

We are appreciative of our international delegates for their participation and contributions that make WM2009 a truly worldwide event. You are encouraged to attend this year's reception, recognizing our 600+ non-US attendees. Traveling to Phoenix from over 40 countries, these attendees represent many ongoing and emerging markets. In keeping with WMS' mission of education and opportunity, participation of a number of these global delegates is sponsored by the IAEA and WMS. Light hors d'oeuvres will be served.

MONDAY, MARCH 2, 2009 CONTINUED

6:00 PM – 7:30 PM

STUDENT AND YOUNG PROFESSIONALS NETWORKING RECEPTION

All students, young professionals and conference attendees looking to hire – plan to mix and mingle, just after the close of the International Welcome Reception. Here's your chance to meet our student attendees and find out more about the next generation of WM professionals.

TUESDAY, MARCH 3, 2009

4:30 PM to 6:00 PM

BEST OF ARIZONA RECEPTION

Experience the Southwest - we'll highlight the State of Arizona, serving hors d'oeuvres from around this great state, and beverages including Margaritas.

6:00 PM – 7:30 PM

WOMEN OF WASTE MANAGEMENT: PANEL AND PROFESSIONAL NETWORKING RECEPTION

Women delegates - and anyone interested in opportunities for women in our industry – should attend the. The Panel will start at 6:00 PM and the reception follows immediately in the same room. Share experiences and learn about opportunities, while enjoying a glass of wine and light hors d'oeuvres. For more details on our speakers, please see the individual listing for WoWM.

6:00 PM – 10:00 PM

CORONA RANCH EVENT

Plan to join us for this great evening under the stars at Corona Ranch located next to South Mountain. Buses will pick up in front of the PCC on Third Street beginning at 6:00 PM so you'll have plenty of time to wrap up your day and change into comfortable clothes for a night out.

For more details on the event, please see the individual listing including the menu for the Corona Ranch event.

Be sure to bring a jacket as the event is an indoor/outdoor venue.

SPECIAL MEETINGS, TRAINING AND WORKSHOPS

THURSDAY, MARCH 5, 2009

10:30 AM – 2:00 PM

WM2010 PROGRAM ADVISORY COMMITTEE MEETING AND LUNCHEON

This conference wrap-up meeting and planning for WM2010 will be held at the PCC. PAC Members will be sent a separate invitation and agenda. Lunch will be provided.

PRACTICAL RADIATION SAFETY TRAINING – REFRESHER ON THE BASICS AND ALL THE LATEST INFORMATION

This workshop has been canceled and will not be presented at WM2009.

CONTRACTING OPPORTUNITIES SESSIONS

WM2009 will be the place to hear all the latest contracting updates, with five special sessions dedicated to contracting opportunities. Contracting officers will present procurement plans and be available for questions. Here's your chance to hear the current information from around the world, all in one place, at one conference.

These sessions are open to everyone registered for WM2009, including exhibitors:

- Tuesday afternoon - Session 38
Contracting Opportunities in the UK with the Nuclear Decommissioning Authority (NDA)
- Wednesday Morning – Sessions 51 & 52
US DOE and DOE Contractor's Procurement and Contracting Opportunities
- Wednesday Afternoon – Session 68B
US DOE Oak Ridge Cleanup Plans and Contracting Opportunities: IFDP and ETPP
- Thursday Morning – Session 79
Federal Government Contract "Capture" Workshop

ADDITIONAL MEETINGS

Additional Meetings will held in conjunction with WM2009 – EFCOG, US DOE and more – please check the signage onsite for more information on the room assignments for these side meetings.

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PACTEC

IFSROUP MEETING

The **International Forum on Sustainable Options for Uranium Production (IFSROUP)** is holding a meeting during WM2009 on Tuesday, March 3, 2009. It will be facilitated by Rod Grebb and Michelle Rehmman.

During its first year, IFSROUP has held several meetings in the Americas and one in China, and has presented the IFSROUP mission, objectives and plans to the US Nuclear Regulatory Commission. IFSROUP has fostered discussion for development of safe, environmentally protective, sustainable uranium production practices. IFSROUP continues to garner growing support of many involved in uranium matters.

IFSROUP serves as a focal point for industry, regulators, and NGOs to discuss relevant issues on environmental and social aspects of uranium production and to disseminate, by means of panels, workshops, and other means, good production practices. It also serves as a vehicle to lead industry, regulatory bodies, and NGOs to find

consensus on mechanisms to assure the sustainability of uranium production. Topics will focus on current issues facing uranium mining and implementing sustainable mining practices.

IFSROUP fills gaps in scope of other initiatives, and in providing concrete guidance, focusing on development of technologies, so that operators would develop good operations – with a view that compliance with regulatory/safety standards would be a minimum requisite; and with the challenge being to do so in an economically feasible way.

The IFSROUP meeting will conclude with a discussion of key topics, conclusions, and plans for future gatherings. Meeting summaries will be prepared for participants. WM2009 registrants wishing to listen in on IFSROUP presentation and panel discussions are welcomed and encouraged to do so. The preliminary agenda is shown below. A final agenda will be available at the WM2009 registration desk.

Preliminary Agenda and List of Speakers (as of January 30, 2009)

Start	End	Subject	Speaker
08:30	09:00	Registration, Coffee/Networking	
09:00	09:15	Welcome - IFSROUP Overview, History, and Objectives	Michelle Rehmman, WM Symposium
MORNING SESSION			
09:15	09:30	Basic Concepts of Sustainability	Caitlin Rood, Tetra Tech
09:35	09:50	Current Issues in Uranium Recovery	Rod Grebb, Tetra Tech
09:55	10:10	Update on NRC Uranium Recovery Program	Larry Camper, US NRC Division of Waste Management and Environmental Protection
10:15	10:45	Refreshment Break	
10:50	11:05	NRC Perspectives on Communicating with Stakeholders outside of the Regulatory Field	Eliot Brenner US NRC Office of Public Affairs
11:10	11:25	NRC Congressional Affairs Perspectives on Sustainable Uranium Recovery	Rebecca Schmidt, US NRC Office of Congressional Affairs
11:25	11:50	Discussion - Audience	All
11:50	13:40	Lunch Break	
AFTERNOON SESSION			
13:40	13:55	Excess Uranium Stockpile Dispersion and its Effect on Domestic Production	Mark Gilbertson, US DOE (<i>invited</i>)
14:00	14:15	Sustainable Uranium Production at a New Site	Patrick Wales, Virginia Uranium Inc.
14:20	14:35	Native American Perspectives on Sustainable Uranium Mining and the Nuclear Fuel Cycle	Mervyn L. Tano, Esq., International Institute for Indigenous Resource Management
14:40	14:55	Sustainability, Uranium, and Mining	Helen Neill, UNLV, Environmental Studies
15:00	15:30	Refreshment Break	
15:30	15:45	A Perspective on Sustainable Uranium Mining in Africa	Alliyu Ismaeel Olaide and Kagimy Kanyike (<i>invited</i>)
15:50	16:05	Legacy Sites and Sustainability	John Dalton, Nuclear Decommissioning Authority, UK (<i>invited</i>)
16:10	16:30	Discussion – Audience	All
16:30	16:40	Summary of Meeting and Closing Remarks	Michelle Rehmman
16:40	16:50	Discussion – Audience	All

GUEST TOURS AND PHOENIX AREA ACTIVITIES

All tours depart from the lobby of the Hyatt Regency Phoenix. Transportation, guide, admission and bottled water are included. Boarding time is 15 minutes prior to scheduled departure. Be sure to pack a jacket, hat and your camera.

Due to limited space, tours may not be available onsite. Please check with the Registration Desk.

Saturday, February 28, 2009

Grand Canyon via Sedona and Navajo Reservation

6:00AM – 7:00PM **\$160.00/pp onsite**

Begin with a fully-narrated tour of the Sonoran Desert on the way to your first stop of the day -- Sedona's colorful Red Rock country. You'll have time for a coffee break and a chance to get some photos of this inspiring area. Next, travel through scenic Oak Creek Canyon and the pine forests of Flagstaff before arriving at the South Rim of the Grand Canyon around lunch time. Here, you can drink in the boundless wonders of Grand Canyon from our favorite overlooks or take a short nature walk. We'll also tour the beautiful East Rim of the canyon and visit additional viewpoints along this 22-mile drive.

After we depart the Grand Canyon, we'll drive across the vast Navajo Indian Reservation, and make a stop at the Cameron Trading Post (with the Painted Desert as your backdrop) to shop for jewelry and crafts. We then start our return to the Valley of the Sun. A brief stop will be made for dinner before your return approximately 7PM. Meals on own.

Monday, March 2, 2009

Sedona Red Rock Adventure

7:00AM – 5:00PM **\$110.00/pp onsite**

Sedona's colorful Red Rocks have long been an inspiration to artists, filmmakers and visitors. Begin with a stop at Montezuma's Castle, one of the best-preserved prehistoric Indian cliff dwellings in North America.

Next, it's on to the beautiful Sedona area with a visit to the Chapel of the Holy Cross, set between two huge red sandstones. You'll then travel into the heart of Red Rock country in uptown Sedona to spend time browsing the many galleries and shops and have a bite to eat at one of many wonderful restaurants or cafes. Lunch on own.

Tuesday, March 3, 2009

Heard Museum with Lunch

9:00AM – 1:00PM **\$75.00/pp onsite**

An excellent introduction to the Valley of the Sun! This tour provides a docent-guided tour of the world-famous Heard Museum. The Heard Museum's exhibit galleries feature a variety of historic, traditional and contemporary Native art and provide an intimate, first-person perspective enhanced by detailed explanation from a talented Las Guias tour guide. Lunch included.



Wednesday, March 4, 2009

Scottsdale Shop and Play

9:30AM – 1:30PM **\$65.00/pp onsite**

Whether you are a serious shopper, love to browse the galleries, dine in a fine restaurant or unique al fresco cafe or just enjoy people watching, this is the trip for you! Spend the day at one of the area's hottest spots for shopping and dining, the Scottsdale Fashion Square. With over 225 upscale retailers, movie theatres and dining establishments, Fashion Square offers the best in shopping for bargain hunters to luxoholics. We'll include a special shopping bag filled with great discounts and special offers. Lunch on own.

Downtown Phoenix Visitor Information Center

Just across from the main entrance of the Hyatt Regency Phoenix, the Phoenix Convention & Visitors Bureau offers brochures, maps and personalized assistance to make your visit to Phoenix more enjoyable.

125 N. Second Street, Suite 120

Hours: M – F 8:00AM – 5:00PM

(877) Call-PHX

visitors@visitphoenix.com

WM2009 TECHNICAL PROGRAM SCHEDULE AT A GLANCE

SESSION #	ANNOTATED SESSION TITLES <i>(for full session title, please see individual listing)</i>	1: Crosscutting	2: HLW & TRU	3: L/ILW, NORM	4: Nuclear Power P	5: Package/Trans.	6: Deco & Decom	7: Environ. Rem.	8: Comm., E & T	9: Safety, S & S	TIME	ROOM
Monday AM – March 2, 2009												
1	WM2009 Plenary Session					ALL					8:00	3 rd FL
2	Panel: Hot Topics in US DOE Environmental Management	X									10:00	229 AB
3	Panel: WM Challenges - A Worldwide Perspective	X									10:00	224B
4	Panel: The International Decommissioning Network						X				10:00	224A
5	Emerging Treatment Technologies for ILW and LLW			X							10:00	222C
6	ER Technical Challenge: Actinide Contamination in Soils							X			10:00	222B
Monday PM – March 2, 2009												
7	US DOE Featured Site: Los Alamos National Laboratory	X									1:30	222C
8	Worldwide Radioactive WM – Challenges and Solutions	X									1:30	222B
9	<i>Panel: US DOE – OCRWM Yucca Mtn - Canceled</i>		X									
10	Critical Issues in Yucca Mountain Transportation					X					3:15	224B
11	Hot Topics of US Commercial LLW Management			X							1:30	229 AB
12	Selected Key Topics in US Commercial LLW Management			X							3:15	229 AB
13	<i>Panel: Radiological Risk Management - Canceled</i>											
14	Panel: Maintaining World Class Safety During Change								X		3:15	224A
15	Engaging Potentially Affected Citizens							X			1:30	223
16	Communicating WM Concepts to Stakeholders							X			3:15	223
17	D & D of Nuclear (Non-Power Generating) Facilities						X				1:30	222A
18	D & D of Nuclear Power Plants						X				3:15	222A
19	Lessons Learned in ER and WM Projects in the UK							X			1:30	221C
20	Progress in the Closure of Waste Storage Tanks/Facilities		X								1:30	221B
21	Front End of Uranium Fuel Cycle Materials Management			X							1:30	221A
22	Posters: HLW, SNF and Long-Lived Alpha/TRU Waste		X								1:30	2 nd FL
22E	Student Posters: Industry Leaders of Tomorrow	X									1:30	2 nd FL
Tuesday AM – March 3, 2009												
23	Panel: Emerging Issues with US DOE Prime Contractors	X									8:30	229A
24	US DOE Engineering and Tech.- Reducing Risk in HLW		X								8:30	224B
25	HLW and SNF – Process, Technologies and Operations		X								8:30	224A
26	Status Plans at the US DOE Waste Isolation Pilot Plant		X								8:30	223
27	Innovative Liquid and Gas Filtration Systems	X									8:30	222C
28	Programmatic, Reg. and Statutory Issues – L/ILW, NORM			X							8:30	222B
29	D & D Technologies and Tactics						X				8:30	222A
30	Waste Optimization/Minimization During D & D						X				10:15	222A
31	Technical Innovations in ER and Site Closure							X			8:30	221C
32	Technical Topics in Radioactive Materials Packaging					X					8:30	221B
33	RDD/IRD/WMD: Detection, Response, Decont. and Recov								X		8:30	221A
34	Panel: Students / Engrs – Are Companies Even Listening?							X			8:30	229B
35	Panel: Intl Youth Conference / Young Professionals							X			10:15	229B
36	Posters: L/ILW, NORM & TENORM; Nuclear Power Plants						X				8:30	2 nd FL
Tuesday PM – March 3, 2009												
37	Panel: US DOE – EFCOG Knowledge Portal Review	X									1:30	229B
38	Panel: Contracting Opportunities in the UK with the NDA	X									1:30	229A
39	Museum and Visitors Centers: Tools for Communication							X			3:15	229A
40	Panel: International SNF Recycling – Status Assessment		X								1:30	224B
41	Panel: NPP Waste Mgmt – LLW Disposal Issues				X						1:30	224A
42	Panel: NPP Waste Mgmt – LLW Processor Issues				X						3:15	224A

WM2009 TECHNICAL PROGRAM SCHEDULE AT A GLANCE

SESSION #	ANNOTATED SESSION TITLES <i>(for full session title, please see individual listing)</i>	1: Crosscutting	2: HLW & TRU	3: L/ILW, NORM	4: Nuclear Power P	5: Package/Trans.	6: Deco & Decom	7: Environ. Rem.	8: Comm., E & T	9: Safety, S & S	TIME	ROOM
Tuesday PM – March 3, 2009 Continued												
43	Technologies/Approaches Applied to Problematic TRU		X								1:30	223
44	Vitrification Experience and Glass Characterization		X								1:30	222C
45	Performance of Disposal Systems, Facilities, Sites - LLW			X							1:30	222B
46	Waste Characterization for LWL, ILW, MW			X							1:30	222A
47	The International Decommissioning Network of the IAEA						X				1:30	221C
48	Transportation of Spent Fuel and Radioactive Material					X					1:30	221B
49	ER Post Closure Challenges and Stewardship/LM							X			1:30	221A
50	Posters: ER, Security, Safety & Safeguards; Comm.							X	X	X	1:30	2 nd FL
Wednesday AM - March 4, 2009												
51	Panel: US DOE Procurement/Contracting Opportunities	X									8:30	229A
52	Panel: US DOE Contractors' Contracting Opportunities	X									10:15	229A
53	Panel: Disposition of DOE High-Activity Mixed Waste			X							8:30	224B
54	Panel: US NRC vs. US EPA Disposal Sites for VLLW			X							10:15	224B
55	Operating Experience and Progress for HLW and SNF		X								8:30	224A
56	TRU Small Quantity Sites – Plans for Utilizing INL		X								8:30	223
57	Yucca Mountain: Perspectives from Around the Mountain		X								10:15	223
58	Technical Innovations in HLW Treatment – W. Chemistry		X								8:30	222C
59	Strategic Options for Spent Fuel Management		X								10:15	222C
60	Operating Exp. in the Treatment and Storage of LLW			X							8:30	222B
61	Worldwide WM Regulatory/Oversight Crosscutting Update	X									8:30	222A
62	NPP Solid, Liquid and Wet Waste Management				X						8:30	229B
63	Panel: Progress in Radwaste Systems for New NPP				X						10:15	229B
64	D & D of US DOE Facilities						X				8:30	221C
65	ER Decisions - Modeling and Risk Evaluation							X			8:30	221B
66	US DOE, Site Specific and Citizens Advisory Board								X		8:30	221A
67	Posters: Crosscutting; Packaging & Transportation; D & D	X				X	X				8:30	2 nd FL
Wednesday PM - March 4, 2009												
68A	Closing Panel: The Intl Decommissioning Network						X				1:30	229A
68B	Panel: US DOE Oak Ridge Contracting Opportunities						X				1:30	224B
69	Innovations in HLW Treatment – Tech. Demonstration		X								1:30	224A
70	URLs and Demonstration Facilities: An Update		X								1:30	223
71	US FUSRAP and US Army Corp of Engineers Projects							X			1:30	222C
72	Innovative Field Monitoring for ER							X			1:30	222B
73	LLW Certification, Acceptance and Disposal			X							1:30	222A
74	Performance Assessment of Geological Disposal Systems	X									1:30	221C
75	Project Mgmt Improvements – Scope, Cost, Schedule	X									3:15	221C
76	Technical Comm.: Critical to Nuclear Renaissance								X		1:30	221B
77	Challenges of Secure and Economical RM Transport					X					1:30	221A
78	Posters: Emerging Issues and New Developments	X									1:30	2 nd FL
Thursday AM - March 5, 2009												
79	Federal Government Contract "Capture" Workshop	X									8:30	224A
80	Panel: Waste Management EFCOG Review			X							8:30	222C
81	Panel: D & D EFCOG Review						X				8:30	222B

WM2009 TECHNICAL PROGRAM

Subject to Change, please check signage and the Errata Sheet onsite for updates.

MONDAY, MARCH 2, 2009 – AM SESSIONS

Presenters are highlighted in **BOLD**

8:00 am -	Session 1	Room
10:00 pm		3rd Floor D&E

Panel: WM2009 Symposium Plenary

Co-Chairs: Fred Sheil, Sellafield Ltd. (UK); James Gallagher, Gallagher Consulting (USA)
Sponsor and Panel Reporter: Fred Sheil
Organizers: James Gallagher, Fred Sheil

The WM2009 Plenary Session will feature **Gregory B. Jaczko**, Commissioner – US NRC; **Inés R. Triay**, Principal Deputy Assistant Secretary for the US DOE – EM; and **Bill Gallo**, President, AREVA Federal Services LLC.

These plenary speakers will be addressing the pressing issues facing Radioactive Waste Management in 2009 and beyond.

10:00 am -	Session 2	Room
12:00 pm		229A&B

Panel: Hot Topics in US DOE Environmental Management

Co-Chairs: James Gallagher, Gallagher Consulting; Edward Helminski, Exchange Monitor Publications, Inc (USA)
Sponsor: Gary Benda
Organizers: James Fiore, Edward Helminski
Panel Reporter: Linda Ulland

This panel will feature senior US DOE managers speaking on the pressing issues facing US DOE sites. Senior managers will discuss what has transpired over the last year and provide detailed direction on the future US DOE Office of Environmental Management (EM) goals and objectives.

Panelists: John (Jack) Surash, Deputy Assistant Secretary (DAS) - Acquisition & Project Mgmt., US DOE; **Mark Gilbertson**, Director, Basic & Applied Research, US DOE; **Dae Chung**, DAS - Safety Mgmt. and Operations, US DOE; **Frank Marcinowski**, DAS - Regulatory Compliance, US DOE; **James Fiore**, Director, Office of Management Analysis, US DOE; **Merle Sykes**,

DAS, US DOE; and **Diane Cochran**, DAS Human Capital & Business Services, US DOE (USA)

10:00 am -	Session 3	Room
12:00 pm		224B

Panel: Waste Management Challenges and the Nuclear Renaissance - A Worldwide Perspective

Co-Chairs: John Mathieson, NDA (UK); Mark Matthews, Matthews, Inc (USA)
Sponsor, Organizer, and Panel Reporter: John Mathieson

This panel will focus on the potential nuclear renaissance in a number of countries. Associated with new nuclear construction is the requirement for front-end fuel supply and back-end waste management. There are once-through and recycling options to be considered, with key factors relating to sustainability, environmental health and safety. Following short introductions by the panelists, there will be open discussion; audience participation will be encouraged.

Panelists: **Larry Camper**, Director, Division of WM & EP, NRC (USA); **Marie-Claude Dupuis**, CEO, ANDRA (France); **Prof. Gordon Sibiya**, Consultant (South Africa) and **Adrian Simper**, Strategy Director, NDA; **Rosie Mathisen**, North of England LLC/Cumbria (UK)

10:00 am -	Session 4	Room
12:00 pm		224A

Panel: The International Decommissioning Network of the IAEA

Co-Chairs: Michele Laraia, IAEA (Austria); Andrew Szilagyi, US DOE (USA)
Sponsor and Panel Reporter: Michele Laraia
Organizers: Michele Laraia, Albert Freitag

This panel will introduce the International Decommissioning Network (IDN) and the related sessions throughout the week. The successful launch at the IAEA General Conference in September 2007 of the IDN marked a quantum leap in IAEA's traditional approach to international co-operation in nuclear decommissioning. The IDN was established to promote the vision of prompt, open, and efficient worldwide sharing of practical and effective decommissioning experience leading to safe, economic and timely dismantlement of disused nuclear facilities.

Panelists: **Vladimir Michal**, Senior Scientist, VUJE, Inc. (*Slovak Republic*); **Michele Laraia**, Senior Officer, IAEA (*Austria*); **Andrew Szilagyi**, D&D Program Leader, US DOE (*USA*); **Josef Podlaha**, Nuclear Research Institute Rez PLC (*Czech Republic*); **Lucien Pillette-Cousin**, AREVA (*France*); and **William Murphie**, US DOE (*USA*)

10:05 The History and Evolution of the IAEA Technical Assistance Programme on Decommissioning and the International Decommissioning Network as its Highest Point - 9000

Michele Laraia, IAEA (*Austria*)

10:30 Role of Slovakia within the IAEA Decommissioning Related Activities - 9031

Vladimir Michal, **Marian Stubna**, VUJE, Inc. (*The Slovak Republic*)

10:00 am – 12:00 pm	Session 5	Room 222C
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Emerging Treatment Technologies for Intermediate and Low-Level Radioactive Waste

Co-Chairs: Paul Macbeth, US DOE - Richland Operations Office; Colleen Owens, Los Alamos Technical Associates (USA)

Sponsor, Organizer, and Paper Reviewer: Paul Macbeth

10:05 Unique Remote-Handled Waste Management Issues at Oak Ridge National Laboratory - 9140

Bradley Patton, **Robert Jubin**, **Sharon Robinson**, ORNL; **S.D. Van Hoesen**, UT-Battelle, LLC (*USA*)

10:30 Solidification Tests for LLW Sludges at ORNL - 9161

Paul Taylor, ORNL; **Jody Bickford**, **Martin Foote**, MSE Technology Applications, Inc.; **Dale Jessop**, **Don Gagel**, EnergX LLC (*USA*)

10:55 Demonstration of Electrochemical Oxidation of Oils Using Boron-Doped Diamond Electrodes and its Potential Role in the Disposal of Radioactively Contaminated Waste Lubricants - 9035

Geoffrey Taylor, **Anthony Newey**, AWE; **Christopher Bates**, AWE PLC; **Colin King**, **Keith Dawes**, Windsor Scientific Ltd (*UK*)

11:20 Recycling Caustic from LAW Stream using NaSICON Membrane based Electrochemical Technology - 9127
Shekar Balagopal, **Marc Flinders**, **Sai Bhavaraju**, **Devin Clay**, **Karl Schatten**, **Ceramatec Inc.** (*USA*)

10:00 am – 12:00 pm	Session 6	Room 222B
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ER Technical Challenge: Actinide Contamination in Soils

Co-Chairs: John Lehr, NNSA, US DOE; Erich Evered, Consultant (USA)

Sponsor and Organizer: Erich Evered

Paper Reviewer: Del Baird

10:05 Radiological Closure of a Nuclear Weapon Accident Site with Plutonium Contamination - 9479

Joseph Weismann, **John Hackett**, **Daniel Caputo**, **Mark Tepperman**, **Cabrera Services, Inc.**; **Steven Rademacher**, **US Air Force Safety Center** (*USA*)

10:30 Development and Implementation of a Low-Cost Ex-Situ Soil Clean-Up Method for Actinide Removal at the Atomic Weapons Establishment Aldermaston Site, UK - 9376

Kieran Agnew, **University of Brighton - AWE**; **Andrew Cundy**, **School of Environmental and Technology**; **Ian Croudace**, **Phillip Warwick**, **University of Southampton**; **Phillip Purdie**, **AWE – Environmental Projects Group**; **Laurence Hopkins**, **University of Brighton** (*UK*)

10:55 Determining Corrective Action Boundaries at Atmospheric Nuclear Release Sites - 9230

Raymond Kidman, **Patrick Matthews**, **Stoller-Navarro**; **Harold Anagnostopoulos**, **Stoller-Navarro Joint Venture**; **John Jones**, **Robert Boehlecke**, **NNSA/NSO**; **Jeff MacDougall**, **Nevada Division of Environmental Protection** (*USA*)

March 2, 2009 Monday PM

1:30 pm –	Session 7	Room
5:00 pm		222C

US DOE Featured Site: Los Alamos National Laboratory - Accomplishments and Challenges in Environmental Cleanup and Waste Disposition

Co-Chairs: George Rael, US DOE NNSA LASO;
Erich Evered, Consultant (USA)
Sponsor and Paper Reviewer: Erich Evered
Organizer: Susan Stiger

1:35 Cleanup at LANL - The Challenges - 9493
Susan Stiger, Bechtel; George Rael, US DOE NNSA LASO; Kenneth Hargis, Michael J. Graham, LANL (USA)

2:00 Preparations for Retrieval of Buried Waste at Material Disposal Area B - 9494
Allan B. Chaloupka, C. William Criswell, Mitchell Goldberg, LANL; David R. Gregory, US DOE LASO; Edwin Worth, US DOE (USA)

2:25 Accelerating the Disposition of Transuranic Waste from Los Alamos National Laboratory - 9495
Mark Shepard, James Blankenhorn, Los Alamos National Laboratory; Susan Stiger, Bechtel; Dave Moody, US DOE - Carlsbad Field Office; George Rael, US DOE NNSA LASO (USA)

2:50 Evaluating Off-Site Disposal of Low-Level Waste at LANL - 9498
Kenneth Hargis, Sean French, LANL; Julien Boyance, North Wind Inc. (USA)

3:20 Waste Processing Cost Recovery at Los Alamos National Laboratory - Analysis and Recommendations - 9008
Steven Booth, LANL (USA)

3:45 Groundwater Contamination at LANL - Fact and Fiction - 9496
Danny Katzman, Paul R. Huber, LANL (USA)

4:10 Surface Water Contamination and Los Alamos National Laboratory's Holistic Approach to Mitigation - 9497
Danny Katzman, Steve J. Veenis, Steve L. Reneau, LANL (USA)

4:35 The RACER (Risk Analysis, Communication, Evaluation, and Reduction) Stakeholder Environmental Data Transparency Project for Los Alamos National Laboratory - 9499

Alison M. Dorries, Craig F. Eberhart, J. Christopher Echohawk, LANL; Nancy Werdel, US DOE (USA)

1:30 pm –	Session 8	Room
5:00 pm		222B

Worldwide Radioactive WM - Challenges and Solutions

Co-Chairs: Mark Matthews, Matthews, Inc (USA);
Gérald Ouzounian, ANDRA (France)
Sponsor: John Mathieson
Organizers: John Mathieson, William Gregory
Paper Reviewer: Mark Matthews

1:35 A Single Global Small-User Nuclear Repository - 9085
James Conca, New Mexico State University; Judith Wright, UFA Ventures, Inc (USA)

2:00 Update on the Radioactive Waste Position in the UK - 9455
John Dalton, Bruce McKirdy, NDA; Robert Jackson, DEFRA (UK)

2:25 Evolving an Integrated Waste Strategy for the UK Magnox Sites - 9038
Michelle Grist, Halcrow Group Limited (UK)

2:50 New Policy Developments and Challenges for Radioactive Waste Management in South Africa - 9549
Gordon Sibiyi, Eskom Consultant on Radwaste Management (Republic of South Africa)

3:20 Status of Equipment Development for a High-Level Waste Repository in Germany - 9552
Wilhelm Bollingerfehr, Wolfgang Filbert, Enriquet Biurrun, DBE Technology GmbH (Germany)

Session 9

Panel: US DOE - OCRWM Yucca Mountain Update: High Level Waste and Spent Nuclear Fuel Disposal

Due to US budget constraints, this panel will not be presented at WM2009 but deferred until next year.

3:15 pm – Session 10 Room
5:00 pm 224B

Critical Issues in Yucca Mountain Transportation

Co-Chairs: Richard Yoshimura, Sandia National Laboratory; Ricardo Martinez, Project Enhancement Corporation (USA)
 Sponsor: Robin Sweeney
 Organizer and Paper Reviewer: Alexander Thrower

3:20 Elements of the Office of Civilian Radioactive Waste Management's National Transportation Plan - 9338

Frank Moussa, US DOE; Jennifer Patric, Peter Bolton, Booz Allen Hamilton (USA)

3:45 Transportation of High-Level Radioactive Waste and Spent Nuclear Fuel: Proposed Rail Inspection Program to Promote Reciprocity - 9397

Tim Runyon, Illinois Emergency Management Agency; Patrick Edwards, Pennsylvania Public Utility Commission (USA)

4:10 Improving the Way State and Federal Co-Regulators Communicate about Risk - 9400

Earl Easton, US NRC; Lisa Janairo, The Council of State Governments, Midwestern Office (USA)

1:30 pm – Session 11 Room
3:15 pm 229A&B

Panel: Hot Topics of US Commercial LLW Management

Co-Chairs: Marcia Marr, Central Midwest Compact Commission; Kathryn Haynes, Southeast Compact Commission (USA)
 Sponsor: Leif G. Eriksson
 Organizers: Linda Beach, Marcia Marr
 Paper Reviewer: Linda Beach

This panel will focus on the emerging issues in low-level radioactive waste management in the US from the perspective of six active members of the Low-Level Radioactive Waste Forum, Inc.

State, LLW-compact, federal and industry views will be shared on topics such as licensing of new disposal capacity in Texas, plans for modifying existing disposal operations in Barnwell, South Carolina, efforts to minimize generation and provide for long-term storage of Class B and C waste lacking access to disposal, and disposal of NORM and TENORM at hazardous waste facilities.

Panelists: **Bill House**, EnergySolutions; **Larry McNamara**, Perma Fix Environmental Services; **Susan Jablonski**, State of Texas; **Lisa Edwards**, NEI/EPRI; **Dan Schultzhertz**, EPA; and **Larry Goldstein**, Northwest Compact

3:15 pm – Session 12 Room
5:00 pm 229A&B

Selected Key Topics in US Commercial LLW Management

Co-Chairs: Kathryn Haynes, Southeast Compact Commission; Linda Beach, Waste Control Specialists LLC (USA)
 Sponsor: Kathryn Haynes
 Organizers: Linda Beach, Colleen Owens
 Paper Reviewer: Linda Beach

3:20 Presentation of the Richard S. Hodes, M.D. Honor Lecture Award for 2009 by Michael Mobley, Southeast Compact Commission for LLW (USA) to Susan Jablonski, Director, Radioactive Materials Division, Texas Commission on Environmental Quality (USA)

3:35 Presentation of the 2009 Richard S. Hodes, M.D. Honor Lecture: Challenges and Lessons Learned in Low-Level Radioactive Waste Management and Disposal in the Texas Compact – 9280
Susan Jablonski, Texas Commission on Environmental Quality (USA)

4:10 Strategic Assessment of NRC's Low-Level Radioactive Waste Program - An Update - 9205
James Kennedy, US NRC (USA)

4:35 WCS Receives a License for Two New LLW-Disposal Facilities in Texas - WCS' Path to National LLW Management Solutions - 9306
Rodney Baltzer, William Dornsife, Waste Control Specialists LLC (USA)

Session 13**Panel: Radiological Risk Management**

Due to US budget constraints, this panel will not be presented at WM2009 but deferred until next year.

**3:15 pm – Session 14 Room
5:00 pm 224A**

Panel: Maintaining World Class Safety During Times of Change

Co-Chairs: Anthony Umek, Fluor Government Group; Pete Knollmeyer, Fluor Hanford (USA)
Sponsor, Organizer and Panel Reporter: Judith Connell

This panel will focus on sharing lessons learned in improving worker safety. Topics will include implementing the new requirements stipulated in 10CFR851, the US DOE's Worker Safety and Health Program; sharing US DOE and contractor experience with the mentoring that is conducted as part of US DOE's Voluntary Protection Program; and an in-depth exchange of ideas on electrical security index developed by EFCOG. The new contract awards across the US DOE Complex have required seamless - and often short - handoffs between contractors. While discrete deliverables with accompanying schedules are relatively easy to identify and transition, safety can be elusive, yet an essential aspect that could easily be sacrificed without the proper attention. Change causes stress and uncertainty, which are often displayed as inattention to detail and can result in on-the-job injuries. Contractors who have been on both the giving and receiving ends of these transitions will share their experiences in keeping workers focused on safety as they weather the changes associated with contract transitions.

Panelists: **Kathy McCarty**, Director, US DOE; **Dave Brockman**, Manager, US DOE-RL; **Jeff Allison**, US DOE Savannah River; **John Lehew**, President, CH2M HILL Plateau Remediation Company; **Leo Sain**, URS Washington Division; **Anthony Umek**, Vice President, ESH&Q, Fluor Government Group; and **Pete Knollmeyer**, Fluor Hanford (USA)

**1:30 pm – Session 15 Room
3:15 pm 223**

Engaging Potentially Affected Citizens

Co-Chairs: Margaret MacDonell, Argonne National Laboratory; Dale Bignell, Washington Closure Hanford (USA)

Sponsor: Margaret MacDonell

Organizers: Margaret MacDonell, Tjalle Vandergraaf

Paper Reviewer: Margaret MacDonell

1:35 Using Health-Based Fact Sheets as a Communication Tool and Resource for Contaminated Facilities - 9352
R. Douglas Hildebrand, US DOE; Margaret MacDonell, John Peterson, ANL (USA); Lynne Haroun, Environ (USA)

2:00 That Every Country in the World had a Town Like Carlsbad New Mexico - A Review of the Place that Accepts Nuclear Waste - 9084
Chad A. Twitchell, Greg Roselle, SNL (USA)

2:25 US EPA Superfund Program's Policy for Community Involvement at Radioactively Contaminated Sites - 9244
Stuart Walker, Karen Martin, US EPA (USA)

2:50 The Changing Role of Native Americans and Stakeholders in Decisions Concerning Nuclear Facilities - 9412
Joanna Burger, Rutgers University- Division of Life Sciences; Michael Gochfeld, Consortium for Risk Evaluation with Stakeholder Participation; Charles Powers, David Kosson, CRESPI / Vanderbilt University (USA)

**3:15 pm – Session 16 Room
5:00 pm 223**

Communicating Waste Management Concepts to Stakeholders

Co-Chairs: Tjalle Vandergraaf, Providence College (Canada); Leonel Lagos, Florida International University/Applied Research Center (USA)

Sponsor: Tjalle Vandergraaf

Organizers: Tjalle Vandergraaf, Leonel Lagos

Paper Reviewer: Dale Bignell

3:20 Key Components of Waste Control Specialists LLC Public Outreach Program - 9028

William Lindquist, Waste Control Specialists LLC (USA)

3:45 Development of the Coles Hill Uranium Deposit with Sustainability as a Cornerstone - 9441

Patrick Wales, Virginia Uranium, Inc.; Caitlin Rood, Tetra Tech, Inc. (USA)

4:10 The General Case Integrated Waste Algorithm, a Universal Model for Decommissioning - 9195

Bernard Kelly, Andrew J. Lowe, University of Manchester; Paul Mort, Sellafield LTD (UK)

4:35 The GeoPolitics of Energy: Engaging the Public and Policymakers – 9557

James Conca, New Mexico State University; Judith Wright, UFA Ventures, Inc (USA)

1:30 pm – Session 17 Room 222A
3:15 pm

D & D of Nuclear (Non-Power Generating) Facilities

Co-Chairs: Fred Sheil, Sellafield Ltd. (UK); J. Rick Dearholt, CDM (USA)

Sponsor and Organizer: Fred Sheil
Paper Reviewer: J. Rick Dearholt

1:35 Setting up a Decommissioning Scenario, Methodology and Tools Developed - 9194

Olivier Voungny, Frederic Pradoura, SGN AREVA (France)

2:00 EBR-II Primary Tank Wash-Water Alternatives Evaluation - 9431

Rick Demmer, John Heintzleman, Leah Squires, Richard Meservey, INL (USA)

2:25 Decommissioning of the Former German Reprocessing Site WAK - Status of Vitrification Plant and Dismantling of the HLLW Storage Tanks - 9023

Joachim Fleisch, Martin Weishaupt, WAK GmbH; Guenther Roth, FZK GmbH; Wolfgang Pfeifer, Wolfgang Gruenewald, Forschungszentrum Karlsruhe (Germany)

2:50 The End of the Line, Preparing the Main Plant Process Building for Final Demolition at the West Valley Demonstration Project - 9256

Geoffrey Gorsuch, Daniel Sullivan, US DOE (USA); David Kurasch, Mark Hackett, Laurene Rowell, West Valley Nuclear Services Co. (USA)

3:15 pm – Session 18 Room 222A
5:00 pm

D & D of Nuclear Power Plants

Co-Chairs: Mark Lesinski, Magnox South Ltd (UK); Jas Devgun, Sargent & Lundy, LLC (USA)

Sponsor: Jas Devgun

Organizers: Albert Freitag, Bernard Poncet

Paper Reviewer: Bernard Poncet

3:20 End of Lifecycle Issues for Reactors Yet to be Built - 9041

Jas Devgun, Sargent & Lundy, LLC (USA)

3:45 Barsebäck NPP in Sweden- Transition to Decommissioning Socio-Economic Aspects of Decommissioning - What Did We Achieve During the Transition, 1997-2008 - 9092

Håkan Lorentz, Barsebäck Kraft AB (Sweden)

4:10 International Cooperation for the Dismantling of Chooz A Reactor Pressure Vessel - 9087

Jean-Jacques Grenouillet, EDF (France); Edward Posivak, WMG, Inc. (USA)

4:35 Strategic Options for the Management of Waste Irradiated Graphite - 9456

Anthony Banford, Prof Harry Eccles, David N. Ross NNL (UK)

1:30 pm – Session 19 Room 221C
5:00 pm

Lessons Learned in Environmental Remediation and Waste Management Projects in the UK

Co-Chairs: Cathy Hickey, URS Washington Division (USA); Gerry McGill, AMEC Nuclear M&O (UK)

Sponsor: Frank Winter

Organizers: Angie Jones, Mike Pearl

Paper Reviewer: Cathy Hickey

1:35 Remediation of Irradiated Fuel Fragments Buried Offshore at Dounreay, Scotland, UK - 9204

Joseph Toole, WorleyParsons; Jim Cassidy, Fathoms LTD (UK)

2:00 Management of Ground and Groundwater Contamination on a Compact Site Constrained by Ongoing Activities. - 9073

Katherine Eilbeck, Phil Reeve, Sellafield Ltd (UK)

2:25 Practical Experience with Remediation of a Former Active Handling Building Site in the UK - 9058

Jack Armitage, Rowland Cornell, Nuvia Limited; Andy Staples, UKAEA (UK)

2:50 Experience with Stabilization of SGHWR Sludge in a Commercial Plant in the UK - 9044

Madoc Hagan, Rowland Cornell, Brian Riley, Nuvia Limited; Bryan Ware, UKAEA (UK)

3:20 Challenge of Replacing Obsolete Equipment and Systems on Brownfield Sites - 9077

Stephen Teasdale, Aker Solutions (UK)

3:45 Assessment of the Impact of Radioactive Disposals and Discharges from the UK Low Level Waste Repository on the Ecosystem - 9051

Candida Lean, Nicholas Barber, Simon Kwong, NNL (UK)

4:10 Remediation of Kiritimati Island and the Challenges of Hazardous Waste Disposal to the UK from the Central Pacific - 9526

Robert Kerr, Safety & Ecology Corporation Ltd (UK)

1:30 pm – Session 20 Room 5:00 pm 221B

Progress Worldwide in the Closure of Waste Storage Tanks and Facilities

Co-Chairs: Keith Quigley, Washington River Protection Solutions ; Sherri Ross, US DOE (USA)

Sponsor: Jeffery Lyon

Organizers: Jeffery Lyon, Harry Babad

Paper Reviewer: Harry Babad

1:35 Changing the Safety Culture in Hanford Tank Farms - 9211

Mike Berriochoa, CH2M HILL; Louis Alcala, Washington River Protection Solutions (USA)

2:00 Assessing Confidence in Performance Assessments Using an Evidence Support Logic Methodology: An Application of TESLA - 9484

Michael Egan, Alan Paulley, Quintessa, Ltd. (UK); Linda Lehman, John Lowe, CH2M HILL Plateau Remediation Company; Elizabeth Rochette, Washington State Department of Ecology; Steve Baker, INTERA Incorporated (USA);

2:25 Structural Integrity of Single Shell Tanks at Hanford - 9491

Michael Rinker, Siva Pilli, Naveen Karri, John Deibler, Kenneth Johnson, James Holbery, David Hurley, Dennis Mullen, PNNL (USA)

2:50 Characterization of Solids in Residual Wastes from Single Shell Tanks at the Hanford Site, Washington, USA - 9277

Kenneth Krupka, Kirk Cantrell, Todd Schaefer, Bruce Arey, William Deutsch, Michael Lindberg, PNNL; Steve Heald, ANL (USA)

3:20 Contaminant Release from Residual Waste in Single Shell Tanks at the Hanford Site, Washington, USA - 9276

Kirk Cantrell, William Deutsch, Kenneth Krupka, Michael Lindberg, PNNL (USA)

3:45 Removing Sludge Heels from Savannah River Site Waste Tanks by Oxalic Acid Dissolution - 9120

Michael Poirier, David Herman, Fernando Fondeur, Michael Hay, John Pareizs, Kim Crapse, Bruce Wiersma, Thomas Peters, SRNL; George Thaxton, WSRC; Samuel Fink, Savannah River Nuclear Solutions (USA)

4:10 Enhanced Chemical Cleaning: A New Process for Chemically Cleaning Savannah River Waste Tanks - 9100

Ray Beatty, AREVA; Paul Wojtaszek, AREVA Federal Services, LLC; John Remark, Dennis Jones, AREVA NP Inc.; Neil Davis, Renee Spires, Edward Ketusky, WSRC (USA)

44:35 Tank Closure Progress at the Department of Energy's Idaho National Engineering Laboratory Tank Farm Facility – 9554

Steve Butterworth, CH2M-WG Idaho, LLC, Mark R. Shaw, US DOE

1:30 pm – Session 21 Room 5:00 pm 221A

Front End of the Uranium Fuel Cycle, NORM and Byproducts Materials Management

Co-Chairs: Michelle Rehmann, Tetra Tech, Inc.; Steven Brown, SHB, Inc. (USA)

Sponsor: Steven Brown

Organizers: Michelle Rehmann, Larry Camper

Paper Reviewer: Steven Brown

- 1:35 The Uranium Industry and the Protest Movements - 9539**
Gerd Wiatzka, Leo Lowe, Douglas Chambers, Grant Feasby, SENES Consultants (Canada)
- 2:00 Emerging Trends in the Nuclear Fuel Cycle: Implications for Waste Management - 9247**
Leah Spradley, Larry Camper, US NRC; Michelle Rehmman, Tetra Tech, Inc. (USA)
- 2:25 What's New - Guidelines, Networks and Approaches for Modern Uranium Recovery - 9432**
Michelle Rehmman, Tetra Tech, Inc. (USA)
- 2:50 The Uranium Recovery Industry and the Current Nuclear Renaissance - A Health Physicists Perspective - 9040**
Steven Brown, SHB, Inc. (USA)
- 3:20 Some Thoughts after the Inaugural Meeting of the International Forum on Sustainable Options for Uranium Production - 9022**
Mervyn Tano, International Institute for Indigenous Resources Mgmt (USA)
- 3:45 Phosphate Rocks: Sustainable Secondary Source for Uranium and their Agricultural Impact - 9481**
David LeMone, Philip Goodell, Arthur H. Harris, University of Texas at El Paso; John Winston, Radiological Physics, Inc (USA)
- 4:10 Milestones Preceding the May 2008 Licensing of Byproduct Material Disposal in Texas - 9307**
William Dornsife, Jeffrey Skov, Waste Control Specialists, LLC (USA)
- 4:35 Verification of Gamma Radiation Survey of Uranium Mine Remediation - 9537**
Ron Stager, SENES Consultants Ltd. (Canada)

1:30 pm -	Poster Session 22	Room
5:30 pm		2nd Floor

Posters: HLW, SNF & Long Lived Alpha - A-D Student Posters - E

Topic A: Process Developments in HLW, SNF and Long-Lived Alpha/TRU Waste

Co-Chairs: Paul Murray, AREVA; Leif Eriksson, Consultant (USA)

Sponsor and Organizer: Leif Eriksson

Paper Reviewer: Paul Murray

- A.1 Optimization of the Retrieval of Waste from Hanford Tank S-109 through Numerical Modeling - 9459**
Romani Patel, David Roelant, Florida International University / Applied Research Center; Avani Mulchandani, Georgio Tachiev, Florida International University (USA)
- A.2 Adsorption and Elution Behavior of Cesium and Rubidium on Ammonium Tungstophosphate (AWP)-CaALG Alginate Microcapsules - 9180**
Yan Wu, Chuanpin Lee, Hitoshi Mimura, Yuichi Niibori, Tohoku University; Isao Yamagishi, Shinichi Koyama, Masaki Ozawa, JAEA (Japan)
- A.3 Steam Reforming Technology Demonstration for the Destruction of Organics on Actual US DOE Savannah River Site Tank 48H Waste - 9138**
Paul Burket, Gene Daniel, Carol Jantzen, Charles Nash, Charles Crawford, Allan Barnes, Michael Williams, SRNL (USA)
- A.4 Status of Chemical Cleaning of Waste Tanks at the Savannah River Site-F Tank Farm Closure Project - 9114**
George Thaxton, G.B. Clendenen, Willie Gordon, WSRC; Michael Poirier, SRNL; Samuel Fink, Savannah River Nuclear Solutions (USA)
- A.5 Technology Needs and Status on Closure of US DOE Radioactive Waste Tank Ancillary Systems - 9312**
Heather Burns, Sharon Marra, Christine Langton, WSRC (USA)

Topic B: Technology Developments in HLW, SNF and Long-Lived Alpha/TRU Waste

Co-Chairs: Paul Murray, AREVA; Leif Eriksson, Consultant (USA)

Sponsor, Organizer and Paper Reviewer: Paul Murray

B.1 Channeling for Monitoring the Radiation Damage in High-Level Nuclear Waste Containers: A New Method - 9007
Mukhtar Ahmed Rana, PINSTECH (Pakistan)

B.2 Testing of a Rotary Microfilter for Hanford Applications - 9121
Michael Poirier, David Herman, David Stefanko, SRNL; Samuel Fink, Savannah River Nuclear Solutions (USA)

B.3 Demonstrated Operation of Chlorine Contained Waste Incineration System for Transuranic Contaminated Wastes - 9181

Yuichi Shibata, Masanori Tamura, Izumi Imura, Kazuya Usui, JAEA (Japan)

B.4 Technical Performance Capability of Fourier Transform Profilometry for Quantitative Waste Volume Determination under Hanford Tank Conditions - 9333

David Monts, Ping-Rey Jang, Zhiling Long, O. Perry Norton, Walter P. Okhuysen, Yi Su, Mississippi State University; Charles Waggoner, Institute for Clean Energy Technology (USA)

B.5 Development of Remote Hanford Connector Gasket Replacement Tooling for the Savannah River Site's Defense Waste Processing Facility - 9457

Daniel Kremetz, Jeffrey T. Coughlin, Michael J. Dalmaso, Robert B. Milling, SRNL; James Gee, Brian Metzger, WSRC (USA)

B.6 Evaluation of Innovative High Level Waste Pipeline Unplugging Technologies - 9477

Seckin Gokaltun, Dwayne McDaniel, Amer Awwad, Florida International University (USA); Jose Varona, Romani Patel, David Roelant, Florida International University / Applied Research Center (USA)

B.7 Two-zone Sub-critical Reactor Driven by a High-intensity Neutron Generator as a Research Facility for the Nuclear Waste Transmutation - 9519

Volodymyr Gulik, Kyiv Institute for Nuclear Research; Volodymyr Pavlovych, Institute for Nuclear Research of the National Academy of Science of Ukraine; Volodymyr Babenko, Kyiv Bogolyubov Institute for Theoretical Physics (Ukraine)

Topic C: Matrices, Glass Formulating in HLW, SNF and Long-Lived Alpha/TRU Waste

Co-Chairs: Dirk Gombert, INL (USA); Keith Miller, NNL (UK)

Sponsor, Organizer and Paper Reviewer: Keith Miller

C.1 Formation of Ruthenium Dioxide during Vitrification of HLW, and It's Effect on Leachability of the Glass - 9032

Youichi Enokida, Kayo Sawada, Nagoya University (Japan)

C.2 3-D Thermal, Hydrodynamic and Magnetic Modeling of Elaboration of Glass by

Induction in Cold Crucible - 9033

Eric Chauvin, AREVA NC; Emilien Sauvage, Patrice Brun, CEA (France)

C.3 Radiation-Induced Fluidity and Glass-Liquid Transition in Irradiated Amorphous Materials - 9082

Michael Ojovan, University of Sheffield (UK)

C.4 Corrosion Resistance of Murataite-Based Ceramics Containing Simulated Actinide/Rare Earth Fraction of High Level Waste - 9299

Sergey Stefanovsky, Galina Varlakova, Olga Burlaka, Olga I. Stefanovsky, SIA Radon; Boris Nikonov, Sergey Yudintsev, Institute of Geology of Ore Deposits (Russia)

C.5 Mechanisms of Phase Formation in the Vitrification of High-Ferrous Savannah River Site SB2 HLW Sludge Surrogate - 9300

Olga I. Stefanovsky, Sergey Stefanovsky, SIA Radon; Andey Akatov, Institute of Technology (Russia); James Marra, SRNL (USA)

C.6 Matrices for 129I Immobilization - 9303

Yury Pokhitonov, Khlopin Radium Institute (Russia)

C.7 Sinterization of Niobium and Iron Phosphate Glasses for Uranium Silicide Immobilization - 9345

Jose Martinelli, Nuclear Energy Research Institute; Diego Russo, CNEA (Argentina); L. Ghussn, UFSCar (Brazil)

Topic D: Migration & Waste Management in HLW, SNF and Long-Lived Alpha/TRU Waste

Co-Chairs: Dirk Gombert, INL (USA); Keith Miller, NNL (UK)

Sponsor and Organizer: Keith Miller

Paper Reviewer: Gérald Ouzounian

D.1 A Review of Tc Geochemistry: The Behavior of an Artificial Element in the Natural Environment - 9384

Jonathan Icenhower, Nikolla Qafoku, John Zachara, Dawn Wellman, Wayne Martin, PNNL (USA)

D.2 Micro-Flow Channel Probe for Geological Environmental Diagnosis - New Integrated Device for In-situ Measurement of Diffusivity and Sorption Coefficient in Rock Matrix - 9294

Kenji Noshita, Hitachi, Ltd., Energy and

Environmental Systems Laboratory; Takuma Yoshida, Hitachi-GE Nuclear Energy, Ltd.; Toshiaki Ohe, Tokai University; Shinya Nagasaki, The University of Tokyo; Katsuto Futakuchi, Dia Consultants Ltd.; Kenji Amano, JAEA (Japan)

D.3 Design of an Interim Storage Facility for the CEA Long-Lived Medium, High-Level and Irradiating Waste - 9209

Jean-Michel Bart, Carole Doutreluingne, Jean Pierre Robin, CEA (France)

D.4 Nuclear Materials Characterization in the Materials and Fuels Complex Analytical Hot Cells - 9275

Rick Demmer, Simeon Thompson, Idaho National Laboratory (USA)

D.5 Life Estimation of High Level Waste Tank Steel Savannah River Site Closure Performance Assessment - 9310

Karthik Subramanian, Bruce Wiersma, Stephen Harris, SRNL (USA)

Topic E: Student Poster Session, The Next Generation - Industry Leaders of Tomorrow

Co-Chairs: David LeMone, University of Texas at El Paso; Leah Spradley, US NRC (USA)

Sponsor and Organizer: Michelle Rehmann

E.1 Removal of Radionuclides and Fission Products from Spent Nuclear Fuel using Sulfate Reducing Bacteria: Feasibility Study - 9273

Nonhlanhla Ngwenya, Evans Chirwa, University of Pretoria (Republic of South Africa)

E.2 Testing of Puncture-Resistant Material for Protection of Beta Scintillation Detectors - 9176

Ramon A. Colon Mendoza, (DOE Fellow) Florida International University/Applied Research Center (USA)

E.3 Using New Porous Nano Composites for Photocatalytic Water Decontamination - 9281

Maryam Zarei, University of Texas at El Paso (USA)

E.4 Mercury Removal from East Fork Poplar Creek Using Chemical Reduction and Volatilization - 9520

Jose Vasquez, (DOE Fellow), Florida Int. University/Applied Research Center (USA)

E.5 Waste Treatment Plant (WTP),

Automated Operation Control via PLC for PEP. - 9530

Serkan Akar, (DOE Fellow), Florida Int. University/Applied Research Center (USA)

E.6 The Effect of Ultrasound in Dislodging Radioactive Waste from DOE Pipelines - 9534

Denisse Aranda, (DOE Fellow), Florida Int. University/Applied Research Center (USA)

E.7 Selective Separation of Cs by Ammonium Molybdophosphate-Loaded Silica Gels - 9538

Yusuke Endo, Yan Wu, Hitoshi Mimura, Yuichi Niibori, Tohoku University; Isao Yamagishi, Shinichi Koyama, Masaki Ozawa, JAEA (Japan)

E.8 Investigation of Effects of pH and Temperature on the Carbonate Promoted Dissolution of Meta-Autunite - 9543

Ravi Gudavalli, Florida International University/Applied Research Center (USA)

E.9 Coal-Bed Methane Produced Water Treatment - 9545

Amy Pahmer, (DOE Fellow), Florida Int. University/Applied Research Center (USA)

E.10 Treatment of Electric Arc Furnace Dust (EAFD) by Cement

Solidification/Stabilisation (S/S) Using Sustainable Alternative Binders - 9546
Beste Cubukcuoglu, University of Surrey (UK)

E.11 SHS Production of Nitride Nuclear Fuels Using Surrogate Materials - 9547

Collin Donohoue, Colorado School of Mines (USA)

E.12 Caustic Dissolution of Chromium in Underground Storage Tanks at Hanford Site - 9548

Alexander Henao, (DOE Fellow), Florida Int. University/Applied Research Center (USA)

E.13 Terrestrial Radioactivity and Dose Calculation to the Public: The Case of the United States - 9551

Merlin Ngachin, (DOE Fellow), Florida Int. University/Applied Research Center (USA)

E.14 Thermodynamic Equilibrium Modeling of Mercury Speciation in the Environment - 9555

Amaury Betancourt, (DOE Fellow) Florida Int. University/Applied Research Center (USA)

MARCH 3, 2009**TUESDAY AM**

8:30 am – 12:00 pm	Session 23	Room 229A
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Panel: Emerging Issues with US DOE Prime Contractors

Co-Chairs: Judith Connell, Fluor Hanford, Inc.; George Jackson, Fluor Government Group (USA)
Sponsor and Panel Reporter: Judith Connell
Organizers: Judith Connell, George Jackson

This panel will feature senior executives from the major US DOE sites addressing issues in the US DOE waste and environmental cleanup program. Existing or emerging issues or challenges within the prime contractor community as well as "self funding" the transformation of a project/site will be discussed. The US DOE's Performance Evaluations Plans and their affect on contractors being able to earn stretch fee will be discussed, as will the impact of different contracting models on the successful integration of work scope across multiple contractors.

Panelists: **John Lehew**, President, CH2M HILL Plateau Remediation Company; **Chuck Spencer**, President, Washington Closure Hanford; **Greg Meyer**, President, B&W PANTEX; **Jeffrey Mousseau**, Bechtel BWXT Idaho, LLC; **Paul H. Divjak**, Bechtel Jacobs; and **Charles Munns**, Savannah River Nuclear Solutions (USA)

8:30 am – 12:00 pm	Session 24	Room 224B
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The Role of the US DOE Office of Engineering and Technology in Reducing Risk in HLW Management

Co-Chairs: Steve Krahn, US DOE; Kurt Gerdes, US DOE (USA)
Sponsor: Tom Brouns
Organizers: Kurt Gerdes, Steve Krahn
Paper Reviewer: Harry Babad

8:35 Reducing Technical Risk in the Environmental Management Program - 9463
Kurt Gerdes, Steve Krahn, Mark Gilbertson, US DOE (USA)

- 9:00 Scientific Opportunities to Reduce Risk in Nuclear Process Science - 9279**
Paul Breddt, A. Felmy, Phillip Gauglitz, Adam Poloski, John Vienna, PNNL; Steve Krahn, Nicholas Machara, US DOE; Michael McIlwain, INL; Bruce Moyer, ORNL; Karthik Subramanian, William Wilmarth, David Hobbs, SRNL (USA)
- 9:25 The Role of the Office of Waste Processing in Reducing Technical Risk - 9464**
Steve Krahn, Kurt Gerdes, US DOE (USA)
- 9:50 The US DOE Office of Environmental Management International Cooperative Program: Current Status and Plans for Expansion - 9203**
Kurt Gerdes, Ana Han, US DOE; James Marra, Kevin Fox, Gerald Jannik, Eduardo Farfan, Micahel Smith, David Peeler SRNL; Jay Roach, INL; Dong-Sang Kim, Batelle-Pacific Northwest Division (USA); Albert Aloy, Khlopin Radium Institute; Sergey Stefanovsky, SIA Radon (Russia); Mikhail Bondarkov, International Radioecology Laboratory (Ukraine); Cheon-Woo Kim, NETEC (Korea)
- 10:20 Risk Reduction through Use of External Technical Reviews, Technology Readiness Assessments and Technical Risk Ratings - 9174**
Steven Schneider, Kurt Gerdes, US DOE; Michael Cercy, Savannah River Nuclear Solutions (USA)
- 10:45 Advanced Remediation Technologies - 9442**
Gary Peterson, Steve Krahn, US DOE (USA)
- 11:10 Office of Environmental Management (EM) Federal Technical/Safety Authority - 9467**
Dae Chung, Chip Lagdon, Joseph Arcano, US DOE; Zack Smith, Michael Mikolanis, US DOE Savannah River Operations Office (USA)
- 11:35 Office of Deactivation and Decommissioning and Facility Engineering Multi-Year Program Plan - 9471**
Yvette Collazo, US DOE - Savannah River Operations; Andrew Szilagyi, US DOE; Paula Kirk, ORNL (USA)

8:30 am – Session 25 Room
12:00 pm 224A

HLW and SNF - Processes, Technologies and Operations

Co-Chairs: Remi Bera, AREVA; Harry Harmon, Senior Consultant (USA)

Sponsor: Tom Brouns

Organizers: Sal Golub, Remi Bera

Paper Reviewer: Remi Bera

- 8:35 CETE R&D at Oak Ridge National Laboratory Supporting Management of Nuclear Waste - 9227**
Robert Jubin, Emory Collins, Kevin Felker, Barry Spencer, Jeffery Binder, ORNL (USA)
- 9:00 Treatment and Disposal of Process Wastes Arising from the Recycle of Spent Nuclear Fuel in the USA - 9094**
Stuart Arm, EnergySolutions (USA); Ed Butcher, NNL (UK)
- 9:25 INRA Integrated Fuel Recycling Facility Solid Waste Management - 9468**
Gerald H. Senentz, AREVA; Francois Drain, SGN; Catherine Veyer, Consultant (France); Paul Murray, Remi Bera, AREVA; Fredric Bailly, AREVA NC Inc.; James Angelos, URS Corporation (USA); Toshiyuki Zama, JNFL (Japan);
- 9:50 AFCI Coupled End-to-End Research, Development and Demonstration Project: Integrated Off-Gas Treatment System Design and Initial Performance - 9226**
Dan Ramey, Barry Spencer, Bradley Patton, Robert Jubin, ORNL (USA)
- 10:20 Development of a Crossflow Filter to Remove Solids from Radioactive Liquid Waste: Comparison of Test Data with Operating Experience - 9119**
Michael Poirier, David Herman, SRNL; Julius Lacerna, Samuel Fink, Savannah River Nuclear Solutions (USA)
- 10:45 Highly Selective Removal of Cesium and Strontium Utilizing a New Class of Inorganic Ion Specific Media - 9267**
Mark Denton, Kurion, Inc.; Mercuri Kanatzidis, Manolis Manos, Northwestern University (USA)
- 11:10 Technical Approach for the Development of a Near Tank Cesium Removal Process - 9143**
Terry Sams, Parsons Infrastructure and Technology; Dean Kurath, David Blanchard,

Battelle Pacific Northwest Division; Chester Miller, US DOE (USA)

- 11:35 Qualification of a Vitrified High Level Waste Product to Support Used Nuclear Fuel Recycling in the US - 9474**
Fredric Bailly, AREVA NC Inc.; Denis Strachan, PNNL; Paul Murray, AREVA (USA); Gerald H. Senentz, AREVA; Catherine Veyer, Consultant (France)

8:30 am – Session 26 Room
12:00 pm 223

Status and Plans at the US DOE Waste Isolation Pilot Plant (WIPP)

Co-Chairs: Roger Nelson, US DOE – Carlsbad Field Office; Chuan-Fu Wu, US DOE (USA)

Sponsor: Chuan-Fu Wu

Organizer and Paper Reviewer: Roger Nelson

- 8:35 Summarizing Ten Years Operating the Waste Isolation Pilot Plant - 9501 - 9501**
Dave Moody, Roger Nelson US DOE - Carlsbad Field Office (USA)
- 9:00 WIPP's Hazardous Waste Facility Permit Renewal Application - 9101**
William Most, Washington Regulatory and Environmental Services; Robert Kehrman, URS Corporation (USA)
- 9:25 WIPP Hazardous Waste Facility Permit 2009 Update - 9167**
Miriam Whatley, M. Whatley Environmental LLC; Dave Streng, Robert Kehrman, URS Corporation (USA)
- 9:50 New Payload Initiatives for Shipments to WIPP Will Expand US DOE's Ability to Dispose of Transuranic Waste - 9063**
Roger Nelson, US DOE; Sean White, URS Corporation (USA)
- 10:20 Evolution of a Waste Information System - 9541**
David Speed, Washington TRU Solutions (USA)
- 10:45 Lessons Learned When Integrating Remote Handled and Contact Handled Transuranic Waste into a Comprehensive Documented Safety Analysis and Technical Safety Requirement - 9423**
Jon Ousley, Navarro Research and Engineering, Inc.; Donna Busche, Washington TRU Solutions; Gary Scott, US DOE - Carlsbad Field Office (USA)

11:10 Savannah River Site TRU Solutions - 9513
Lee Fox, Savannah River Nuclear Solutions (USA)

8:30 am – Session 27 Room
12:00 pm 222C

Innovative Liquid and Gas Filtration Systems in the Nuclear Industry

Co-Chairs: Charles Waggoner, Institute for Clean Energy Technology (USA); Chris Chadwick, MicroFiltrex (UK)

Sponsor: David Eaton

Organizers: Chris Chadwick, Duane Adamson

Paper Reviewer: Charles Waggoner

8:35 Development of AG-1 Section FI Metal Media Filters - 9061

Duane Adamson, SRNL; Charles Waggoner, Institute for Clean Energy Technology (USA)

9:00 Porous Metal Filters for Gas and Liquid Applications in the Nuclear Industry – 9556

Kenneth Rubow, Mott Corporation (USA)

9:25 Examining Design Factors for Safe and Effective Hydrogen Vents for Waste Packages - 9248

Bob Herrmann, MicroFiltrex (USA)

9:50 Self Cleaning HEPA Filtration without Interrupting Process Flow - 9054

Martin Wylde, MicroFiltrex (UK)

10:20 Factors Influencing HEPA Filter Performance - 9060

Charles Waggoner, Institute for Clean Energy Technology (USA); Michael Parsons, Mississippi State University, Institute for Clean Energy Technology (USA)

10:45 High Permeability Crossflow Filtration Systems for Low Cost, Minimum Size Liquid Waste Volume Reduction Equipment Compared and Contrasted with Evaporation as a Final Separation Treatment - 9550

Chris Chadwick, MicroFiltrex (UK)

11:10 Crossflow Ultrafilter Module Draining and Flush Testing for the Hanford Waste Treatment and Immobilization Plant - Lessons Learned in Declogging Crossflow Filters - 9511

Paul Townson, EnergySolutions; Phil Brackenbury, Bechtel National Inc (USA)

11:35 The Development of Microporous Metal - Ceramic Membrane Filters – 9250

Bob Herrmann, Microfiltrex (USA)

8:30 am – Session 28 Room
12:30 pm 222B

Programmatic, Regulatory and Statutory Issues and Solutions for LLW, ILW, Mixed, NORM and TENORM

Co-Chairs: Gabriele Bandt, TÜV NORD EnSys Hannover (Germany); Virgene Mulligan, American Radiation Services, Inc (USA)

Sponsor: Gabriele Bandt

Organizers: David Eaton, Gabriele Bandt

Paper Reviewer: Larry Camper

8:35 Waste Management Systems for the 21st Century at Oak Ridge National Laboratory - 9112

Sharon Robinson, Robert Jubin, Bradley Patton, ORNL; S.D. Van Hoesen, UT-Battelle, LLC (USA)

9:00 The National Low Level Radioactive Waste Act: Success or Failure - 9006

Richard Paton, Retired (USA)

9:25 Risk-informed Analytical Approaches to Concentration Averaging for the Purpose of Waste Classification - 9199

David Esh, Karen Pinkston, Cynthia Barr, A. Christianne Ridge, Anna Bradford, US NRC (USA)

9:50 The German Final Repository Konrad for Low and Intermediate Level Waste with Negligible Heat Generation - Water Law Issues - 9381

Wilma Boetsch, Detlef Gründler, Institute for Safety Technology; Stefan Steyer, Karin Kugel, Peter Brennecke, Federal Office for Radiation Protection (Germany)

10:20 Best in Class Project Management and Contract Management Initiative at the Department of Energy's Office of Environmental Management - 9540

Scott Van Camp, US DOE; Jeremy Stevenson, U.S. Army Corps of Engineers; Michael Deiters, Project Time & Cost (USA)

10:45 Depleted Uranium Classification - 9321
Priya Yadav, David Esh, Anna Bradford, US NRC (USA)

11:10 Development of a Comprehensive Radioactive Waste Management Program in the Kingdom of Morocco - 9266
Abderrahim Bouhi, CNESTEN (Morocco); Robert Fischer, LLNL (USA)

11:35 Disposal Concepts and Characteristics of Existing and Potential Low-Level Waste Repositories - 9076
Peter Johnson, LANL/New Mexico Institute of Mining and Technology; John Zurling, LANL (USA)

8:30 am – Session 29 Room 222A
10:15 am

D & D Technologies and Tactics

Co-Chairs: Rick Demmer, INL (USA); Mark Lyons, Studsvik, UK Ltd. (UK)
 Sponsor and Paper Reviewer: Rick Demmer
 Organizers: Rick Demmer, Detlef Schmidt

8:35 D&D Toolbox Project - Technology Demonstration of Fixatives Applied to Hot Cell Facilities via Remote Sprayer Platforms - 9370
Leonel Lagos, Peggy Shoffner, Giancarlo Pena, Florida Intl University / Applied Research Center; Paula Kirk, ORNL; Thomas Conley, UT-Battelle LLC/ ORNL; Edgard Espinosa, Florida International University (USA)

9:00 Use of Field High Resolution Gamma Spectroscopy During Decontamination and Decommissioning of Nuclear Facilities - 9220
David Lasher, Eberline Services, Inc. (USA)

9:25 Use of Fixatives to Accelerate Building Decontamination and Decommissioning (D&D) - 9047
Thomas Conley, UT-Battelle LLC/ ORNL; Paula Kirk, ORNL; Leonel Lagos, Peggy Shoffner, Florida Intl University / Applied Research Center; Theresa Walsh, Management Solutions LLC (USA)

9:50 Graphite Waste Tank Cleanup and Decontamination under Marcoule UP1 D&D Program - 9224
Jean-Michel Chabeuf, Thierry Varet, AREVA NC; Didier Boya, CEA (France)

10:15 am – Session 30 Room 222A
12:00 pm

Waste Optimization/Minimization During D & D

Co-Chairs: Maria Lindberg, Studsvik UK Ltd (UK); Jean-Jacques Grenouillet, EDF (France)
 Sponsor and Organizer: Maria Lindberg
 Organizer: Jas Devgun
 Paper Reviewer: Maria Lindberg

10:20 Applicability of Clearance Automatic Laser Inspection System to Clearance Measurement of Concrete Segments - 9129
Michiya Sasaki, Haruyuki Ogino, Central Research Institute of Electric Power Industry; Takatoshi Hattori, CRIEPI (Japan)

10:45 10 Years Return On Experience In Minimizing Metallic Radwaste Using The MEDOC Hard Chemical Decontamination Process - 9316
Kurt Van den Dungen, Eric Cantrel, SCK-CEN (Belgium)

11:10 Experimental Tests of Ultrasonic Decontamination of Metal Radioactive Waste - 9012
Albert Vasilyev, ANO MCEB; Olga Karlina, Alexander Savkin, SIA Radon (Russia)

11:35 Innovative D&D Technology Utilizing High Pressure Liquid Nitrogen for Scabbling, Cutting, and Decontamination - 9045
Mark Denton, Kurion, Inc.; Ron Warnecke, Nitrocision LLC (USA)

8:30 am – Session 31 Room 221C
12:00 pm

Technical Innovations in Environmental Remediation and Site Closure

Co-Chairs: Del Baird, CDM; Angie Jones, AMEC Nuclear, Ltd. (USA)
 Sponsor and Organizer: Del Baird
 Organizer: Angie Jones

8:35 Utilizing Innovative Technologies for Environmental Clean-up at Savannah River Site - 9144
Christopher Bergren, Savannah River Nuclear Solutions; Wade Whitaker, US DOE - SRNL; Mary Flora, Area Completion Projects, SRS (USA)

9:00 In-Situ Chemical Oxidation via Ozone at a Multiple-Remedy UST Site - 9124
Frederic Coll, URS Corporation - Washington Division; Richard Moore, URS Corporation (USA)

9:25 An Innovative Approach for Constructing an In-Situ Sequestration Barrier for Strontium-90 at the Hanford Site, Washington - 9325
Michael Thompson, US DOE; Jim Szecsody, Vince Vermeul, Mark Williams, John Fruchter, Robert J. Fellows, PNNL; Russel J. Fabre, CH2M HILL Plateau Remediation (USA)

9:50 Polyphosphate Remediation Technology for In-Situ Stabilization of Uranium - 9093
Dawn Wellman, Eric Pierce, Diana Bacon, Vince Vermeul, John Fruchter, PNNL; Sam Webb, Stanford Synchrotron Radiation Laboratory (USA)

10:20 Treatability Testing of an In-Situ Biostimulation Barrier for Nitrate and Chromium Treatment - 9126
Michael Truex, Vince Vermeul, John Fruchter, PNNL (USA)

10:45 Foam-Delivery of Remedial Amendment for Enhanced Vadose Zone Metal and Radionuclides Remediation - 9465
Lirong Zhong, Jim Szecsody, Nikolla Qafoku, Evan Dresel, Fred Zhang, PNNL (USA)

11:10 Innovative Uses of Organophilic Clays for Remediation of Soils, Sediments and Groundwater - 9507
Allen Bullock, CETCO (USA)

8:30 am – Session 32 Room 12:00 pm 221B

Technical Topics in Radioactive Materials Packaging

Co-Chairs: Frank Moussa, US DOE (USA); Robin Sweeney, US DOE - YMPO (USA)
 Sponsor and Paper Reviewer: Richard Yoshimura
 Organizer: Larry Harmon

8:35 Overview of the US DOE-EM Packaging Certification Program - 9417
Matt Feldman, ORNL; Marvin Bennett, Eagle Research Group, Inc.; James Shuler, US DOE, Office of Packaging and Transportation (USA)

9:00 A Comparative Analysis of Natural Convection Modeling Methods in a Horizontal Annulus and Its Application to Spent Nuclear Fuel Transfer Operations - 9206

Jesse Robles, Christopher Bajwa, US NRC; Emilio Baglietto, CD-adapco (USA)

9:25 Benchmark of Container Analysis Fire Environment Simulations against Large-Scale Calorimeter Fire Test Temperature Measurement - 9340
Marcelo del Valle, Miles Greiner, University of Nevada, Reno (USA)

9:50 The MacArthur Maze Fire: How Hot Was It? - 9223
Darrell Dunn, Christopher Bajwa, Earl Easton, US NRC (USA)

10:20 New Romanian Qualification Testing Facility for Type A, B and C Packages to be Used for Transport and Storage of Dangerous Goods- Class #7 Radioactive Material - 9079
Gheorghe Vieru, Institute for Nuclear Research (Romania)

8:30 am – Session 33 Room 12:00 pm 221A

Radiological Dispersion Devices (RDD)/Improvised Radiological (IRD)/Nuclear-Weapons of Mass Destruction (WMD): Detection, Response, Decontamination and Recovery

Co-Chairs: Larry Regens, University of Oklahoma, Health Sciences Center; Kim Auclair, KD Auclair & Associates, LLC (USA)
 Sponsor and Paper Reviewer: Kim Auclair
 Organizers: Larry Regens, Kim Auclair

8:35 Adaptive Management: A Paradigm for Remediation of Public Facilities - 9428
David Janecky, Jeffrey Whicker, LANL; Ted B. Doerr, MWH Americas, Inc. (USA)

9:00 Updated Decision Support Tool for the Management of Waste and Debris from Radiological Incidents - 9150
Paul Lemieux, Susan Thorneloe, US EPA; Colin Hayes, Molly Rodgers, Roger Christman, Eastern Research Group, Inc. (USA)

9:25 Spatial Interaction Modeling to Identify Potentially Exposed Populations during RDD or IND Terrorism Incidents - 9443

Larry Regens, James Gunter, Sangetta Gupta, University of Oklahoma Health Sciences Center (USA)

9:50 Sequestration Coating Performance Requirements for Mitigation of Contamination from a Radiological Dispersion Device - 9067
John Drake, US EPA (USA)

10:20 Security Requirements for Spent Fuel Storage Systems - 9264
Philip Brochman, Shana R. Helton, Elizabeth Thompson, US NRC (USA)

10:45 Lessons Learned from TOPOFF 4 - 9385
Ed Day, PELL Resources (USA)

8:30 am – Session 34 Room 229B
10:15 am

Panel: Graduating Students and New Engineers Wants and Needs - Are Companies Even Listening?

Co-Chairs: Robert Berry, Foxfire Scientific (UK); Leonel Lagos, Florida International University / Applied Research Center (USA)
Sponsor: Robert Berry
Organizers: Robert Berry, Leonel Lagos
Panel Reporter: Leonel Lagos

This panel will focus on new hires and graduating engineers having open lines of communication with employers. Considering the projected shortfalls in the workforce, effective communication of wants and needs of both the employer and employee must exist. Currently, it seems that both sides must work harder to achieve this level of communication. This communication will let students know what employers are looking for in terms of technical skills. With this new approach, both sides can express their wants and needs for a more satisfied workforce and a better work environment.

Panelists: **Diane Cochran**, Deputy Assistant Secretary, Human Capital & Business Services, US DOE; **John W. Poston Sr.**, Texas A&M University; **Collin Donohue**, Student, Colorado School of Mines; and **Denisse Arranda**, (DOE Fellow) Florida International University/Applied Research Center (USA)

10:15 am – Session 35 Room 229B
12:00 pm

Panel: International Youth Nuclear Conference/Young Professionals

Co-Chairs: Robert Berry, Foxfire Scientific (UK); Leonel Lagos, Florida International University / Applied Research Center (USA)
Sponsor and Panel Reporter: Robert Berry
Organizers: Robert Berry, Leonel Lagos

This panel will feature views on radioactive waste management from young persons' perspectives from all around the world. An informal panel-style format will enable the future leaders of our industry to share ideas and experiences, and of course, develop contacts within their peer group on a truly international level.

The session will be led by members of the Young Generation Network who will actively encourage participation from all those attending. The aim is to encourage fresh thinking and provide an opportunity for an open and frank discussion of issues.

8:30 am – Poster Session 36 Room 2nd Floor
12:30 pm

Posters: L/ILW, NORM & TENORM- A-D Nuclear Power Plants - E

Topic A: Waste Processing Methods and Operations

Co-Chairs: Tammy Monday, Perma-Fix Environmental Services, Inc.; Lance Mezga, ORNL (USA)
Sponsor and Paper Reviewer: Lance Mezga
Organizer: Frazier Bronson

A.1 Steam Reforming Technology Demonstration for Conversion of Hanford LAW Tank Waste and LAW Recycle Waste into a Leach Resistant Alkali Aluminosilicate Waste Form - 9354
Vishal Vora, Arlin Olson, Brad Mason, Brent Evans, Kevin Ryan, THOR Treatment Technologies, LLC; Hoyt Johnson, US DOE (USA)

- A.2 Biological Cleanup of Fission Products from Radioactive Waste Using Sulfate Reducing Bacteria as a Biosorbent** - 9207
Nonhlanhla Ngwenya, Evans Chirwa, University of Pretoria (Republic of South Africa)
- A.3 Solidification Testing for an Oak Ridge National Laboratory Waste Stream Using Grouts and Radiation Shielding Materials** - 9379
Jody Bickford, Martin Foote, MSE Technology Applications, Inc; Paul Taylor, ORNL (USA)
- A.4 Solidification Testing for Several Savannah River Low Level Waste Streams using Grouts, Sorbents and Gamma Radiation Shielding Materials** - 9378
Jody Bickford, Martin Foote, MSE Technology Applications, Inc; Heather Burns, WSRC (USA)
- A.5 Development of the Volume Reduction Treatment of Solid Waste System by Ultra-High Frequency Induction Furnace** - 9356
Tetsuro Sakakibara, Yoshio Aoyama, Hiromi Yamaguchi, JAEA; Naoto Sasaki, Minoru Takeshi Nishikawa, Mitsubishi Materials Corporation; Jong-Soo Park, Syoji Taniguchi, Tohoku University; Michiru Fujita, Fuji Electric Thermo Systems Corporation; Tomoyuki Fukuda, TYK Corporation; Hiroshi Suzuki, TYK Corporation (Japan)
- A.6 Graphite Waste Tank Cleanup and Decontamination under Marcoule UP1 D&D Program** - 9152
Jean-Michel Chabeuf, Thierry Varet, AREVA NC (France); Didier Boya, CEA (France)
- A.7 The Pretreatment of Low Level Radioactive Liquid Waste for Bituminization** - 9050
Guo Zhimin, Wang Xiaoqiang, He Junyong, Jiang Ming, Ren Yong, Sichuan Environmental Protection Engineering Co. Ltd. (China)
- A.8 Increased Capabilities for Thermal Desorption** - 9168
Timothy Orton, EnergySolutions (USA)
- A.9 Cement Solidification Method for Intermediate Level Liquid Waste including Sodium Sulfate (Na₂SO₄)** - 9365
Yoshiko Haruguchi, Masaaki Kaneko, Yu Yamashita, Tatsuaki Sato, Michitaka Sasoh,

Masamichi Obata, Toshiba Corporation (Japan)

- A.10 Radioactive Wastes Cementation during Decommissioning of Salaspils Research Reactor** - 9188
Gunta Abramenkova, University of Latvia; Andris Abramenkovs, Hazardous Waste Management State Agency; Maris Klavins, Faculty of Geographical and Earth Sciences, University of Latvia (Latvia)
- A.11 Vitrification of Radioactive Hospital Waste Incineration Ash** - 9149
Pawel Stoch, Institute of Atomic Energy (Poland)
- A.12 Commissioning Tests of the ULCHIN LLW Vitrification Facility in Korea** - 9107
Kyung Hwa Yang, Korea Hydro and Nuclear Power Co., Ltd.; Sang-Woon Shin, Nuclear Environment Technology Institute; Chan-Kook Moon, Korea Hydro and Nuclear Power Co., Ltd. (Korea)
- A.13 Low-Level Liquid Radwaste Treatment using Membrane Technologies.** - 9201
Denis Fedorov, Sergey Dmitriev, Alexander Savkin, SIA Radon (Russia); Artur Arustamov, Pentek, Inc. (USA)
- A.14 Waste and Pollution - the Silent Killers** - 9154
Sohail Raza Dodhy, Pakistan Hosiery Manufacturers Association (Pakistan)

Topic B: L/ILW NORM Waste Storage & Disposal Operations and Issues

Co-Chairs: Mark Lyons, Studsvik UK Ltd. (UK); Erich Tiepel, Golder Associates, Inc (USA)
Sponsor: Erich Tiepel
Organizer and Paper Reviewer: Colleen Owens

- B.1 Evaluation of Radon Release from Actinide-Bearing Waste Forms** - 9233
Gary Cerefice, University of Nevada, Las Vegas; Thomas O'Dou, University of Nevada, Las Vegas (USA)
- B.2 The Methodology on Exposure Dose Evaluation Modeling Related to Arbitrary Accident in the Temporary Storage Facility for Low and Intermediate Level Waste** - 9133
Min Ho Ahn, Korea Advanced Institute of Science and Technology; Kun Jae Lee, KAIST; Kyung-Woo Choi, Korea Institute of Nuclear Safety (Korea)

B.3 US DOE Pipeline Unplugging Requirements Development - 9361
Jose Rivera, (DOE Fellow), Florida International University / Applied Research Center; Rick Demmer, INL (USA)

B.4 Status of Toxic and Hazardous Waste Management in the Philippines: Issues, Concerns and Challenges - 9357
Eileen Bernardo, Isabela State University (Philippines)

Topic C: Waste Characterization and Classification

Co-Chairs: Frazier Bronson, Canberra Industries, Inc.; Stephen Croft, Canberra Industries, Inc. (USA)
 Sponsor, Organizer and Paper Reviewer: Frazier Bronson

C.1 Enriched Uranium Waste Assay at AWE - 9034
Timothy Miller, AWE (UK)

C.2 Estimated Uncertainty in Segmented Gamma Scanner Assay Results Due to the Variation in Drum Tare Weights - 9332
Andrey Bosko, Stephen Croft, Canberra Industries, Inc.; Ed Gulbransen, AREVA Federal Services LLC (USA)

C.3 Performance Comparison of the Segmented Gamma Scanning Method with the Far Field Method for Nuclear Waste Assay - 9021
Alan Simpson, Pajarito Scientific Corporation (USA)

C.4 Laser-Induced Breakdown Spectroscopy: Application to Nuclear Waste Management - 9166
Seong Yong Oh, Fang-Yu Yueh, Institute for Clean Energy Technology; Jagdish Singh, Institute for Clean Energy Technology - Mississippi State University; Kristine E. Zeigler, Savannah River Nuclear Solutions (USA)

C.5 Soil-to-Plant Transfer Factor of Uranium by Measuring Naturally Occurring Uranium at Trace Levels in Plants and Soils by ICP-MS - 9105
Keiko Tagami, Shigeo Uchida, National Institute of Radiological Sciences; Ikuko Hirai, Tokyo Nuclear Services Co., Ltd. (Japan)

C.6 Justification for Application of Historical Y-12 Default Radiological Activity Values to Legacy Waste - 9401
Gary Coleman, Bechtel Jacobs LLC (USA)

Topic D: L/ILW Waste Minimization

Co-Chairs: David Swale, EnergySolutions; Michael Connolly, INL (USA)
 Sponsor, Organizer and Paper Reviewer: Michael Connolly

D.1 Efforts to Reduce Radioactive Wastes at High Flux Advanced Neutron Application Reactor (HANARO) in Korea - 9190
Sung Paal Yim, Hoan Sung Jung, Guk-Hoon Ahn, In-Cheol Lim, KAERI; Cheo Kyung Lee, Handong Global University (Korea)

D.2 The Application of Molecular Recognition Technology (MRT) in the Nuclear Power Cycle: from Uranium Mining and Refining to Power Plant Waste Separation and Recovery, as well as Element Analysis - 9075
Steven Izatt, Ronald Bruening, Neil Izatt, IBC Advanced Technologies, Inc. (USA); John Dale, IBC Advanced Technologies, Inc. (Canada)

D.3 Purification of Lead-Bismut Eutectic Used in Accelerator Driven Systems - 9411
Lorenzo Ortiz Amaya, Johan Braet, SCK-CEN (Belgium)

D.4 Product Control of Waste Products with New Coating Materials - 9301
Hardi Krumbach, Reinhard Odoj, Forschungszentrum Jülich GmbH; Wilhelm Wartenberg, QSA-Global GmbH; Hartmut Grunau, Eisenwerk Bassum m.b.H; Hans-Jürgen Steinmetz, Research Centre Jülich (Germany)

D.5 Dexterity Test Data Contribute To Reduction In Leaded Glovebox Glove Use - 9055
Michael Cournoyer, Amanda Castro, Cindy Lawton, Steve Costigan, Steve Schreiber, LANL (USA)

3:20 National Institutional Model for Presenting Accurate Relevant Nuclear Science Information for People of All Ages and Interests - 9476

Jim Walther, National Museum of Nuclear Science & History (USA)

3:45 The Fernald Preserve Visitors Center: The Fernald Experience - Revealing, Engaging and Preserving - 9426

Jane Powell, US DOE Office of Legacy Management; Glenn Griffiths, Melissa Lutz, Sue Walpole, S.M. Stoller Corporation (USA)

4:10 End of an Era and Closing the Circle - Disposal of Strontium-90 Radioisotope Thermoelectric Generators - 9415

Dave Parks, BEA; Joel Grimm, US DOE; Jared Dominick, LLNL (USA)

4:35 Museums and Visitors Centers as a Tool for Communication of Nuclear Issues - 9492

Troy Wade, Nevada Test Site Historical Foundation (USA)

1:30 pm – 5:00 pm	Session 40	Room 224B
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Panel: International SNF Recycling - Status and Near Future Progress Assessment

Co-Chairs: James Buelt, PNNL; Sal Golub, US DOE, Office of Fast Reactor Development (USA)

Sponsor: Harry Babad

Organizers: James Buelt, Michael Lawrence

Panel Reporter: James Buelt

This panel session will focus on updating WM attendees on spent fuel recycling activities. The panel will discuss different reprocessing/recycling approaches, institutional issues (regulatory and non-proliferation), and broader political issues associated with making a bolder step forward for improving the sustainability of nuclear power through spent fuel recycling.

The drivers for recycling will be discussed, including: 1) improving US energy security through a reliable, diverse and sustainable domestic energy supply, 2) improving nuclear waste management and disposal, and 3) expanding the benefits of nuclear power internationally in a way that does not increase the risk of proliferation.

Counter arguments will also be discussed, including: 1) proliferation concerns over reprocessing technology and accumulated plutonium, 2) economic viability, and 3) adequacy of safeguards. The panel will consist of a series of introductory remarks by each of the panelists expressing their viewpoints on recycling followed by a question and answer session among the panel members and with the attendees.

Panelists: **Sal Golub**, Director, US DOE - Office of Fast Reactor Development, **Martin Wheeler**, EnergySolutions; **Dorothy Davidson**, AREVA; **Earl Saito**, GE-Hitachi, **Steve Kraft**, Nuclear Energy Institute (USA); **Ian Hudson**, Nuclear Decommissioning Authority (UK); and **Zvonko Lovasic**, International Atomic Energy Agency

1:30 pm – 3:15 pm	Session 41	Room 224A
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Panel: Nuclear Power Plant Waste Management - LLW Disposal Issues

Co-Chairs: John Remark, AREVA NP Inc; Mark Lewis, EnergySolutions (USA)

Sponsor, Organizer and Panel Reporter: Mark Lewis

This panel will feature senior nuclear utility managers discussing issues with US commercial LLW disposal site operators. It also provides the opportunity for representatives of US commercial LLW disposal facilities to update managers of radioactive waste at nuclear power plants on disposal site access and services provided.

Panelists: **Bret Rogers**, Sr. VP, EnergySolutions; **William Dornsife**, VP, Waste Control Specialists LLC; and **William House**, VP, EnergySolutions (USA)

3:15 pm – 5:00 pm	Session 42	Room 224A
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Panel: Nuclear Power Plant Waste Management - LLW Processor Issues

Co-Chairs: Mark Lewis, EnergySolutions; John Remark, AREVA NP Inc (USA)

Sponsor, Organizer and Panel Reporter: Mark Lewis

This panel will focus on US waste processors and provide the opportunity for representatives of US fixed-based processing facilities to update managers of radioactive waste at nuclear power plants on service and facility changes and improvements.

Fixed-based processing facilities provide a variety of waste volume reduction, treatment, and disposal services to help nuclear power waste generators to cost effectively and efficiently dispose of low-level radioactive waste within commercially regulated guidelines. Processors are continuously changing and improving on services, which necessitate periodic updates to stay abreast.

Panelists: **Troy Eshleman**, EnergySolutions; **Jimmy Harris**, Studsvik, Inc.; **Bill Smart**, Perma-Fix Environmental Services, Inc; **Greg Broda**, Impact, Inc.; and **Joseph Harverson**, Alaron Corporation (USA)

1:30 pm – Session 43 Room 223
5:00 pm

Advanced Technologies and Approaches Applied to Problematic, Special Case TRU Waste

Co-Chairs: Terry Wickland, Nuclear Filter Technology; Roger Nelson, US DOE (USA)
Sponsor and Paper Reviewer: Terry Wickland
Organizers: Roger Nelson

- 1:35 Final Evaluation of Characterizing Pipe-Over-Pack Containers Using High Efficiency Neutron Counters - 9086**
Sean Stanfield, AREVA Federal Services; Joe Wachter, Doug Cramer, Canberra Industries, Inc.; Joe Harvill, Washington TRU Solutions, LLC; Pete Carson, LANL (USA)
- 2:00 Waste Disposition Issues and Resolutions at the TRU Waste Processing Center at Oak Ridge TN - 9253**
Ronald Gentry, EnergX (USA)
- 2:25 Downblend and Disposition Remote Handled U-233 Material at the WIPP Facility - 9374**
Mark Polley, Isotek Systems (USA)
- 2:50 Automated Solutions for Identification of Abnormalities within Waste Streams - 9229**
Bryant Slater, Heather Bruemmer, Gary Smylie, Insei (USA)

- 3:20 Conversion Factors for Predicting Unshielded Dose Rates in Shielded Waste - 9162**
Rodney Arbon, Bechtel BWXT Idaho, LLC; James Seamans, Martin Clapham, Pajarito Scientific Corporation (USA)
- 3:45 Enhancing Liquid Availability through Mechanical Compaction: An Alternative to Incineration - 9095**
Rodney Arbon, Bechtel BWXT Idaho, LLC; Anna Carter, William Lattin, US DOE (USA)
- 4:10 Complications Associated with Long-Term Disposition of Newly-Generated Transuranic Waste: A National Laboratory Perspective - 9283**
Brady Orchard, Lisa Harvego, Timothy Carlson, Roy Grant, INL (USA)
- 4:35 EM Technical Review of the ARROW-PAK Container - 9439**
Yung Liu, Argonne National Laboratory; Steven Schneider, US DOE; James Shuler, US DOE Office of Packaging and Transportation (USA)

1:30 pm – Session 44 Room 222C
5:00 pm

Vitrification Experience and Glass Characterization

Co-Chairs: Ned Bibler, SRNL (USA); Christian Ladirat, CEA Valrho (France)
Sponsor and Paper Reviewer: Ned Bibler
Organizers: Keith Miller, Ned Bibler

- 1:35 Glass Formulation Development and Testing for Cold Crucible Induction Melter (CCIM) Advanced Remediation Technologies Demonstration Project - 9208**
James Marra, Amanda Youchak-Billings, David Peeler, SRNL; Michael Stone, WSRC; Thomas Edwards, Savannah River Nuclear Solutions, LLC (USA); Christophe Girold, Jean-Luc Dussosoy, CEA (France)
- 2:00 Infrared Imaging for the Control and Optimization of Waste Treatment by Vitrification - 9322**
Keith Witwer, AMEC Nuclear, Ltd; Troy Duncan, Edward Selle, Mark Storaasli, AMEC, GeoMelt Division (USA)
- 2:25 Methodology of Qualification of CCIM Vitrification Process Applied to the Decontamination Effluent of the La Hague UP2-400 Facility - 9142**

Alain Ledoux, Olivier Pinet, Agnès Grandjean, Jean-Luc Dussossoy, Philippe Gruber, Geoffroy Pruvost, Eric Tronche, J. Lacombe, CEA ; Sandrine Naline, Richard Do Quang, AREVA; Christian Ladirat, CEA Valrho; Eric Chauvin, AREVA NC (France)

2:50 Measurement and Calculation of Radionuclide Activities in Savannah River Site High Level Waste Sludge for Acceptance of Defense Waste Processing Facility Glass in a Federal Repository - 9399

Christopher Bannochie, Ned Bibler, David DiPrete, SRNL (USA)

3:20 Vitrification of HLLW Surrogate Solutions Containing Sulfate in a Direct-Induction Cold Crucible Melter - 9136

Eric Tronche, J. Lacombe, Alain Ledoux, Christian Ladirat, Roger Boen, CEA (France)

3:45 The Impact of Na-H+ Exchange on Long-Term Borosilicate Glass Corrosion: Experiments and Field Observations - 9404

Jonathan Icenhower, Eric Pierce, PNNL (USA); B McGrail, Battelle Pacific Northwest Division (USA)

4:10 Cold Crucible Induction Melter Testing at the INL for the Advanced Remediation Technologies Program - 9337

Jay Roach, Nick Soelberg, Mike Ancho, INL; Eric Tchemitcheff, AREVA Federal Services LLC; John Richardson, Vista Engineering (USA)

1:30 pm –	Session 45	Room
5:00 pm		222B

Performance of Disposal Systems, Facilities and Sites for LLW, ILW, MW, NORM and TENORM

Co-Chairs: Robert Hiergesell, Glenn Taylor, SRNL (USA)

Sponsor: James Cook

Organizers: James Cook, Robert Hiergesell

Paper Reviewer: Robert Hiergesell

1:35 Improving Consistency of Performance Assessments in the US DOE Complex - 9171

Martin Letourneau, Steve Krahn, US DOE; David Kosson, Charles Powers, CRESPP/Vanderbilt University; James Clarke, Vanderbilt University; Roger Seitz, Elmer Wilhite, SRNL (USA)

2:00 Capillarity in Concrete Disposal Vaults and its Influence in the Behavior of Isolation Barriers at El Cabril L/ILW Disposal Facility in Spain - 9015

Pablo Zuloaga, Manuel Ordoñez, ENRESA; Maarten W Saaltink, Polytechnic University of Catalonia; Marta Castellote, Instituto Eduardo Torroja IETCC-CSIC (Spain)

2:25 Cementitious Barriers Modeling for Performance Assessments of Shallow Land Burial of LLW - 9243

Glenn Taylor, SRNL (USA)

2:50 Safety Assessment of the New Very Low-Level Waste Disposal at El Cabril, Spain - 9042

Mariano Navarro, Pablo Zuloaga, Inmaculada Lopez, ENRESA (Spain)

3:20 Performance Assessment for the F-Tank Farm at Savannah River Site - 9462

Kent Rosenberger, SRS (USA)

3:45 Composite Analysis of LLW Disposal Facilities at the US DOE's Savannah River Site - 9158

Robert Hiergesell, Mark Phifer, Frank Smith III, SRNL (USA)

4:10 Risk-Insights Gained from Review of a Performance Assessment for Radioactive Waste Disposal - 9290

Cynthia Barr, Hans Arlt, George Alexander, Christopher McKenney, US NRC (USA)

4:35 Modelling Uranium Waste Residue Release and Transport within a Near Surface Repository - 9137

Simon Kwong, Joe Small, Olivia Thompson, NNL (UK)

1:30 pm –	Session 46	Room
5:00 pm		222A

Waste Characterization for LLW, ILW, MW

Co-Chairs: Frazier Bronson, Canberra Industries, Inc.; John Patterson, Strata-G (USA)

Sponsor and Paper Reviewer: Frazier Bronson

Organizers: Lance Mezga

1:35 Screening Excavated Soils For Spent Fuel Fragments Using A Compton To Cs-137 Photopeak Ratio Methodology - 9525

J. Stewart Bland, Chesapeake Nuclear Services; Paul Steinmeyer, Radiation Safety Associates, Inc.; Edward Traverso, Washington Closure Hanford (USA)

- 2:00 Soil Characterization by Large Scale Sampling of Soil Mixed with Buried Construction Debris at a Former Uranium Fuel Fabrication Facility - 9331**
A. Nardi, ENERCON Services, Inc.; Lisa Lamantia, Curtiss-Wright Electro-Mechanical Corporation (USA)
- 2:25 Optimum Method to Determine Gamma Activity in Large Boxes of Radioactive Material - In-toto Measurement vs. Sample Extraction - 9246**
Frazier Bronson, Kara Morris, Canberra Industries (USA)
- 2:50 Meeting the Challenge: How to Assay Diverse Drummed Waste Types with a Flexible Tomographic Gamma Scanner - 9472**
Wilhelm Mueller, Stephen Croft, S.C. Kane, P.M. McClay, Robert McElroy, Ram Venkataraman, Marcel Villani, Dusan Lexa, Canberra Industries, Inc. (USA); G. Lafranco, K. Seidl, Canberra Packard Central Europe, GmbH; Wolfgang Neckel, Nuclear Engineering Seibersdorf GmbH (Austria)
- 3:20 An Alternate Approach to the Add-A-Source Matrix Calibration for SLB-2 Containers in the Box Neutron Assay System - 9339**
Andrey Bosko, Stephen Croft, Robert McElroy, Sasha Philips, Marcel Villani, Canberra Industries, Inc. (USA)
- 3:45 Comparison of Deadtime Correction Factors for Passive Neutron Multiplicity Counting of Correlated and Non-Correlated Neutron Sources - 9298**
Louise Evans, Paul Norman, University of Birmingham (UK); Stephen Croft, N. Menaa, Canberra Industries, Inc. (USA)
- 4:10 Nuclear Calibration of a Large Volume Calorimeter - 9318**
Eloisa Alvarez, Ken Lambert, Canberra Industries, Inc. (UK); Stephen Croft, Sasha Philips, Canberra Industries, Inc. (USA); Juliette Guerault, Setaram Instrumentation (France)
- 4:35 Recent Advances in Low-Level Nuclear Measurements at CEA - 9212**
Christophe Le Goaller, Fabrice Lamadie, Charly Mahé, CEA (France)

1:30 pm – 5:00 pm	Session 47	Room 221C
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The International Decommissioning Network of the IAEA

Co-Chairs: Jas Devgun, Sargent & Lundy, LLC (USA); Hans-Frieder Beer, Paul Scherrer Institute (Switzerland)

Sponsor and Paper Reviewer: Michele Laraia
 Organizers: Michele Laraia, Albert Freitag
 Paper Reviewer: Michele Laraia

1:35 The Reuse of Decommissioned Facilities and Sites as an Emerging Means to Alleviate the Decommissioning Burden and its Potential Applications within IAEA's International Decommissioning Network - 9001
Michele Laraia, IAEA (Austria)

2:00 French Atomic Energy Commission Decommissioning Programme and Feedback Experience - 9080
Jean-Pierre Rozain, Jean-Guy Nokhamzon, Catherine Lecomte, CEA/SACLAY (France)

2:25 Reuse of East Tennessee Technology Park (Former K-25 Site) on the Oak Ridge Reservation: Progress, Problems, and Prospects - 9346
Susan Gawarecki, ORR Local Oversight Committee (USA)

2:50 Focus on International Co-Operation in D&D Cost Estimations for Research Reactors and the Role of the IAEA in it - 9363
Vladimir Daniska, DECONTA, a.s. (Slovak Republic); Michele Laraia, IAEA (Austria)

3:20 The Role of Stakeholders in the Decommissioning of SALASPILS Research Reactor - 9109
Andris Abramkovs, Hazardous Waste Management State Agency (Latvia)

3:45 International Decommissioning Network as a Forum to Support Decommissioning Activities in Countries with Limited Resources and Experience: the Serbian Case - 9026
Vladan Ljubenov, Milijana Steljic, Dragana Nikolic, Vinca Institute of Nuclear Sciences (Republic of Serbia)

4:10 Barsebäck NPP in Sweden- Decommissioning Project - 9350
Håkan Lorentz, Barsebäck Kraft AB (Sweden)

1:30 pm – Session 48 Room
5:00 pm 221B

Transportation of SNF and Radioactive Material

Co-Chairs: Ella McNeil, US DOE; Paul Jones, DeNuke Services, Inc. (USA)
Sponsor: Alexander Thrower
Organizer: Larry Harmon
Paper Reviewer: Paul Jones

1:35 Transport of Spent Nuclear Fuels, High and Intermediate Level Wastes: A Continuous Challenge. - 9216

Camille Otton, AREVA TN International (France)

2:00 The US DOE Project to Exchange Fuel between Idaho National Laboratory and the Savannah River Site: How the Office of Environmental Management's Efforts Are Helping the Yucca Mountain Project's Logistics Planning - 9311

Hitesh Nigam, Alexander Thrower, Ella McNeil, US DOE (USA)

2:25 The Question of Queue: Implications for "Best Practice" in Cross-Country Transport of Commercial Spent Nuclear Fuel - 9402

James Williams, Western Interstate Energy Board (USA)

2:50 Current Status of the Nevada Rail Project and Plans to Service the Repository by Rail - 9405

Randolph Coppage, Booz Allen Hamilton; Ned Larson, US DOE (USA)

3:20 Packaging and Transportation of Depleted Uranium for Disposition from the Savannah River Site - 9447

Dawn Gillas, US DOE / SR / AMNMSP; Jeb Berg, Cavanagh Services Group, Inc. (USA)

3:45 The Commercial Vehicle Safety Alliance North American Standard Level VI Inspection Program: Ensuring Safe Transportation of Radioactive Materials - 9408

Larry Stern, Commercial Vehicle Safety Alliance; Peter Bolton, Booz Allen Hamilton (USA)

4:10 Shipment of Spent Nuclear Fuel from the Nuclear Research Institute Rez Plc, Czech Republic to the Russian Federation for Reprocessing - 9422

Josef Podlaha, Nuclear Research Institute Rez PLC (Czech Republic)

1:30 pm – Session 49 Room
5:00 pm 221A

ER Post Closure Challenges and Long Term Stewardship/Legacy Management

Co-Chairs: Raymond Plienness, US DOE; David Wallace, CDM (USA)
Sponsor: Erich Evered
Organizers: Angela Watmore, Raymond Plienness
Paper Reviewer: David Wallace

1:35 Remediation of Uranium at the US DOE's Legacy Management Sites - 9438

Stan Morrison, Cathy Glassmeyer, Ken Broberg, David Miller, Timothy Bartlett, Clay Carpenter, Carl Jacobson, John Boylan, William A. Hertel, S.M. Stoller Corporation; Jalena Dayvault, Tracy Ribeiro, US DOE; Jane Powell, Scott Surovchak; Richard Bush, US DOE, Office of Legacy Management (USA)

2:00 Nevada Offsites Long-Term Hydrologic Monitoring Program - 9424

Mark Kautsky, US DOE; Lauren Branstetter, Colorado State University; Rex A. Hodges, Rick Findlay, Dave M. Peterson, S.M. Stoller Corporation; Jack Craig, US DOE - Office of Legacy Management; Jalena Dayvault, US DOE (USA)

2:25 Balancing Subsurface Restrictions and Resource Access under Conditions of Changing Land Use at the Rulison Underground Nuclear Test Site, Piceance Basin, Colorado, USA - 9440

Jenny Chapman, Clay Cooper, Desert Research Institute; Ming Ye, Florida State University; Rex A. Hodges, Richard Hutton, S.M. Stoller Corporation; Jack Craig, US DOE - Office of Legacy Management; Thomas Pauling, US DOE (USA)

2:50 Plant Mounds as Concentration and Stabilization Agents for Actinide Soil Contaminants - 9175

David Shafer, Desert Research Institute; Jenna Gomes, University of Nevada, Reno (USA)

3:20 Monitoring the Long-Term Performance of Engineered Containment Systems: Role of Ecological Processes - 9418

Joanna Burger, Rutgers University- Division of Life Sciences; William (Jody) Waugh, S.M. Stoller Corporation; James Clarke, Brooke Traynham, Vanderbilt University (USA)

3:45 Short and Long-Term Fire Impacts on Hanford Barrier Performance - 9449
Kevin Leary, US DOE; Andy Ward, PNNL; Steven Link, Washington State University; Greg Berlin, Fluor Hanford, Inc.; Jerry Cammann, Fluor Government Group; Michelle Lynn-Yates Mandis, WA State Department of Ecology; Laura C. Buelow, US EPA (USA)

4:10 Employing Interim Water Management Barriers at Waste Disposal Area - 9255
Daniel Sullivan, US DOE; Daniel Meess, Emil Selent, K. K. Gupta, Cynthia Dayton, David Garber, West Valley Environmental Services, LLC (USA)

4:35 Integrating Modeling and Monitoring to Provide Long-Term Control of Contaminants - 9478
Thomas Fogwell, Weiss Associates (USA)

1:30 pm - Poster Session 50 Room
5:30 pm 2nd Floor

**Posters: Environmental Remediation – A-C
 Security, Safety & Safeguards - D
 Communications & Education - E-F**

Topic A: Technical Innovations in Site Remediation

Co-Chairs: Donald Clark, DEC Enterprises; Del Baird, CDM (USA)
 Sponsor and Organizer: Angie Jones
 Paper Reviewer: Donald Clark

A.1 Lowering Net Methyl Mercury Production in Lower East Fork Poplar Creek, Oak Ridge Reservation, Tennessee - 9155
Diane Jordan, Jay Cornish, MSE Technology Applications, Inc.; George Southworth, ORNL (USA)

A.2 Development of Reference Cases for Use in the Cementitious Barriers Partnership Long Term Performance Evaluation - 9446
Christine Langton, WSRC; David Kosson, CRESO / Vanderbilt University; Andrew Garrabrants, Vanderbilt University (USA)

A.3 Phytotoxicity and Phytoremediation Potential of Mercury in Indian Mustard and Two Ferns with Mercury Contaminated Water and Oak Ridge Soil - 9241
Yi Su, Fengxiang X. Han, David Monts, Jian Chen, Safwan Shiyab, Mississippi State University (USA)

A.4 Decontamination of Soils Contaminated with Co and Cs by Using an Acid Leaching Process - 9185
Jung-Joon Lee, Gye-Nam Kim, Jei-Kwon Moon, Kune-Woo Lee, KAERI (Korea)

A.5 Remediation of Cretaceous Sediments Affected by Uranium In-Situ Leaching (ISL) in the Czech Republic - 9108
Josef Tomas, Ministry of the Environment; Jiri Muzak, DIAMO S.E. (Czech Republic)

A.6 Automating Groundwater Sampling at Hanford - 9373
Carl Connell, Scott Conley, Fluor Hanford (USA); DeVon Cunningham, Lockheed Martin Information Technology (USA); R. Douglas Hildebrand, US DOE (USA)

A.7 Fernald Preserve Aquifer Restoration Extraction Well and Pump Maintenance Improvements - 9427
William A. Hertel, Cathy Glassmeyer, S.M. Stoller Corporation; Jane Powell, US DOE - Office of Legacy Management (USA)

Topic B: Modeling to Predict Fate and Transport and Ensure Compliance

Co-Chairs: Angie Jones, AMEC Nuclear, Ltd.; Del Baird, CDM (USA)
 Sponsor: Angie Jones
 Organizer and Paper Reviewer: James Wright

B.1 Overview of Environmental Transport Models Contained in the Risk Analysis, Communication, Evaluation, and Reduction (RACER) Software Tools at Los Alamos National Laboratory - 9070
Arthur Rood, K - Spar Inc; Bruce Jacobs, Peter Shanahan, HydroAnalysis Inc.; James Rocco, Lesley Hay-Wilson, Sage Risk Solutions LLC; Helen Grogan, Cascade Scientific; John Till, Risk Assessment Corp.; H. Justin Mohler, Bridger Scientific; Jill W. Aanenson, Scientific Consulting (USA)

B.2 Development of a Conceptual Model for Vadose Zone Transport of Tc-99 at Hanford's BC Cribs and the Screening of Remedial Alternatives - 9458
Andy Ward, Jeffrey Serne, PNNL; Mark Benecke, CH2M HILL Plateau Remediation Company (USA)

B.3 An Approach for Estimating the Total Effective Dose at Atmospheric Nuclear Weapons Test Sites – 9235

Harold Anagnostopoulos, *Stoller-Navarro Joint Venture*; **Raymond Kidman**, *Patrick Matthews*, *Stoller-Navarro*; **John Jones**, *NNSA NSO*; **Jeff MacDougall**, *Nevada Division of Environmental Protection (USA)*

Topic C: Risk Based Decision Making

Co-Chairs: Terry Sams, Parsons Infrastructure and Technology; Angie Jones, AMEC Nuclear, Ltd. (USA)

Sponsor and Organizer: Angie Jones

Paper Reviewer: Terry Sams

- C.1 Management and Beneficial Reuse of Overburden Material - Lined Formerly Utilized Sites Remedial Action Program (FUSRAP) Remediation Project - 9319**
James Boyle, US ACE; Mark Schwippert, William Lorenz, The Shaw Environmental & Infrastructure (USA)
- C.2 Concentration, Soil-to-Plant Transfer Factor, and Soil-Soil Solution Distribution Coefficient of Selenium in the Surface Environment - 9106**
Shigeo Uchida, Keiko Tagami, Nao Ishikawa, National Institute of Radiological Sciences (Japan)
- C.3 Study of Bioaccumulation Hg By Oreochromis Mossambicus Using Radiotracer Techniques - 9189**
Heny Suseno, National Nuclear Energy Agency; Djarot Wisnubroto, Indonesia Nuclear Energy Agency; A. Budiawan, Sumi Hudiyono, University of Indonesia (Indonesia)
- C.4 Meteor Burst Remote Monitoring System Deployment at US DOE Hanford Site - 9375**
Andrea Hart, Jack Joyce, MSE Technology Applications, Inc; Andy Ward, Chris Strickland, PNNL (USA)
- C.5 Department of Energy's Environmental Management of Legacy Waste: Successes and Challenges - 9515**
Michael Gochfeld, Consortium for Risk Evaluation with Stakeholder Participation (CRESP); Henry Mayer, Rutgers University - CRESP; James Clarke, Lisa Bliss, Vanderbilt University; David Kosson, Charles Powers, CRESP/Vanderbilt University; Joanna Burger, Rutgers University- Division of Life Sciences (USA)

Topic D: Security, Safety and Safeguards

Co-Chairs: Kim Auclair, KD Auclair & Associates, LLC (USA); Hugh Abbott, ABNC Ltd (UK)

Sponsor, Organizer and Paper Reviewer: Kim Auclair

D.1 Impacts of the Events on the 11th of September 2001 in the United States on Radiation Protection, the Nuclear Waste Management and the Nuclear Security in Germany - 9304

Hardi Krumbach, Reinhard Odoj, Forschungszentrum Jülich GmbH; Hans-Jürgen Steinmetz, Research Centre Jülich (Germany)

D.2 Safe Management of Sealed Radiation Sources in Ghana - 9010

Augustine Faanu, Ghana Atomic Energy Commission; John Justice Fletcher, Graduate School of Nuclear and Allied Sciences; Eric Glover, National Nuclear Research Institute (Ghana)

Topic E: Communicating Technical Solutions to Stakeholders

Co-Chairs: Cherri Defigh-Price, Parsons; Dale Bignell, Washington Closure Hanford (USA)

Sponsor: James Hylko

Organizer: Leonel Lagos

Paper Reviewer: Cherri Defigh-Price

E.1 How Nuclear Waste Management Professionals Can Better Communicate the Essentials of Hazardous Materials Management to the General Public - 9036

Richard Cartwright, MECX, LP (USA)

E.2 Remedial Investigation of Hanford Site Releases to the Columbia River - 9485

Jeff Lerch, Washington Closure Hanford (USA)

Topic F: The Art of Communication with People on Nuclear Related Topics

Co-Chairs: Cherri Defigh-Price, Parsons; Dale Bignell, Washington Closure Hanford (USA)

Sponsor: Leonel Lagos

Organizer: James Hylko

Paper Reviewer: Cherri Defigh-Price

F.1 Radiation Safety Response: Simulated Patient Drill at an Academic / Research University - 9027

Kenneth Nichter, University of Louisville (USA)

F.2 Key Issues of Personnel Education and Training in the Context of Changing Radioactive Waste Management Conception - 9053

Olga Batyukhnova, SUE SIA Radon (Russia); Artur Arustamov, Pentek, Inc. (USA); Michael Ojovan, University of Sheffield (UK); Sergey Dmitriev, SIA Radon (Russia); Zoran Drace, IAEA (Austria)

F.3 Public Education and Radioactive Waste - 9389

Sondra Sarten, RS Construction & Fabrication, Inc. (USA)

F.4 Sustainable Design and Construction of the Fernald Preserve Visitors Center - 9433

Mary Sizemore, S.M. Stoller Corporation; Jane Powell, US DOE - Office of Legacy Management; Kristine Cornils, Demand Management Inc. (USA)

F.5 Alternative Wastewater Treatment: On-Site Biotreatment Wetlands at the Fernald Preserve Visitors Center - 9434

John Homer, Cathy Glassmeyer, S.M. Stoller Corporation; Nancy Sauer, URS Corp.; Jane Powell, US DOE - Office of Legacy Management (USA)

MARCH 4, 2009 WEDNESDAY AM

**8:30 am – Session 51 Room
10:15 am 229A**

Panel: US DOE Procurement and Contracting Opportunities

Co-Chairs: Cathy Hickey, URS Washington Division; John Longenecker, Longenecker & Associates (USA)

Sponsor and Panel Reporter: Cathy Hickey
Organizers: John Longenecker, Cathy Hickey

The panel will focus on the procurement process and what lessons learned and best practices have been developed by US DOE and NNSA over the last year. Major procurements have occurred over the last year and several large contracts have been successfully awarded.

Senior contracting officials will discuss the vision of the US DOE and proposed actions. WM2009 Exhibitors are encouraged to attend this panel session (A Technical Session badge is not required).

Panelists: **John (Jack) Surash**, Deputy Assistant Secretary - Acquisition & Project Mgmt., US DOE; **Edward Simpson**, Director, Office of Procurement & Assistance Mgmt., US DOE; **Ralph Holland**, Assistant Director, Office of Contracting - EM CBC, US DOE; and **Steve Mournighan**, Vice President, Longenecker & Associates, Inc. (USA)

**10:15 am – Session 52 Room
12:00 pm 229A**

Panel: US DOE Contractor's Procurement and Contracting Opportunities

Co-Chairs: Steven Houser, TN & Associates, Inc.; John Coffman, DeNUKE Services, Inc. (USA)

Sponsor: Steven Houser

Organizers: Steven Houser, John Coffman

Panel Reporter: John Coffman

This panel session will focus on procurement and contracting opportunities with the US DOE's contractors. US DOE encourages its prime contractors to obtain goods and services from small and disadvantaged businesses. Their Award fee is based partially on the contractor's success in achieving specific goals for subcontracts with small and disadvantaged businesses.

Goods and services being considered for subcontracting include: D&D services, remediation services, transportation and disposal of radioactive waste, health physics equipment and services, emergency response planning and training, lab services, R&D products, waste treatment services, maintenance services, A&E services, and professional consulting. This session complements Session 51 which focuses on contracting activity directly with the US DOE. WM2009 Exhibitors are encouraged to attend this panel.

Panelists: **Ralph Holland**, Asst. Director, Office of Contracting - EM CBC, US DOE; **John Lehew**, President, CH2M HILL Plateau Remediation Company; **J.D. Chiou**, Vice President, Savannah River Nuclear Solutions; **Keith Joy**, Manager, Small Business Programs, ORNL; **Michael J. Graham**, LANL; and **Doug Heal**, WSMS Hanford (USA)

8:30 am – 10:15 am **Session 53** **Room 224B**

Panel: Disposition of US DOE High-Activity Mixed LLW: What Capacity Do We Really Need?

Co-Chairs: Dick Blauvelt, Navarro Research & Engineering Inc; Christine Gelles, US DOE (USA)
Sponsor, Organizer and Panel Reporter: Dick Blauvelt

This panel will focus on the disposition of US DOE high-activity mixed hazardous/radioactive waste (MW). The US DOE sites have the bulk of the inventory of high-activity MW. There is a window of opportunity for disposition of treated mixed LLW at the US DOE Nevada Test Site, but shipments to date have fallen far short of projections. When that window is closed in 2010 what options could be and/or should be pursued to secure continued access for future disposition of mixed Class B and C LLW inventories from US DOE and to a lesser extent from the commercial sector?

Panelists: **Christine Gelles**, Director, Office of Disposal Operations, US DOE; **Jeffrey Mousseau**, Bechtel BWXT Idaho, LLC; **Jhon Carilli**, US DOE; **Ty Blackford**, VP Waste Management, CH2M HILL Plateau Remediation Company; **Chris Duy**, LANL; **Paul Larsen**, VP, EnergySolutions; **Renee Echols**, Sr. VP, Sales and Marketing, Perma-Fix Environmental Services, Inc.; and **Michael Lauer**, VP, Customer Services, Waste Control Specialists, LLC

10:15 am – 12:00 pm **Session 54** **Room 224B**

Panel: US NRC (10 CFR 61 Regulations) Compared to US EPA (RCRA Regulations) Disposal Sites: Viable Options for US Very Low-Level Waste Disposal

Co-Chairs: Larry Camper, US NRC; James Clarke, Vanderbilt University (USA)
Sponsor and Organizer: Larry Camper
Panel Reporter: David Esh

This panel will focus on a comparison of the technical and regulatory criteria associated with 10 CFR Part 61 and RCRA sites with an emphasis on addressing the viability of using RCRA sites for disposal of very low-activity radioactive waste (LAW).

The discussion will include attempting to define very LAW and addressing stakeholder concerns regarding the use of RCRA facilities for disposal of very LAW. The panel will also consider the role of clearance and conditional disposal as relates to the issue of using 10 CFR Part 61 sites versus RCRA sites for very LAW disposal.

Panelists: **James Kennedy**, Senior Project Manager, LLW, US NRC; **Christine Gelles**, Director, Office of Disposal Operations, US DOE; **Daniel Schultheisz**, US EPA; **William Dornsife**, VP, Waste Control Specialists LLC; **Lewis Johnson**, President, Studsvik, Inc.; and **Stephen Romano**, President, American Ecology Corporation

8:30 am – 12:00 pm **Session 55** **Room 224A**

Operating Experience and Progress in the Conditioning, Storage or Disposal of HLW and SNF

Co-Chairs: Bernard Vigreux, French Nuclear Energy Society (France); Edward Ketusky, WSRC (USA)
Sponsor and Paper Reviewer: Bernard Vigreux
Organizer: Harry Harmon

8:35 Treatment of Corroded Metallic Uranium Fuel - 9213

Robert Hedvall, *Henrik Stridsman*, AB SVAFO; *Ella Ekeroth*, *Bengt Hallberg*, *Erik Hellsten*, *Sture Nordlinder*, Studsvik Nuclear AB (Sweden); *Maria Lindberg*, Studsvik UK Ltd (UK)

9:00 Evaluation of a Mobile Hot Cell Technology for Processing Idaho National Laboratory Remote-Handled Wastes - 9278

Brady Orchard, *Lisa Harvego*, *Robert Miklos*, INL; *Frederick Yapuncich*, AREVA; *Laurent Care*, AREVA TA LLC (USA)

9:25 A Guide for Successful Test Facility Installation and Operation: The Hanford Waste Treatment and Immobilization Plant (WTP) Pretreatment Engineering Platform - 9128

Jeffrey Markillie, *Washington Division*, URS Corporation; *W. E. Lawrence*, Pacific Northwest National Laboratory; *R.A. Gilbert*, US DOE (USA)

9:50 Assessment and Design for Erosion from High Level Waste Slurrries on the Waste Treatment Plant - 9409

Ivan Papp, Garth Duncan, Bechtel National, Inc. (USA)

10:20 Development and Testing of a Near Tank Cesium Removal Process - 9222

David Blanchard, Diana Tran, Dean Kurath, Battelle Pacific Northwest Division; Terry Sams, Parsons Infrastructure and Technology (USA)

10:45 Impact of Irradiation on Solvent Used in SRS Waste Treatment Processes - 9122

Michael Poirier, John Pareizs, Ned Bibler, SRNL; Samuel Fink, Savannah River Nuclear Solutions (USA)

11:10 Status of Mechanical Sludge Removal and Cooling Coil Closure at the Savannah River Site - F Tank Closure Project - 9225

Rudy Jolly, Washington Savannah River Site (USA)

11:35 Downstream Impacts of Sludge Mass Reduction via Aluminum Dissolution on DWPF Processing of Savannah River Site High Level Waste - 9382

John Pareizs, Christopher Bannochie, Michael Hay, Daniel McCabe, SRNL (USA)

8:30 am –	Session 56	Room
10:15 am		223

TRU Small Quantity Sites - Plans for Utilizing the Consolidation Option at Idaho National Laboratory (INL)

Co-Chairs: Betty Humphrey, Weston Solutions, Inc.; Sheila Lott, Los Alamos National Laboratory (USA)

Sponsor and Paper Reviewer: Betty Humphrey

Organizer: Sheila Lott

Paper Reviewer: Betty Humphrey

8:35 TRU Waste Inventory Collection and Work Off Plans for the Centralization of TRU Waste Characterization/Certification at INL - On Your Mark-Get Set - 9410

Sheila Lott, Jerri McTaggart, LANL; Casey Gadbury, US DOE (USA)

9:00 Once Upon A Repackaging Effort - 9407

Michael Spoerner, SNL; Betty Humphrey, Weston Solutions, Inc. (USA)

9:25 Transuranic (TRU) Waste Repackaging at the Nevada Test Site - 9287

Patrick Arnold, CH2M HILL - National Security Technologies; Frank Disanza, US DOE Nevada Site Office; Gary Pyles, National Nuclear Security Administration; John Ciucci, NSTEC (USA)

9:50 Innovative Applications of In-Situ Gamma Spectroscopy for Non-Destructive Assay of Transuranic Wastes - 9344

Dave Watters, Joseph Weismann, Cabrera Services, Inc. (USA)

10:15 am –	Session 57	Room
12:00 pm		223

Yucca Mountain: Perspectives from Around the Mountain

Co-Chairs: Nancy Zacha, Radwaste Solutions; Linda Lehman, CH2M HILL Plateau Remediation Company (USA)

Sponsor: Leif Eriksson

Organizer and Paper Reviewer: Linda Lehman

10:20 The 2001 and 2008 Yucca Mountain Repository Standards: Errors Due to a Legal Dilemma That Needs to be Resolved - 9078

Dade Moeller, Dade Moeller & Associates (USA)

10:45 Effect of Physical Processes on Radionuclide Release from Partially Failed Containers - 9260

Lubna Hamdan, John Walton, Arturo Woocay, University of Texas at El Paso (USA)

11:10 The Yucca Mountain Repository - Too Little, Too Late - 9005

Leif Eriksson, Consultant; David Pentz, The Pentz Consulting Company, Inc. (USA)

8:30 am –	Session 58	Room
10:15 am		222C

Worldwide Technical Innovations in HLW Treatment - Waste Chemistry

Co-Chairs: Renee Spires, WSRC; Eric Tchemitcheff, AREVA Federal Services LLC (USA)

Sponsor: Christophe Girold

Organizers: Terri Fellingner, Keith Miller

Paper Reviewer: Tom Brouns

8:35 Aluminum Solubility Model for Hanford Tank Waste Treatment - 9123

Stephen Agnew, Columbia Energy; Jacob Reynolds, URS Washington Division; Clifford Johnston, Purdue University (USA)

9:00 Boehmite Dissolution Studies Supporting High Level Waste Pretreatment - 9383

Reid Peterson, Renee Russell, Lanee Snow, Pacific Northwest National Laboratory (USA)

9:25 Full-Scale Testing of Pipeline Unplugging Technologies - NuVision's Fluidic Wave-Action Technology - 9236

Seckin Gokaltun, Dwayne McDaniel, Jose Varona, Amer Awwad, David Roelant, Florida International University; Erich Keszler, NuVision Engineering Inc. (USA)

9:50 Modeling of Sediment Bed Behavior for Critical Velocity in Horizontal Piping - 9263

David Rector, Adam Poloski, Mark Stewart, PNNL (USA)

10:15 am – Session 59 Room 222C

Strategic Options for Spent Fuel Management

Co-Chairs: Gérald Ouzounian, ANDRA (France); Keith Miller, NNL (UK)

Sponsor: Leif Eriksson

Organizer: Gérald Ouzounian

Paper Reviewer: Harry Babad

10:20 International Atomic Energy Agency (IAEA) Activity on Technical Influence of High Burnup UOX and MOX Water Reactor Fuel on Spent Fuel Management - 9065

Zvonko Lovasic, IAEA (Austria); Robert Einziger, US NRC (USA)

10:45 Nuclear Proliferation Risk Mitigation Approaches and Impacts in the Recycle of Used Nuclear Fuel in the USA - 9059

Stuart Arm, Chris Phillips, EnergySolutions (USA); Kevin Hesketh, Robert Gregg, NNL (UK)

11:10 Safe and Efficient Management of Waste at Sellafield - 9461

Alan Jackson, NDA; Stephen Ellery, Sellafield LTD (UK)

8:30 am – Session 60 Room 222B

Operating Experience in the Treatment and Storage of LLW, ILW, MW, NORM and TENORM

Co-Chairs: Heinz Kroeger, TuV Nord EnSys Hannover (Germany); Paul Macbeth, US DOE Richland Operations Office (USA)

Sponsor and Paper Reviewer: Heinz Kroeger

Organizers: Luis Valencia, David Abbott

8:35 The Role of the National Low Level Waste Repository In Delivering New Solutions for the Management Of Low Level Wastes in the UK - 9215

Martin Walkingshaw, Jonathan Evans, LLW Repository Ltd (UK)

9:00 Operational Experience in the Management of Radioactive Waste from Past Practices - 9362

Azucena Sanhueza-Mir, Comision Chilena de Energia Nuclear (Chile)

9:25 Lessons Learned from Independent Technical Reviews of US DOE Low-Level Radioactive Waste Landfills/Disposal Facilities - 9056

Vince Adams, Dinesh Gupta, US DOE; John Smegal, Legin Group, Inc. (USA)

9:50 Options for Disposal and Reapplication of Depleted Uranium Hexafluoride - 9011

Stanley Fitch, Trinitek Services, Inc. (USA)

10:20 Air Emissions Sampling from Vacuum Thermal Desorption for Mixed Wastes Designated with a Combustion Treatment Code for the EnergySolutions LLC Mixed Waste Facility - 9099

Otis Willoughby, Utah Department of Environmental Quality (USA)

10:45 Savannah River Site - Saltstone Disposal Facility Performance Assessment Update - 9240

Jeffry Newman, Savannah River Nuclear Solutions (USA)

11:10 Buffer Construction Methodology in Demonstration Test for Cavern Type Disposal Facility - 9182

Yoshihiro Akiyama, Takahiro Nakajima, Katsuhide Matsumura, Kenji Terada, Takao Tsuboya, Radioactive Waste Management Funding and Research Center; Kazuhiro Onuma, Hazama Corporation; Tadafumi Fujiwara, Taisei Corporation (Japan)

11:35 Experiences on Management of the Bituminization Project at the Southwest Radioactive Waste Management Centre in China - 9049
Guo Zhimin, Sichuan Environmental Protection Engineering Co., Ltd. (China)

8:30 am – Session 61 Room 12:00 pm 222A

Worldwide Waste Management Regulatory and Oversight Crosscutting Programs Update

Co-Chairs: Ray Clark, US EPA; Christopher Timm, PECOS Management Services, Inc (USA)
 Sponsor and Organizer: Ray Clark
 Paper Reviewer: Christopher Timm

8:35 The Challenge of Development of a Holistic Waste Management Approach to Support the Nuclear Power Renaissance - 9177
Hitoshi Makino, Hiroyuki Umeki, Kazumasa Hioki, JAEA (Japan); Ian G. McKinley, McKinley Consulting (Switzerland)

9:00 The Confusing World of Radiation Dosimetry - 9444
Michael Boyd, US EPA (USA)

9:25 The Importance of Enhancing Worldwide Industry Cooperation in Radiological Protection, Waste Management and Decommissioning - Views from the Global Nuclear Industry - 9452
Sylvain Saint-Pierre, World Nuclear Association (UK)

9:50 US Continuing Involvement with the Joint Convention - 9169
Edward Regnier, Leroy Stewart, Douglas Tonkay, US DOE; Daniel Schultheisz, US EPA; Giorgio Gnugnoli, US NRC (USA)

10:20 The US EPA's Public Health and Safety Standards for Yucca Mountain, Nevada (40 CFR Part 197) - 9072
Ray Clark, US EPA (USA)

10:45 Radiological Protection of the Environment, Including Non-Human Species - 9451
Sylvain Saint-Pierre, World Nuclear Association (UK)

11:10 Revision to US DOE Order 450.1 [1] and How it Affects US DOE Sites - 9003
Joseph Birchfield, Alliant Corporation (USA)

8:30 am – Session 62 Room 10:15 am 229B

Nuclear Power Plant Solid, Liquid and Wet Waste Management

Co-Chairs: Wolfgang Steinwarz, Siempelkamp Nuklear Technik GMBH; Olaf Oldiges, GNS mbH (Germany)
 Sponsor: Mark Lewis
 Organizer: Olaf Oldiges
 Paper Reviewer: Wolfgang Steinwarz

8:35 Shifting the Paradigm for Management of NRC Class B/C Waste - 9268
Edward Posivak, John LePere, WMG, Inc. (USA)

9:00 Nuclear Waste Management Treatment Facility and Spent Fuel Storage at the Ignalina Nuclear Power Plant - 9192
Burkhard Koening, Ronny Ziehm, José Fernández Puga, Johannes Rausch, NUKEM Technologies GmbH (Germany)

9:25 A New Effective Method for Flammable Radioactive Waste Treatment - 9157
Gagik Martoyan, Sahak Intsheyan, S. Tonikyan, S. Movsisyan, Scientific - Industrial CJSC AREV; Gagik Karamyan, AREVA CJSC (Armenia)

9:50 Modification of the Radioactive Wastewater Treatment Technology in the Hungarian PWR - 9091
György Patzay, László Weiser, Ivan Gresits, Budapest University of Technology and Economics; Ferenc Feil, Gábor Patek, János Schunk, NPP Paks (Hungary)

10:15 am – Session 63 Room 12:00 pm 229B

Panel: Progress in Radwaste Systems for New Nuclear Power Plants

Co-Chairs: Jay Maisler, Enercon Services, Inc; Sean Bushart, EPRI (USA)
 Sponsor, Organizer and Panel Reporter: Jay Maisler

This panel will focus on issues from reactor vendors and Architect/Engineers on radioactive waste challenges facing the licensing and operation of new nuclear plants in the United States.

The generations of new plants that will be built in the US incorporate many design improvements, including advancements in radioactive waste processing. Reactor vendors will discuss radioactive waste system aspects of designs certified by the US NRC. Architect/Engineers will address aspects of new radioactive waste system operations described in combined license (COL) applications.

8:30 am – 12:00 pm **Session 64** **Room 221C**

D & D of US DOE Facilities

Co-Chairs: Andrew Szilagyi, US DOE; Julia Tripp, Idaho National Laboratory (USA)

Sponsor: Andrew Szilagyi

Organizer and Paper Reviewer: Julia Tripp

8:35 Determining the Adequacy of Process Knowledge for Facilities to be Transitioned to Deactivation and Decommissioning (D&D) - 9002
Joe Santos, Savannah River Nuclear Solutions (USA)

9:00 Innovative Graded Approach to D&D Configuration Management - 9393
Charles Kronvall, R. Scott Spencer, Fluor Hanford; Frank Muller, CHPRC (USA)

9:25 Decontamination and Decommissioning of Radiologically Contaminated Facilities - 9118
Robert Storms, TDEC/DOE-O; Stuart Walker, US EPA (USA)

9:50 Independent Verification of Non-Destructive Assay Characterization Results at the East Tennessee Technology Park K-25 Building, Oak Ridge, Tennessee, and Lessons Learned for Future Uranium Enrichment Facility Demolition Activities - 9271
Sarah Roberts, Bill Riley, Tim Vitkus, Oak Ridge Associated Universities; James D. Kopotic, Karen Deacon, US DOE (USA)

10:20 Robotically Deployed Laser Imaging for Facility Dimensional Characterization - 9096
Robert Fogle, Deno Karapatakis, John Gladden, SRNL; Tony Long, Joe Santos, Savannah River Nuclear Solutions; Shirley Frush, US DOE EM (USA)

10:45 Demolishing a Cold-War-Era Fuel-Storage Basin Superstructure Laden with

Asbestos - 9475

Earl Lloyd, Mike Stevens, Fluor Government Group; Lloyd Zinsli, Craig Larson, Mary Ann Green, Fluor Hanford; Tom Orgill, EnergySolutions; Ellen Dagan, US DOE (USA)

11:10 Historical Artifact Collection at the East Tennessee Technology Park - 9196
Steve Goodpasture, Steven Wood, CDM (USA)

8:30 am – 12:00 pm **Session 65** **Room 221B**

Progress in Cleanup and Approaches to Expedite Remediation Decisions Using Modeling and Risk Evaluation

Co-Chairs: Donald Goebel, Safety & Ecology Corporation; Steven Houser, TN & Associates, Inc. (USA)

Sponsor and Paper Reviewer: Donald Goebel
Organizers: Angie Jones, Donald Goebel

8:35 Implementing New Approaches to Assess Health Risks: Age-Dependent Factors - 9351
John Peterson, Margaret MacDonell, ANL; Karen Keil, US ACE, Buffalo District (USA)

9:00 Site Closure Strategy Model for Creosote Site - 9125
Frederic Coll, URS Corporation - Washington Division (USA)

9:25 Enhancing a Groundwater Remedy for TCE with ISCO - 9046
Del Baird, CDM; Steven Thompson, CDM Federal Services (USA)

9:50 Life-Cycle Risk Analysis for US DOE Wastes in Shallow Land Burial - 9390
Kevin Brown, David Kosson, Charles Powers, CRESPI / Vanderbilt University; James Clarke, Frank Parker, Vanderbilt University (USA)

10:20 Remediation Approach for the Integrated Facility Disposition Project at the Oak Ridge National Laboratory - 9069
George Stephens, Paula Kirk, ORNL (USA)

10:45 The Remediation of Hanford's Last LLW Burial Grounds in the 300 Area: 618-7 and 618-1 - 9487
Matthew J. Haass, Washington Closure Hanford (USA)

11:10 Status of the Environmental Cleanup of the Idaho National Laboratory - 9037
Allen Schubert, CH2M-WG Idaho, LLC (USA)

8:30 am – Session 66 Room 221A
12:00 pm

US DOE, Site Specific and Citizens Advisory Board (CABs) - Public Involvement Makes a Difference

Co-Chairs: Melissa Nielson, US DOE; Virginia Dickert, WSRC (USA)
 Sponsor: Lance Mezga
 Organizers: Melissa Nielson, W.T. (Sonny) Goldston
 Paper Reviewer: W.T. (Sonny) Goldston

8:35 US DOE's Environmental Management Site-Specific Advisory Board – 15 years of Community Involvement - 9315
Melissa Nielson, Catherine Brennan, US DOE (USA)

9:00 The US DOE Environmental Management Oak Ridge Site Specific Advisory Board: A Review of the ORSSAB's Impact on Clean Up Decisions on the Oak Ridge Reservation - 9395
Lance Mezga, ORNL; David Adler, US DOE (USA)

9:25 Strategies for Public Involvement at the West Valley Demonstration Project - 9242
Thomas Attridge, New York State Energy Research and Development Authority; Bryan Bower, US DOE; John Chamberlain, Sonja Allen, West Valley Environmental Services LLC (USA)

9:50 Rural Communities and US DOE Environmental Management Programs at the Nevada Test Site: Do Outreach Efforts Matter? - 9048
Helen Neill, Jennifer Ward, University of Nevada, Las Vegas; Kelly Snyder, US DOE, Nevada (USA)

10:20 Envisioning Communications with Future Stakeholders - A Case Study Using the In-Situ Decommissioning of P-Reactor - 9285
Donna Antonucci, Savannah River Site-CAB (USA)

10:45 Facilitating Site-Specific and Citizens Advisory Boards: Running Effective

Meetings that Involve Complex Technical Issues - 9353
Jenny Freeman, Strata-G, LLC (USA)

11:10 Stakeholder Participation in the Environmental Cleanup of Radioactive Wastes in the UK, Japan and United States - 9024
Christian Poppeliers, Augusta State University, Dept of Physics (USA); John Whitton, Nexia Solutions (UK); Bill Lawless, Paine College (USA); Mito Akiyoshi, Senshu University (Japan)

8:30 am – Poster Session 67 Room 2nd Floor
12:30 pm

Posters: Crosscutting – A
Packaging & Transportation – B-C
D & D – D-F

Topic A: Crosscutting Policies, Programs and Technologies

Co-Chairs: Charles Waggoner, Institute for Clean Energy Technology (USA); Chris Chadwick, Microfiltrex (UK)
 Sponsor: John Mathieson
 Organizers: Chris Chadwick, Duane Adamson
 Paper Reviewer: Charles Waggoner

A.1 Functionalizing and Activating Permeable Polymeric Materials to Provide Species Removal and Detection - 9252
Claire Jarmey-Swan, Chris Chadwick, Microfiltrex (UK)

A.2 Remediating Contaminated Sediments in the Ashtabula Harbor as Part of the Ashtabula River Area of Concern: A Collaboration Success Story - 9521
Isaac Diggs, Sr., EnergySolutions, LLC; Jeffrey Case, TerranearPMC, LLC; Robert Rule, de maximis, Inc.; Matthew Snyder, Steven Vriesen, US ACE Buffalo District (USA)

Topic B: Technical and Analytical Aspects of Radioactive Materials Packaging

Co-Chairs: Richard Yoshimura, Sandia National Laboratory; Larry Harmon, Project Enhancement Corporation (USA)
 Sponsor and Organizer: Paul Jones
 Paper Reviewer: Richard Yoshimura

B.1 Amendment Process for the Mixed Oxide Fresh Fuel Package - 9388
Frederick Yapuncich, AREVA; Richard Clark, Shaw AREVA MOX Services; Rick Migliore, AREVA Federal Services LLC (USA)

B.2 Development of a Model for Predicting Transient Hydrogen Venting in 55-Gallon Drums - 9416
Michael Garcia, Jason W. Apperson, James S. Clemmons, Michael J. Romero, John C. Sur, Duan Z. Zhang, LANL (USA)

B.3 A Need for a New Joining Technology for the Closure Welding of Radioactive Materials Containers - 9516
Gary Cannell, Fluor Enterprises, Inc.; Glenn Grant, PNNL; Burt Hill, US DOE (USA)

B.4 5000th Mosaik - Cask Delivered in 2007 - a Story of Success - 9419
Olaf Oldiges, Hans-Jürgen Blenski, GNS mbH (Germany)

Topic C: Operational Topics in Radioactive Materials Transportation

Co-Chairs: Richard Yoshimura, SNL; Larry Harmon, Project Enhancement Corporation (USA)
 Sponsor and Organizer: Paul Jones
 Paper Reviewer: Larry Harmon

C.1 Intermodal Transportation of Commercial Spent Nuclear Fuel (SNF) - 9328
Stephen Schmid, Bechtel-SAIC Company, LLC; Ralph Best, JAI Corporation; Alexander Thrower, US DOE (USA)

C.2 Waste Information Management System with Integrated Transportation Forecast Data - 9097
Walter Quintero, Leonel Lagos, Peggy Shoffner, Himanshu Upadhyay, Florida Intl University / Applied Research Center (USA)

Topic D: D & D Characterization

Co-Chairs: Rick Demmer, INL; Jas Devgun, Sargent & Lundy, LLC (USA)
 Sponsor: Jas Devgun
 Organizer: Julia Tripp
 Paper Reviewer: Rick Demmer

D.1 Characterization of Contaminated Stacks at Nuclear Facilities – 9355

William Mendez, (DOE Fellow), Florida Int. University / Applied Research Center; Leonel Lagos Florida Int. University / Applied Research Center (USA)

D.2 Previous Rehabilitation Program of Radioactive Objects of Kirovo-Chepetsky Chemical Plant - 9430
Iliya Kim, Maxim Gizay, Center for Control of Federal Property; Anatoly Volkovich, Alexander Chesnokov, Russian Research Center; Sergey Smirnov, Victor Volkov, Yury Zverkov, Anatoly Shisha, Sergey Semenov, Russian Research Center Kurchatov Institute (Russia)

D.3 Preparation and Characterization of Core-shell Polymer Type Polymer Emulsion for a Measurement of the Radioactive Contamination - 9292
Ho-Sang Hwang, Bum-Kyoung Seo, Dong-Gyu Lee, Kune-Woo Lee, KAERI (Korea)

D.4 The Cold & Dark Process at the Savannah River Site - 9509
Brian K. Lewis, Michael L. Willis, John Gilmour, Savannah River Nuclear Solutions (USA)

Topic E: D & D Planning and Tools

Co-Chairs: J. Rick Dearholt, CDM (USA); Michiya Sasaki, Central Research Institute of Electric Power Industry (Japan)
 Sponsor: Detlef Schmidt
 Organizer: Julia Tripp
 Paper Reviewer: Andrew Szilagyi

E.1 Inventories of Nuclear Facility: Methodological Aspects - 9313
Cyril Moitrier, Vincent Vanel, CEA (France)

E.2 A Quantitative Risk Assessment Approach to Hazards for a Decommissioning Safety of Nuclear Facilities - 9293
Kwan Seong Jeong, Kune-Woo Lee, Dong-Gyu Lee, KAERI; HyeonKyo Lim, Chungbuk National University (Korea)

E.3 Decision Support Tool for Prioritization of Surveillance and Maintenance Investment - 9342
Leydi Velez, (DOE Fellow), Florida Int. University / Applied Research Center; Thomas Conley, UT-Battelle LLC/ ORNL (USA)

E.4 Decontamination and Decommissioning at Small Nuclear Facilities: Facilitating the Submission of Decommissioning Funding Plans - 9420

Doris Minor, Attenuation Environmental Company; Anine Grumbles, Washington State Department of Health (USA)

E.5 Implementation of 10 CFR 20.1406 through Life Cycle Planning for Decommissioning - 9324

Bill Ott, Edward O'Donnell, US NRC (USA)

E.6 D&D Knowledge Management Tool - 9098

Walter Quintero, Peggy Shoffner, Leonel Lagos, Himanshu Upadhyay, Florida Intl University / Applied Research Center; Larry Waggoner, Fluor Hanford; John De Gregory, US DOE-HQ (USA)

E.7 Decommissioning Cost Estimation of Nuclear Research Facilities Application to French Atomic Energy Commission (CEA) - 9081

Cyril Moitrier, Vincent Vanel, CEA; Jean-Guy Nokhamzon, CEA/SACLAY (France)

Topic F: D & D Facilities/Waste

Co-Chairs: J. Rick Dearholt, CDM (USA); Jas Devgun, Sargent & Lundy, LLC (USA)
 Sponsor: Detlef Schmidt
 Organizer: Julia Tripp
 Paper Reviewer: J. Rick Dearholt

F.1 Preparing the MR Reactor for Decommissioning in the Russian Research Center "Kurchatov Institute" - 9074

Victor Volkov, Yury Zverkov, Sergey Semenov, Anatoly Shisha, Russian Research Center Kurchatov Institute; Vyacheslav Kolyadin, Alexey Lemus, Vitaly Pavlenko, Sergey Fadin, RRC (Russia)

F.2 Decommissioning of a Research & Development Tritium Facility - 9274

Kevan Ticehurst, AWE PLC (UK)

F.3 A New Backfill Material for Re-Packaging Corroded Waste Drums - 9366

Heidi Sjoelin Thomsen, Anne Soerensen, Dansk Dekommissionering (Denmark)

F.4. Safe and Inexpensive - Complete Conditioning of Activated Reactor Graphite - 9308

Hans-Frieder Beer, Paul Scherrer Institute (Switzerland)

F.5 Phenix Reactor Dismantling Flowsheet - 9309

Laure Bénévise, Christophe Beretti, CEA (France)

F.6 Remediation Activity of SUE SIA Radon: Site Characterization, Preparation of Decontamination Plan, Decontamination and On-Site Waste Management - 9156

Sergey Mikheykin, A.S. Barinov, SUE SIA Radon (Russia)

F.7 Closing the Loop on the Manhattan Project - 9146

Mark Orren, Natalie Callahan, Ian Harman, Attention IT, Inc. (USA)

MARCH 4, 2009

WEDNESDAY PM

**1:30 pm –
5:00 pm**

Session 68A

**Room
229A**

Closing Panel: The International Decommissioning Network of the IAEA

Co-Chairs: Paul Dinner, IAEA (Austria); Albert Freitag, Burns & Roe (USA)

Sponsor, Organizer and Panel Reporter: Michele Laraia

This is the closing panel on the IAEA International Decommissioning Network (IDN) sessions at WM2009. The successful launch at the IAEA General Conference in September 2007 of the IDN marked a quantum leap in IAEA's traditional approach to international cooperation in nuclear decommissioning. The IDN was established to promote the vision of prompt, open, and efficient worldwide sharing of practical and effective decommissioning experience leading to safe, economic and timely dismantlement of disused nuclear facilities. The purpose of the panel, re-enforced by the final summary (Wrap-Up) remarks by the chair would be to "close the circle" with the organizational Panel Session.

Panelists: Abrie Visagie, Senior Manager, Necsca (South Africa); **Jean-Jacques Grenouillet**, Decommissioning Project Manager, EDF (France); **Vladan Ljubenov**, Acting Director of the Centre for Nuclear Technologies and Research, Vinca Institute of Nuclear Sciences (Serbia); **Andrew Szilagyi**, D&D Program Leader, US DOE (USA); **Grete Rindhal**, Institute for Energy Technology; and **Wayne Norton**, President & CEO, Connecticut Yankee (USA)

1:35 General Benefits Associated with the Wider Cooperation in Decommissioning - 9367

Abrie Visagie, Necsa (South Africa)

1:30 pm – Session 68B Room 224B
5:00 pm

Panel: US DOE Oak Ridge Cleanup Plans and Contracting Opportunities: IFDP and ETPP

Co-Chairs: Erich Evered, ETEBA President; Gerald Boyd, US DOE, Oak Ridge Office (USA)
Sponsor and Organizer: Erich Evered
Panel Reporter: Cathy Hickey

This panel will focus on the Integrated Facilities Disposition Program (IFDP) of the US DOE. It is a US \$9 to 15 billion plan to eliminate contaminated legacy facilities and complete environmental remediation at two major operating sites in Oak Ridge, Tennessee – the Y-12 National Security Complex and the central campus of Oak Ridge National Laboratory.

Work under the IFDP is slated to begin in 2010-11 and continue to approximately 2039. In addition, much cleanup work will remain at a third Oak Ridge site – East Tennessee Technology Park (ETTP), formerly known as the K-25 Gaseous Diffusion Plant – when demolition of the K-25 building is completed in 2011. US DOE panelists in this session will describe the IFDP and provide timely updates on DOE's plans for implementing its objectives. They will also provide information on upcoming contract opportunities under the IFDP and the remaining program at ETPP.

Panelists from Y-12 and ORNL will provide details of IFDP facilities and challenges at the respective sites. The final panelist will present information on a developing partnership between the Oak Ridge and United Kingdom nuclear and environmental business communities.

Panelists: **Gerald Boyd**, Manager, US DOE, Oak Ridge Office; **J.T. Howell**, Federal Project Director - IFDP, US DOE Oak Ridge Office; **John Krueger**, Sr. Director – Waste Operations and IFDP, B&W Y-12; **Lee McGetrick**, IFDP Manager, ORNL; and **Angie Jones**, Vice President, AMEC (USA)

1:30 pm – Session 69 Room 224A
5:00 pm

Worldwide Technical Innovations in HLW Treatment - Technology Demonstration

Co-Chairs: Bill Wilmarth, SRNL; Tom Brouns, Battelle PNNL (USA)
Sponsor: Christophe Girold
Organizers: Terri Fellingner, Keith Miller
Paper Reviewer: Terri Fellingner

1:35 Demonstration of the Cold Crucible Induction Melter Technology under the US DOE EM Advanced Remediation Technologies (ART) Program - 9237

Eric Tchemitcheff, Joseph Buchanan, AREVA Federal Services LLC; Kurt Gerdes, US DOE; Sharon Marra, WSRC; Jay Roach, INL (USA); Christophe Girold, CEA; Laurent David, SGN; Catherine Veyer, Consultant (France)

2:00 Vitrification of Savannah River Site HLW Sludge Simulants at CEA Marcoule's Industrial-scale Cold Crucible Induction Melter Demonstration Platform - 9186

Milene Delaunay, Alain Ledoux, Jean-Luc Dussossoy, Patrice Boussier, J. Lacombe, Christophe Girold, CEA; Catherine Veyer, Consultant (France); Eric Tchemitcheff, AREVA Federal Services LLC (USA)

2:25 Testing and Startup of the Savannah River Site Integrated Salt Disposition Process - 9193

Michael Poirier, Thomas P. Peters, Fernando Fondeur, Charles Nash, Steven Brown, SRNL; Earl Brass, WSRC; Samuel Fink, Savannah River Nuclear Solutions (USA)

2:50 Salt Processing through Ion Exchange at the Savannah River Site - Selection of Exchange Media and Column Configuration - 9198

Renee Spires, Timothy Punch, WSRC; Daniel McCabe, SRNL; Paul Taylor, ORNL (USA)

3:20 Fluidized Bed Steam Reforming (FBSR) Technology: High Level Waste (HLW) Organic and Nitrate Destruction Prior to Vitrification - 9406

Carol Jantzen, Michael Williams, Gene Daniel, Paul Burket, Charles Crawford, SRNL (USA)

3:45 Alternate Methods for Eluting Cesium From Spherical Resorcinol-Formaldehyde Resin - 9160

Paul Taylor, ORNL; Lauren Johnson, University of Tennessee (USA)

4:10 SOGIN Enriched Uranium Extraction (EUREX) Plant Spent Fuel Pool Cleaning and Decontamination Utilizing the Smart "Safe" Solution - 9317

Kent Forrester, Mark Denton, Kurion, Inc. (USA); Werner Botzem, Nukem Technologies GmbH (Germany); Michele Gili, Sogin (Italy)

1:30 pm –	Session 70	Room
5:00 pm		223

Underground Research Laboratories and Demonstration Facilities: An Update

Co-Chairs: Louis Londe, ANDRA (France); Frank Hansen, SNL (USA)

Sponsor and Organizer: Chuan-Fu Wu

Organizers: Gérald Ouzounian, Louis Londe

1:35 The Design of Disposal Areas for High-Level Long-Lived Waste for the Andra Project: A Strong Challenge Requiring Demonstrations - 9018

Jean-Michel Bosgiraud, Louis Londe, Daniel Delort, Olivier Glenet, ANDRA (France)

2:00 Development of Shotclay System to Construct High-Quality Buffer Materials - 9057

Makoto Nakajima, Kajima Corporation (Japan)

2:25 Underground Collocation of Nuclear Power Reactors and Repository to Facilitate the Post-Renaissance Expansion of Nuclear Power - 9113

Wes Myers, Ned Elkins, Los Alamos National Laboratory (USA)

2:50 Development of Next-Generation Technology of Integrated Site Characterization of Deep Geological Repositories - 9132

Hideaki Osawa, Hiroyuki Umeki, Kunio Ota, Katsuhiko Hama, Atsushi Sawada, Shinji Takeuchi, Takeshi Semba, JAEA; Hiroyasu Takase, Quintessa Japan (Japan); Ian G. McKinley, McKinley Consulting (Switzerland)

3:20 The Geological Disposal Concepts for the High Level Radioactive Wastes from Spent Fuel Recycling Process in Korea - 9297

Jong-Youl Lee, Dong Keun Cho, Min Soo

Lee, Heu-Joo Choi, Jong Won Choi, Jeong Hoon Cha, Korea Atomic Energy Research Institute (Korea)

3:45 Disposal Project for Low-Level Long-Lived Radioactive Waste - 9089

Gérald Ouzounian, Odile Ozanam, ANDRA (France)

4:10 Reversibility and Retrievability, a Proposal for An International Scale - 9506

Gérald Ouzounian, Jean-Michel Hoorelbeke, Jean-Noel Dumont, ANDRA (France)

4:35 Interregional Training Course on Radioactive Waste Disposal Technologies - 9536

Andrew Orrell, Frank Hansen, SNL; Abe Van Luik, US DOE (USA)

1:30 pm –	Session 71	Room
5:00 pm		222C

US Formerly Utilized Sites Remedial Action Program (FUSRAP) and other US Army Corp of Engineers Projects

Co-Chairs: Allen Roos, US ACE; Steven Brown, SHB, Inc. (USA)

Sponsor and Paper Reviewer: Allen Roos

Organizers: Allen Roos, Steven Brown

1:35 Radionuclide Data Quality Evaluation Guidance - 9284

Brian Tucker, The Shaw Group (USA); David Evans, US Army Corps of Engineers (USA); Michael Winters, Shaw Environmental & Infrastructure Group (USA)

2:00 Determination of Preliminary Remediation Goals at an Industrial FUSRAP Site - 9164

Joseph Weismann, MD Rahman, Cabrera Services, Inc.; George Bock, District of Philadelphia, US ACE; Brian Hearty, US ACE; Eric Barbour, US ACE - Baltimore; Karen Keil, US ACE-Buffalo District (USA)

2:25 Use of and Lessons Learned in Using a Surrogate Radionuclide Approach in the Remediation of Radiologically Impacted Soil and Sediments at the Middlesex Sampling Plant Site - 9286

David Hays, Jough Donakowski, James Moore, US ACE (USA)

2:50 Evaluation of Uranium Enrichment/ Depletion and Recycled Uranium Residuals in Soils and Groundwater at the Harshaw FUSRAP Site - 9336

Kurt Picel, Robert Johnson, John Peterson, ANL (USA); Karen Keil, US ACE, Buffalo District (USA); Andrea Kolhoff, Harold Spector, US ACE (USA); Jeffrey DeVaughn, SAIC (USA)

3:20 Quantifying Uncertainty in Contaminated Soil Volume Estimates - 9320

Allen Roos, David Hays, US ACE; Robert Johnson, Lisa Durham, ANL; Michael Winters, Shaw Environmental & Infrastructure Group (USA)

3:45 Real-Time Techniques for Beryllium Analysis in Soils - 9372

Robert Johnson, Lisa Durham, ANL; Jacob Zdrojewski, David Frothingham, US ACE; Peter Lorey, US ACE - Buffalo District (USA)

4:10 Alternative Sample Preparation of Soils Containing Thorium at an Environmental Protection Agency Superfund Site - 9380

David Hays, John Beckman, US ACE (USA)

4:35 Analysis of Spatial Correlations of Metals at the Former Harshaw Chemical Company FUSRAP Site - 9341

William Frederick, US ACE; Robert Johnson, Kurt Picel, ANL (USA)

**1:30 pm – Session 72 Room
5:00 pm 222B**

Innovative Field Monitoring for Environmental Remediation

Co-Chairs: Donna Guillen, Idaho National Laboratory; Albert Kruger, US DOE (USA)
Sponsor and Organizer: David Eaton
Paper Reviewer: Donna Guillen

1:35 Airborne Radiological Characterization Surveys in Inaccessible Areas Due to the Presence of Munitions and Explosives of Concern (MEC) - 9358

Greg Miller, Shawn Googins, Dave Watters, Joseph Weismann, Cabrera Services, Inc.; Gregory Komp, HQ Department of the Army; Mike Styvaert, US Army, JMC (USA)

2:00 An Advanced Radiological Survey and Mapping System - 9359

Jay McCown, Charles Waggoner, Institute for Clean Energy Technology; Donna Rogers, Mississippi State University ICET (USA)

2:25 High-Volume Surface Water Monitoring for Characterization of Low PCB Levels - 9131

Del Baird, Wendy Stewart, CDM (USA)

2:50 Effective Detection of Buried Radioactive Waste - 9295

Qian Du, Nicolas Younan, Mississippi State University (USA); Charles Waggoner, Institute for Clean Energy Technology (USA); Donna Rogers, Mississippi State University (USA)

3:20 Field Application Results of an Innovative, Low-Tech Instrument for Field Screening of Radioactivity in Soil Samples - 9197

Roger Vinson, Restoration Services, Inc.; Kenneth Skinner, Mid-Atlantic Technology, Research and Innovation Center; Peter Salpas, Salpas Consulting (USA)

3:45 Analysis of Nitroaromatic and Nitramine Explosives by Atmospheric Pressure Chemical Ionization / High Performance Liquid Chromatography / Mass Spectrometry / Mass Spectrometry - 9025

Benjamin Hicks, Wenjun Han, Test America St. Louis (USA); James Robben, Washington University School of Medicine (USA)

4:10 Assessing Contaminant Migration and Risk through Passive Interstitial Water Samplers - 9347

Danny Reible, University of Texas; Margaret MacDonell, ANL (USA)

4:35 Development of Fluorescence Spectral Imaging for Location of Uranium Deposited on Surfaces - 9163

David Monts, Guangjun Wang, Yi Su, Ping-Rey Jang, Mississippi State University; Charles Waggoner, Institute for Clean Energy Technology (USA)

**1:30 pm – Session 73 Room
3:15 pm 222A**

Waste Certification, Acceptance and Disposal

Co-Chairs: Linda Beach, Waste Control Specialists LLC (USA); Heinz Kroeger, TuV Nord EnSys Hannover (Germany)
Sponsor: Heinz Kroeger
Organizers: Kenneth Guay, Heinz Kroeger
Paper Reviewer: Linda Beach

1:35 Overview of Nevada Test Site Radioactive and Mixed Waste Disposal Operations - 9117

Jhon Carilli, US DOE; Susan Krenzien, Navarro Research & Engineering, Inc; Gregg Geisinger, Sydney Gordon, National Security Technologies, LLC; Barbara Quinn, SNJV-C/O US DOE (USA)

2:00 The UK Process for Assessment of Waste Conditioning Proposals - 9500
Stephen Barlow, UK NDA; Simon Wisbey, UK Nirex Ltd. (UK)

2:25 Very Low Activity Waste Disposal Facility Recently Commissioned as an Extension of El Cabril LILW Disposal Facility in Spain - 9014
Pablo Zuloaga, Mariano Navarro, ENRESA (Spain)

2:50 The Very Strict Waste Acceptance Criteria of the Saligny LILW Repository in Romania Drastically Limits the Technology Selection for the Waste Treatment and Conditioning Facility - 9200
Gheorghe Barariu, National Authority for Nuclear Activity, Subsidiary of Technology and Engineering for Nuclear Projects (Romania)

1:30 pm – 3:15 pm	Session 74	Room 221C
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Performance Assessment of Geological Disposal Systems

Co-Chairs: Tjalle Vandergraaf, Providence College (Canada); Ming Zhang, Geological Survey of Japan, AIST (Japan)
 Sponsor and Paper Reviewer: Ming Zhang
 Organizers: Tjalle Vandergraaf, Andrew Martin

1:35 Experimental Studies on Retardation Properties of Granite Specimens from Grimsel Test Site, Switzerland - 9368
Ming Zhang, Geological Survey of Japan, AIST (Japan)

2:00 THEREDA - The Thermodynamic Reference Database for Nuclear Waste Disposal in Germany - 9187
Helge Moog, Sven Hagemann, Horst-Jürgen Herbert, Thomas Willms, Gesellschaft für Anlagen - und Reaktorsicherheit; Marcus Altmaier, Institut für Nukleare Entsorgung; Vinzenz Brendler, FZ Dresden-Rossendorf e. V.; Sven Gester, Forschungszentrum Dresden-Rossendorf; Christian Marquardt, Volker Neck, Karlsruhe Research Center, Institut für Nukleare Entsorgung; Anke Richter, Forschungszentrum Dresden-Rossendorf, Institute of Radiochemistry; Wolfgang Voigt, TU Bergakademie Freiberg; Georgia Wollmann, TU Bergakademie Freiberg (Germany); Stefan Wilhelm, AF-Colenco Ltd. (Switzerland)

2:25 Short and Long Term Behavior of Bentonite under the Boundary Conditions of a Repository for High Level Radioactive Wastes - 9151

Horst-Jürgen Herbert, Gesellschaft für Anlagen-und Reaktorsicherheit; Jörn Kasbohm, University of Greifswald (Germany)

2:50 Laboratory Characterization of Chemo-Osmotic, Hydraulic and Diffusion Properties of Rocks: Apparatus Development - 9134
Mikio Takeda, Tsuyoshi Hiratsuka, Kazumasa Ito, National Institute of Advanced Industrial Science and Technology (AIST) (Japan)

3:15 pm – 5:00 pm	Session 75	Room 221C
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Project Management Improvements - Planning through Completion - Scope, Cost, Schedule Control

Co-Chairs: Christopher Timm, PECOS Management Services, Inc; Sherry Keeney, PECOS Management Services, Inc. (USA)
 Sponsor: Christopher Timm
 Organizers: Sherry Keeney, Peter Offringa
 Paper Reviewer: Peter Offringa

3:20 Technical Risk Rating of US DOE Environmental Management Projects - 9153
Steven Schneider, US DOE; Ronald R. Fayfich, Michael Cercy, Savannah River Nuclear Solutions (USA)

3:45 Implementing Performance Trending at Two US DOE Sites - 9330
Steve Prevette, Fluor Hanford; Anthony Umek, Fluor Government Group; Chuck Hayes, Savannah River Nuclear Solutions (USA)

4:10 Multi-Site Project Management: A Program for Reducing the Cost of Technology Deployment at US DOE Sites - 9480
Neil Davis, Edward Selden, David Little, Mary Coleman, John Bennett, WSRC (USA)

4:35 Providing an Integrated Waste Management Strategy and Operation Focused on Project End States at the Hanford Site - 9102
Ty Blackford, CH2M HILL Plateau Remediation Company (USA)

1:30 pm – Session 76 Room
5:00 pm 221B

Technical Communication: Critical to Nuclear Renaissance

Co-Chairs: Elizabeth Bowers, US DOE; Jeannette Hyatt, Savannah River Nuclear Solutions (USA)
Sponsor and Paper Reviewer: Elizabeth Bowers
Organizers: W.T. (Sonny) Goldston
Paper Reviewer: Elizabeth Bowers

1:35 What's Inside the Black Box? - Explaining Performance Assessment to Stakeholders - 9173

Roger Seitz, Elmer Wilhite, SRNL; Martin Letourneau, US DOE (USA)

2:00 The Importance of Strategic Planning and Critical Decision Making in the Initial Stages of the Plateau Remediation New Contract Start-Up - 9104

Moses Jaraysi, Amy Lientz, CH2M HILL Plateau Remediation Company (USA)

2:25 Public Acceptance of Low-Level Waste Disposal Critical to the Nuclear Renaissance - 9009

W.T. (Sonny) Goldston, Savannah River Nuclear Solutions (USA)

2:50 Establishing Final End State for a Retired Nuclear Weapons Production Reactor: A Collaboration Between Stakeholders, Regulators, and the Federal Government - 9141

Mary Flora, Area Completion Projects, SRS; Helen Belencan US DOE-Savannah River; Christopher Bergren, Savannah River Nuclear Solutions (USA)

3:20 Regulatory Support of Treatment of the Savannah River Site PUREX Waste - 9369

Luke Reid, Savannah River Nuclear Solutions (USA)

3:45 Improving the Accuracy of News Coverage of Nuclear Power, Waste and Management Issues - 9258

Michael Greenberg, Karen Lowrie, Rutgers University - CRESP (USA)

4:10 Core Team Recommendation Leads to Identification of Recommended Preferred Alternative for Project Completion at the West Valley Demonstration Project - 9262

Maira Maloney, US DOE; John Chamberlain, Laurene Rowell, West Valley Nuclear Services Co. (USA)

1:30 pm – Session 77 Room
5:00 pm 221A

Meeting the Challenges of Safe, Secure and Economical Radioactive Materials Transportation

Co-Chairs: Ken Niles, Oregon Department of Energy; Lisa Janairo, The Council of State Governments, Midwestern Office (USA)
Sponsor: Robin Sweeney
Organizer: Richard Yoshimura
Paper Reviewer: Larry Harmon

1:35 Radioactive Waste Transport: Managing Risk Perception and Communication - 9228

Christopher Murray, University of Oklahoma (USA)

2:00 AREVA Logistics Business Unit Transportation Risk Management Initiative - 9523

Catherine Anne, AREVA NC - Transnuclear Inc (USA); Laurent Blachet, TN International (France)

2:25 Section 180(c) of the Nuclear Waste Policy Act: Policy Implementation With State And Tribal Involvement - 9386

Elizabeth Helvey, JK Research Associates, Inc.; Lee Finewood, Frank Moussa, Julie Offner, US DOE (USA)

2:50 State Shipment Fees as a Supplement to Federal Financial Assistance under Section 180(c) of the Nuclear Waste Policy Act - 9398

Lisa Janairo, The Council of State Governments, Midwestern Office (USA)

3:20 The WIPP Transportation Program at Ten Years, Making the Case for Above-Regulatory Procedures - 9396

Ken Niles, Oregon Department of Energy; Rick Moore, Pronghorn Engineering (USA)

3:45 Continuity Planning: Ensuring Knowledge Transfer and Consistency During Workforce/Stakeholder Transition - 9323

Julie Offner, US DOE; Lisa Janairo, The Council of State Governments, Midwestern Office; John Smegal, Legin Group, Inc. (USA)

1:30 pm – 5:00 pm **Poster Session 78** **Room 2nd Floor**

Topic A: WMS Non-Paper Poster Session for Emerging Issues and Late Abstracts

Co-Chairs: Gary Benda, Studsvik, Inc.; Linda Lehman, CH2M HILL Plateau Remediation Company (USA)

Sponsor and Organizer: Gary Benda

A.1 Cost Savings in Applying Optimum Packaging Knowledge and the Bulk Survey for Release (BSFR) Disposal Alternative for Honeywell's Metropolis, IL Uranium Conversion Facility - 9524

Mark Bagwell, Honeywell; Daniel Jordan, Enercon (USA)

A.2 Safe and Compliant Approach to Decontamination and Decommissioning of the Plutonium Finishing Plant at the Hanford Site - 9403

Steve Dahlgren, CH2M HILL Plateau Remediation Company (USA)

A.3 Groundwater Modeling to Reduce Technical Risk During Decontamination and Decommissioning Activities at the Oak Ridge National Laboratory - 9083

David Watson, Paula Kirk, Oak Ridge National Laboratory; Marcella Mueller, University of Tennessee (USA)

A.4 Groundwater Modeling in the Karst Environment of East Tennessee Technology Park (ETTP) - 9062

Alauddin Khan, Allen Motley, Science Applications International Corporation (USA); Richard Ketelle, Bechtel Jacobs Company, LLC (USA)

A.5 Overview of the Conference of Radiation Control Program Directors, Inc. (CRCPD) Unwanted Radioactive Materials Program and the New Source Collection and Threat Reduction Program (SCATR) - 9170

Joseph Klinger, Illinois Emergency Management Agency (USA)

A.6 Potential for Post-Closure Radionuclide Redistribution Due to Biotic Intrusion: Aboveground Biomass, Litter Production Rates, and the Distribution of Root Mass with Depth at Material Disposal Area G, Los Alamos National Laboratory - 9210

Candace Christensen, Terry Jennings, Christopher Jaros, David Wykoff, North Wind, Inc.; Sean French, Los Alamos National Laboratory; Rob Shuman, URS Corporation (USA)

A.7 Application of Membrane Technology to Minimize Liquid Waste from Reprocessing Plant - 9130

Yasutomi Morimoto, Yasuhiro Suzuki, Mamoru Numata, Takashi Kato, JGC Corporation (Japan); Sai Bhavaraju, Shekar Balagopal, Ceramatec Inc. (USA)

A.8 Radiological Source Tracking and Monitoring (RadSTraM) Phase III - 9239

Deborah Kopsick, US EPA (USA); Randy Walker, UT-Battelle/ORNL (USA)

A.9 Hot Cell Laser Ablation-ICP-AES Method for Monitoring Vitrification of Hanford Radioactive Waste - 9533

Aruna Arakali, URS-Washington Division (USA)

A.10 Developing a Web-Based Inventory Database For Greater-than-Class C Low Level Radioactive Waste - 9314

Mary Picel, Bruce Biwer, John Peterson, Tim Klett, ANL; George Dixon, Christine Gelles, US DOE (USA)

A.11 Spectroscopic Methods for Characterization of Irradiated and Spent Fuel of Research Nuclear Reactors. - 9528

Victor Potapov, Anatoly Volkovich, Yury Simirsky, Oleg Ivanov, Russian Research Center Kurchatov Institute (Russia)

A.12 CEA's Contaminated Lead Recycling Routes - 9532

Frederic Hornung, Marc Butez, French Atomic Energy Commission (France)

A.13 Concept to Manage and Evaluate Measured Data of Nuclear Facilities Especially Useful in the Dismantling Process - 9535

Swen Henning, Safetec Entsorgungs- und Sicherheitstechnik GmbH (Germany)

A.14 Management of Toxic and Dangerous Waste Produced in the Dismantlement of Russian Submarines - 9544

Tatiana Makarchuk, JSC "Terna SB" (Russia); Robert Dyer, Eleonora Barnes, US EPA (USA)

MARCH 5, 2009**THURSDAY AM**

8:30 am – 12:00 pm	Session 79	Room 224A
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Panel: Federal Government Contract "Capture" Workshop

Instructor: Vik Mani, Mani Strategic Solutions, LLC (USA)

Sponsor and Organizer: Vik Mani

This workshop will focus on the targeting, planning, pursuing and winning a contract, generally known as the "Capture" effort. Companies and the government alike spend millions of dollars on Capture efforts. Companies rise or fall by the contracts won or lost. Pursuing contracts without success can cripple a companies' growth. Needless to say good contracts and contractors lead to good work and economic benefits.

Over the years, the WM Symposia conference has become the hotbed of activities of targeting, partnering, pursuing, recruiting, planning and strategizing to capture federal government prime contracts and subcontracts. Many teaming courtships between companies start at the WM Symposia and blossom into long-term relationships. The knowledge gained and the intelligence gathered at the WM Symposia have helped create billions of dollars in backlog to private companies, and led to very successful long-term contractors for the government and corporations alike.

This session will provide professionals with a better understanding of the tactical and strategic management processes involved in the overall effort of "Capture". WM2009 Exhibitors are encouraged to attend this session (A Technical Session badge is not required).

Panelists: **John Bradburne**, Principal, Bradburne Consulting, LLC; **Dennis Ferrigno**, Management Consultant, CAF & Associates, LLC; **Keith Klein**, Longenecker & Associates, Inc.; **John Longenecker**, President, Longenecker & Associates; **Paul Miskimin**, Managing Director, Winning Ways International; **Robert Warther**, Vice President and Project Manager, Parsons; and **Antonio Franco**, Attorney and Partner, PilieroMazza PLLC (USA)

8:30 am – 5:00 pm	Session 80	Room 222C
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Roundtable: Waste Management (WM) Energy Facilities Contractor Operating Group (EFCOG)

Co-Chairs: W.T. (Sonny) Goldston, Savannah River Nuclear Solutions; William Morrison, EnergySolutions (USA)

Sponsor: W.T. (Sonny) Goldston

Organizer and Roundtable Reporter: Nancy Rothermich

The EFCOG will meet to discuss a variety of issues of importance to US DOE waste management operations. The purpose of the WM EFCOG roundtable is to seek out and promote the best management and operating practices, cost effective technologies and disposal options for all waste streams generated at US DOE facilities whether destined for US DOE or commercial facilities. The WM Task Group will focus on complex-wide integration and technology transfer while supporting cost effective and efficient waste options. This will be achieved in a way that enhances complex-wide communication and maintains a priority on safety, environmental stewardship and security. All interested parties are welcome to attend.

8:30 am – 5:00 pm	Session 81	Room 222B
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Roundtable: Energy Facilities Contractor Operating Group (EFCOG) - D & D

Co-Chairs: Andrew Szilagyi, US DOE; Lance Mezga, ORNL (USA)

Sponsor and Roundtable Reporter: Andrew Szilagyi
Organizers: Andrew Szilagyi, Lance Mezga

The D&D EFCOG will meet to discuss a variety of issues of importance to US DOE D&D Projects. The purpose of the D&D EFCOG is to seek out and promote the best management and operating practices, cost effective technologies and D&D options for all US DOE facilities. The D&D Task Group will focus on complex-wide integration and technology transfer while supporting cost effective and efficient options. This will be achieved in a way that enhances complex-wide communication and maintains a priority on safety, environmental stewardship and security. All interested parties are welcome to attend.

POSTER SESSIONS

The WM2009 Poster Sessions will be held at the PCC. The posters will be displayed for approximately 3-1/2 hours but the authors are scheduled to be at the booths for only two 30-minute periods. The posters will be arranged coinciding with the revised poster paper order in the Final Program. Posters will be displayed on the Second Floor of the PCC near the meeting rooms.

POSTER PRESENTER ATTENDANCE

Session #		Poster Period	Attendees First Period	Attendees Second Period	Poster Setup	Poster Removal
MONDAY, MARCH 2, 2009						
Afternoon	22	1:30 pm - 5:00 pm	1:30 pm – 2:00 pm	4:30 pm – 5:00 pm	1:00 pm – 1:30 pm	5:00 pm – 5:30 pm
TUESDAY, MARCH 3, 2009						
Morning	36	8:30 am –12:00 pm	8:30 am – 9:00 am	11:30 am – 12:00 pm	8:00 am – 8:30 am	12:00 pm – 12:30 pm
Afternoon	50	1:30 pm – 5:00 pm	1:30 pm -2:00 pm	4:30 pm – 5:00 pm	1:00 pm – 1:30 pm	5:00 pm – 5:30 pm
WEDNESDAY, MARCH 4, 2009						
Morning	67	8:30 am - 12:00 pm	8:30 am – 9:00 am	11:30 am – 12:00 pm	8:00 am – 8:30 am	12:00 pm – 12:30 pm
Afternoon	78	1:30 pm – 5:00 pm	1:30 pm – 2:00 pm	4:30 pm – 5:00 pm	1:00 pm – 1:30 pm	5:00 pm – 5:30 pm

NOTES

POSTER SESSIONS

STUDENT POSTERS COMPETITION – SESSION 22E

THE NEXT GENERATION – INDUSTRY LEADERS OF TOMORROW

Be sure to visit the Student Posters display on Monday afternoon and vote for your selection for Best Poster Winner. The winning student poster will be presented with \$500 cash at the Tuesday Honors and Awards Luncheon. Student Poster Presenters are offered free registration and housing at the WM2009 Conference, hosted by the Roy G. Post Foundation and WM Symposia. For more information on the Roy G. Post Foundation, please go to www.roygpost.org

E.1 - Removal of Radionuclides and Fission Products from Spent Nuclear Fuel using Sulphate Reducing Bacteria: Feasibility Study

Nonhlanhla Ngwenya, Evans Chirwa, University of Pretoria (Republic of South Africa)

E.2 - Testing of Puncture-Resistant Material for Protection of Beta Scintillation Detectors

Ramon A. Colon Mendoza, (DOE Fellow) Florida International University/Applied Research Center (USA)

E.3 - Using New Porous Nano Composites for Photocatalytic Water Decontamination

Maryam Zarei, University of Texas at El Paso (USA)

E.4 - Mercury Removal from East Fork Poplar Creek Using Chemical Reduction and Volatilization

Jose Vasquez, (DOE Fellow), Florida International University/Applied Research Center (USA)

E.5 - Waste Treatment Plant (WTP), Automated Operation Control via PLC for PEP

Serkan Akar, (DOE Fellow), Florida International University/Applied Research Center (USA)

E.6 - The Effect of Ultrasound in Dislodging Radioactive Waste from DOE Pipelines

Denisse Aranda, (DOE Fellow), Florida International University/Applied Research Center (USA)

E.7 - Selective Separation of Cs by Ammonium Molybdophosphate-Loaded Silica Gels

Yusuke Endo, Yan Wu, Hitoshi Mimura, Yuichi Niibori, Tohoku University; Isao Yamagishi, Shinichi Koyama, Masaki Ozawa, JAEA (Japan)

E.8 - Investigation of Effects of pH and Temperature on the Carbonate Promoted Dissolution of Meta-Autunite

Ravi Gudavalli, Florida Intl University/Applied Research Center (USA)

E.9 - Coal-Bed Methane Produced Water Treatment

Amy Pahmer, (DOE Fellow), Florida International University/Applied Research Center (USA)

E.10 - Treatment of Electric Arc Furnace Dust (EAFD) by Cement Solidification/Stabilisation (S/S) Using Sustainable Alternative Binders

Beste Cubukcuoglu, University of Surrey (UK)

E.11 - SHS Production of Nitride Nuclear Fuels Using Surrogate Materials

Collin Donohue, Colorado School of Mines (USA)

E.12 - Caustic Dissolution of Chromium in Underground Storage Tanks at Hanford Site

Alexander Henao, (DOE Fellow), Florida International University/Applied Research Center (USA)

E.13 - Terrestrial Radioactivity and Dose Calculation to the Public: The Case of the US

Merlin Ngachin, (DOE Fellow), Florida International University/Applied Research Center (USA)

E.14 - Thermodynamic Equilibrium Modeling of Mercury Speciation in the Environment

Amaury Betancourt, (DOE Fellow) Florida International University/Applied Research Center (USA)

WM2009 Common Acronyms List

* Country acronyms are US unless noted otherwise

AEA Atomic Energy Agency or the Atomic Energy Act of 1954	GTCC Greater Than Class C Low-Level Radioactive Waste	NWPA Nuclear Waste Policy Act of 1982
AECL Atomic Energy of Canada Ltd	H&S Health and Safety	NWPAA Nuclear Waste Policy Amendments Act of 1987
AFR Away-From-Reactor Storage	HEPA High Efficiency Particulate Air	OCRWM Office of Civilian Radioactive Waste Management
ALARA As Low As Reasonably Achievable	HEU Highly Enriched Uranium	OECD Organization for Economic Cooperation & Development (France)
ANDRA Agence nationale pour la question des déchets radioactifs (France)	HLW High Level Radioactive Waste	ORNL Oak Ridge National Laboratory
ANL Argonne National Laboratory	IAEA International Atomic Energy Agency (Austria)	PAC Program Advisory Committee
ANS American Nuclear Society	ICRP International Commission on Radiological Protection	PCC Phoenix Convention Center
ARM Accelerator-Produced Radioactive Material	ILW Intermediate Level Radioactive Waste	PNNL Pacific Northwest National Laboratory
ASME American Society of Mechanical Engineers	INL Idaho National Laboratory	PRA Probabilistic Risk Analysis
BNL Brookhaven National Laboratory	IPAC International Program Advisory Committee	PWR Pressurized Water Reactor
BWR Boiling Water Reactor	IPSN Institute de Protection et de Surete (France)	QA Quality Assurance
CE&T Public Communication, Participation, Education & Training	JAERI Japan Atomic Energy Research Institute (Japan)	QAPP Quality Assurance Program Plan
CEA Commissariat a l'Energie Atomique (France)	KAERI Korea Atomic Energy Research Institute (Korea)	QC Quality Control
CERCLA Comprehensive Environmental Response, Compensation and Liability Act	LAW Low-Activity Radioactive Waste	R&D Research and Development
CFR Code of Federal Regulations	LANL Los Alamos National Laboratory	RCRA Resource Conservation and Recovery Act of 1976
CH-TRU Contact-Handled Transuranic Radioactive Waste	LBNL Lawrence Berkeley National Laboratory	RDD Radiological Dispersion Devices
CPP Crosscutting Policies & Programs	LEU Low Enriched Uranium	RH-TRU Remote-Handled Transuranic Radioactive Waste
D&D Decontamination & Decommissioning	LL/ILW Low- and Intermediate-Level Radioactive Waste	ROC Republic of China
DAW Dry Activated Waste	LLNL Lawrence Livermore National Laboratory	RPV Reactor Pressure Vessel
DCS Dry Container Storage	LLRW/LLW Low Level Radioactive Waste	SKB Swedish Nuclear Fuel and Waste Management Company
DNFSB Defense Nuclear Facility Safety Board	LSA Low Specific Radioactive Activity	SNF Spent Nuclear Fuel
DOD United States Department of Defense	LWR Light-Water Reactor	SNL Sandia National Laboratories
DOE United States Department of Energy	M&I Management & Integration	SNM Special Nuclear Material
DOT United States Department of Transportation	M&O Management & Operation	SRS Savannah River Site
DWPF Defense Waste Processing Facility	MRS Monitored Retrievable Storage	SRNL Savannah River National Laboratory
EC European Commission	MW Mixed Hazardous and Radioactive Wastes	SRW Solid Radioactive Waste
EDF Electricite' de France (France)	NAGRA National Cooperative for the Storage of Radioactive Waste (Switzerland)	SS&S Security, Safety, & Safeguards
EFCOG Energy Facilities Contractor Operating Group	NCRP National Council on Radiation Protection	TENORM Technologically-Enhanced Naturally Occurring Radioactive Material
EIS Environmental Impact Statement	NDA Non-Detectable Activity or Nuclear Decommissioning Authority	TRU Transuranic (elements with atomic number > than 92)
EM Environmental Management	NDAA National Defense Authorization Act of 2005	TRUPACT Transuranic Waste Package Transporter
ENEA National Agency for New Technologies, Energy and Environment (Italy)	NEA Nuclear Energy Agency (France)	UK United Kingdom
EPA United States Environmental Protection Agency	NEI Nuclear Energy Institute	UKAEA UK Atomic Energy Authority
EPRI Electric Power Research Institute	NEPA National Environmental Policy Act of 1969	US/ USA United States of America
ER Environmental Remediation	NFDI National Facility Disposition Initiative	US ACE United States Army Corps of Engineers
ES &H Environment, Safety & Health	NNSA National Nuclear Security Administration	UNF Used Nuclear Fuel
FUSRAP Formerly Utilized Sites Remedial Action Program	NORM Naturally Occurring Radioactive Material	WAC Waste Acceptance Criteria
GAO United States Government Accountability Office	NPP Nuclear Power Plant	WD Waste Determination
GIS Geographical Information System	NRC United States Nuclear Regulatory Commission	WERC Waste-management Education & Research Consortium
GNEP Global Nuclear Energy Partnership	NTS Nevada Test Site	WIPP Waste Isolation Pilot Plant
	NWTRB Nuclear Waste Technical Review Board	WIR Waste Incidental to Reprocessing
		WM Waste Management
		WMS Waste Management Symposia
		WNA World Nuclear Association
		WRAP Waste Receiving and Processing
		WS Wet Storage
		WVNS West Valley Nuclear Services
		YM Yucca Mountain

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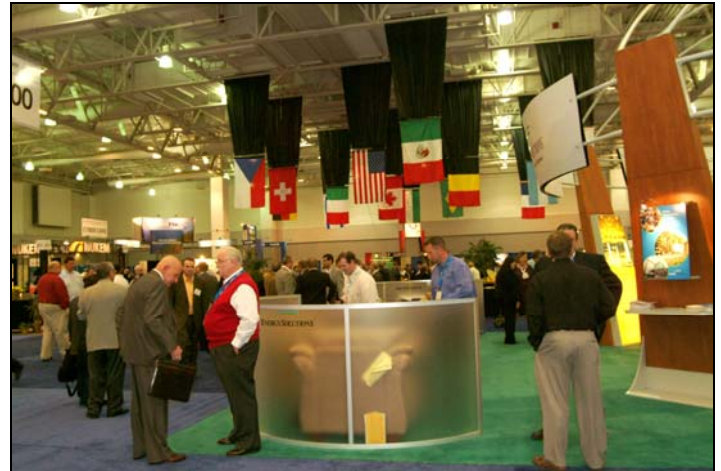
Sunday, March 1, 2009	5:00 PM – 8:00 PM	<i>(Opening Welcome Reception)</i>
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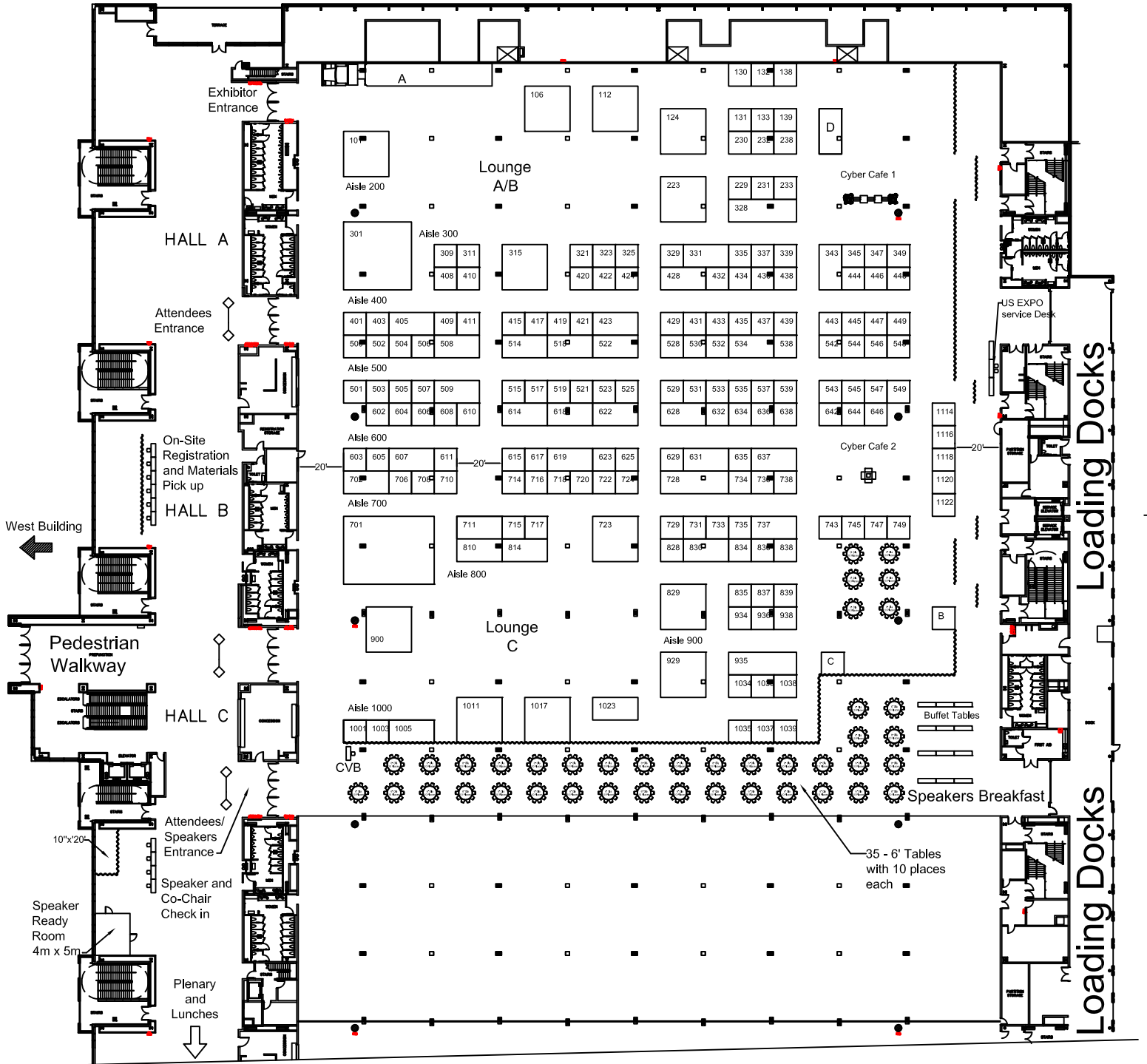


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The Commercial Vehicle Safety Alliance, a not for profit organization, promotes commercial motor vehicle safety and security and provides standardized-certified training, for inspectors and vehicle drivers of Highway Route Controlled radioactive material shipments and general freight on our nations highways.

Commodore Advanced Sciences, Inc.

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Commodore Advanced Sciences is a Small Business established in New Mexico in 1977, with offices in Richland, Oak Ridge, Denver, and Los Alamos. Commodore specializes in environmental monitoring and sampling services, compliance sampling, biological monitoring, habitat assessment, benthic laboratory services, and waste treatment services, especially PCB waste and LLMW.

Container Products Corporation

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Container Technologies Industries, LLC

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Diversified Metal Products

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New Exhibitor

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Doerfer Companies

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Doerfer Companies' Wheelift Systems

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Eastern Technologies, Inc.

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Ecotone Services, Inc.

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Edwards Moving & Rigging, Inc.

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Environmental Dimensions Inc. (Edi)

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Environmental Rail Solutions, Inc.

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Fluor Government Group

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Fontijne Grotnes B.V.

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GEL Laboratories, LLC

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General Plastics Mfg. Co

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GoldSim Technology Group, LLC

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Hot Cell Services Corporation

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IAP Worldwide Services, Inc.

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ICx Radiation

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INTERA Incorporated

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International Nuclear Services

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Inventure Laboratories, Inc.

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Joseph Oat Corporation

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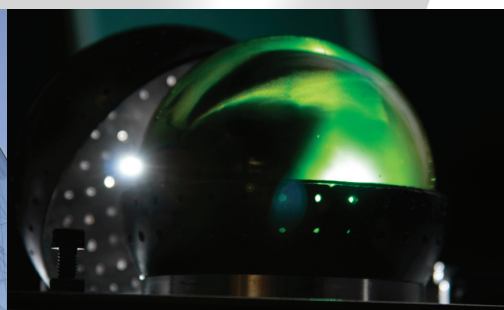
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Radiation Safety & Control Services, Inc.

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RSCS provides world class project management, field services, and products to a wide range of radiological and nuclear companies. We specialize in radiological characterization and work planning, licensing, groundwater, and instrumentation services for operating and decommissioning sites. Our products include radiological instruments and specialty software for users of radioactive material.

Radwaste Solutions

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Booth #: 539 - C

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Website: www.ans.org/advertising

Radwaste Solutions is the only magazine serving the nuclear waste management and cleanup business segments of the industry. In the United States, this business is centered on four industry subsets: (1) the Department of Energy's remediation of its weapons production and research facilities; (2) the DOE's civilian radioactive waste activities; (3) nuclear utilities, and (4) nonpower, non-DOE activities.

Also, other countries are cleaning up and decommissioning their government nuclear facilities and older nuclear power plants, and U.S. businesses are increasingly obtaining contracts and subcontracts to perform this work. NOTE: A complimentary copy of the current issue is included in your WM2009 registration packet!

Reef Industries, Inc.

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River Bend Transfer Systems, LLC

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River Bend Transfer Systems provides custom designed systems utilizing hose-in-hose technology for conveying chemicals and other hazardous materials. State and federal regulatory agencies insist on safe and dependable handling of chemicals and chemical waste. Our cost effective and efficient alternative to double wall containment pipe exceeds the demands of the chemical and waste management industries. Working with contractors for the US DOE Hanford Site, River Bend has built a number of hose-in-hose transfer line (HIHTL) systems that are used to transfer high level nuclear waste throughout the Hanford site. Hanford now utilizes them for all temporary nuclear waste transfers. To date, over 15 million gallons of radioactive waste has been transferred through our HIHTLs at the Hanford site.

River Technologies, LLC

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River Technologies provides innovative, reliable and durable equipment to assist in the removal of radiological and environmental hazardous waste in a safe and physically responsible manner. We have combined years of on site experience with our ability to communicate with our customers which has enabled us to partner with others in a variety of projects such as the Steam Generator Eddy Current Contamination Control System.

RJR Engineering, PC

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New Exhibitor

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RJR Engineering is a professional engineering company operating under an ASME NQA-1 Quality Assurance Program. We are a SBA small business with professionals licensed in 40 states. We specialize in civil, structural and mechanical engineering, and serve all client types, with a focus on the nuclear and power industries.

Robatel Technologies LLC

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Robatel Technologies LLC, based in Roanoke VA, is a wholly owned subsidiary of Robatel Industries SA. We provide design engineering and specialty manufacturing to North American clients offering turnkey capabilities in the areas of glove boxes, hot cells, casks and heavy shielded components.

S.A. Robotics

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S.A. Robotics is an advanced technology and engineering company. We design, build, test and deploy an array of remote handling, robotic and containment systems and equipment in use throughout industry. S.A. Robotics' innovative systems and equipment are deployed on some of the worlds most hazardous and sensitive tasks. S.A. Robotics specializes in the "Concept to Creation" fast track delivery of remote and robotic arms and manipulators, specialty tooling,

hazardous and radioactive containment structures, gloveboxes and waste handling and packaging systems.

S.M. Stoller Corporation

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The S.M. Stoller Corporation was established in 1959 to provide nuclear engineering consulting services. Today, Stoller is a company of over 400 employees providing services including site characterization, design, and remediation, facility management, water and air sampling, information management, waste management, D&D, analytical quality assurance and control, and risk assessment.

Safety & Ecology Corporation - SEC

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As one of the premier environmental firms in the US and Europe, SEC provides a wide range of services including: Radiological/Hazardous Remediation and Site Closure; Facility D-4 and License Termination; ES&H, RADCON, Emergency Response, Disaster Relief; and Water/Wastewater Services. SEC also has one of the largest Instrumentation Laboratories in the country. SEC's primary NAICS code is 562910. SEC...when results matter.

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Science Applications International Corporation (SAIC) has provided DOE/NNSA with decades of support in environmental restoration, remediation, and waste management. Our environmental and nuclear security professionals have helped execute DOE's missions throughout the complex. Now celebrating our 40th anniversary, SAIC remains committed to technical, scientific, and engineering excellence.

**The Shaw Group**

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SSM Industries, Inc.

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Strata - G

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Strata-G is a Veteran-Owned Small Business committed to a legacy of environmental and energy stewardship through the successful application of engineering, science, and technology.

Studsvik, Inc.

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Studsvik is a leading supplier of services to the international nuclear industry. Studsvik operates in a high-growth market and provides qualified services through four Strategic Business Areas: Operating Efficiency and Safety, Service and Maintenance, Waste Treatment and Decommissioning. Studsvik has 1,200 employees in 7 countries. Studsvik is a full scope global nuclear services provider with core capabilities in waste handling, processing and disposal. Through fixed based processing facilities in Erwin and Memphis TN we offer process and/or disposal for all types of low level waste through means including but not limited to volume reduction for disposal, volumetric survey for disposal and decontamination for release.

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Trentec / Division of Curtiss-Wright

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TestAmerica is the leading environmental testing firm in the United States, including 48 laboratories and 24 service centers nationwide. TestAmerica provides comprehensive analytical testing services, including specialty analyses for radiochemistry and mixed wastes, radiobioassay, source and ambient air, specialty organics and dioxin, drinking water, emerging contaminants, and sediments.

Tetra Tech, Inc.

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THOR Treatment Technologies

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THOR Treatment Technologies offers a patented, non-incineration, steam reforming process to convert a variety of problematic radioactive hazardous wastes to a form that can be disposed of safely and cost-effectively.

Tri-State Motor Transit Company

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UKAEA

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UKAEA has over 50 years experience in nuclear site management, operations, power generation and decommissioning. Through projects spanning the nuclear lifecycle, UKAEA provides industry-leading technical, design, engineering, safety, and programme and project management consultancy services to organisations around the world. Our

unrivalled expertise ensures our solutions are delivered safely, on time and within budget.

UltraTech International, Inc.

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Underwater Construction Corporation

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New Exhibitor

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Underwater Construction Corporation provides diving services for DOE & commercial nuclear facilities in contaminated water including inspection, maintenance, welding, cutting, waste removal, and D&D. Diving operations can be safely and effectively performed in the reactor vessel, fuel storage pools, suppression pool, intake and discharge systems, cooling towers, and storage tanks.

UniTech Services Group

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UniTech Services Group, Inc. is the world's largest supplier of nuclear protective clothing and accessories. Our nuclear licensed decontamination facilities throughout the US and Europe provide the following services: radiological laundering of protective clothing, decontamination and testing of respirators, and the decontamination of tools & equipment (scaffolding, hand tools, portable HEPA vacuums, etc.) Our products and services are designed to provide our customers cost effective protection of their workers with minimal generation of radioactive waste.

URS Washington Division

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US DOE NV Site Office

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The US Department of Energy (DOE) National Nuclear Security Administration Nevada Site Office Environmental Management Program is

responsible for addressing contamination from historic nuclear testing in Nevada; Nevada Test Site environmental protection activities, and; the disposal of low-level and mixed low-level radioactive waste generated at DOE and US Department of Defense cleanup sites.

US DOE Office of Environmental Management

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The mission of the Office of Environmental Management (EM) is to complete the safe cleanup of the environmental legacy brought about from five decades of nuclear weapons development and government-sponsored nuclear energy research.

US DOE Office of Legacy Management

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The U.S. Department of Energy Office of Legacy Management (LM) was established in 2003 to provide a long-term, sustainable solution to the legacy of the Cold War. LM is responsible for long-term surveillance and maintenance of environmental remedies, promotion of beneficial reuse, and management of records and information for former weapons production sites across the nation.

US DOE Yucca Mountain Project

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The US DOE Yucca Mountain Project is one of the primary activities of the US Department of Energy's Office of Civilian Radioactive Waste Management (OCRWM), the agency tasked with the development and management of a safe system to dispose of spent nuclear fuel and high-level radioactive waste.

US Ecology

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Visionary Solutions, LLC

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Visionary Solutions, LLC an 8(a), SDB providing logistics, transportation, technical services and training to federal and commercial clients. We

focus on providing safe, accurate and compliant solutions to complex technical issues relative to packaging, treatment, storage and disposal of hazardous and radioactive material. We specialize in transport and disposal operations.

Vista Engineering Technologies

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Vista Engineering is a small business providing engineering and technology development services. Vista Engineering provides the patented Magnetically Coupled Pressure Gauges deployed in nuclear storage applications. and provides engineering services for the patented Low-Range Differential Pressure level monitoring system in Naval fuel facilities. (delete) Professional Engineering services include mechanical, electrical, civil, nuclear, and environmental engineering with specialized expertise in HVAC, corrosion and leak detection. Vista Engineering is also a leader in geotechnical services such as ground water monitoring and engineering design and analysis for FEA and CFD.

VJ Technologies

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Vulcan Global Manufacturing Solutions

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New Exhibitor

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W.I.P.P

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The US DOE's Waste Isolation Pilot Plant, or WIPP, became the nation's first operating underground repository for radioactive defense wastes in 1999. The WIPP facility, located in southeastern New Mexico, was designed for permanent disposal of radioactive transuranic waste, the byproduct of nuclear weapons research and production. Project facilities include disposal rooms excavated 2,150 feet underground in an ancient, stable salt formation.

Wagstaff Applied Technologies

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New Exhibitor

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Wagstaff AT provides the nuclear industry with mechanical/electrical engineering, fabrication, machining, assembly, and test services. It also provides automated control systems, robotics, custom single-acting hydraulic cylinders and hydraulic power units. Projects include conveyor systems, rolling carriages, rails, cask/container lidding machines, fresh fuel containers, container lids, and CO2 blast systems.

Waste Control Specialists, LLC

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Waste Control Specialists LLC (WCS) owns and operates a treatment, storage and disposal facility located on a 1,338 acre site in Andrews County, Texas. WCS is currently authorized to treat and store a broad range of hazardous, toxic, and radioactive waste including all classes of LLRW, TRU, and GTCC; and dispose of LDR compliant toxic, hazardous, and NORM waste. In October 2007, WCS received a draft license to also dispose of 11e(2) Byproduct material and a draft disposal license for Class A, B and C LLRW from the Texas Commission on Environmental Quality is pending. Disposal under the new licenses is scheduled to begin April 2009 and February 2010, respectively, after the requisite public comment periods, hearings and facility construction.



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Nuclear and Environmental Safety Consultants

Trinitek Services proudly supports the WM2009 Conference.

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West Metal Works

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New Exhibitor

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Westerman Companies

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Westinghouse Electric Company

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WMG, Inc.

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WMG has over 25 years of experience supporting all aspects of radioactive materials management. Our services include: Specialty Characterization, Major Component Disposal, Standard & Customized Software, D&D Engineering Support, On-Site Project Management, Package Design & Licensing/Permitting, Regulatory Training, Spent Fuel Pool Cleanup, and GTCC Waste Management. We support most of the nation's operating nuclear power plants, commercial LLRW processing facilities and several DOE sites and facilities.

For information on exhibiting at WM2010, please contact Cali Adkisson with M.Y. Events, Inc. at 480-968-7559 or by email at exhibits@wmarizona.org.

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231	River Technologies, LLC	506	Radiation Safety & Control Services
232	Quality Inspection Services, Inc.	507	BIGGE Power Constructors
233	W.I.P.P	508 - 510	AECOM
238	R & R Trucking	509 - 511	GETINGE La Calhene, Inc.
301	AREVA	514 - 516	Waste Control Specialists, LLC
309	American Radiation Services, Inc.	515	S.M. Stoller Corporation
311	Major Tool & Machine, Inc.	517	Wagstaff Applied Technologies
315	AMEC Nuclear Ltd.	518 - 520	AttentionIT, Inc.
321	Cast Transportation	519	Millennium Services, Inc.
323	ORAU / ORISE	521	Robatel Technologies LLC
325	Absorbtek, LLC	522 - 524	Enercon Services
328 - 332	Westerman Companies	523	QinetiQ North America
329	Precision Custom Components, LLC	525	Applied Research Center at FIU
331 - 333	Westinghouse Electric Company	528	General Plastics Mfg. Co
335	Fontijne Grotnes B.V.	529	DW James Consulting, LLC
337	American Crane & Equipment Corp.	530	IAEA Careers - Argonne National Lab
339	Pace Analytical Services, Inc.	531	US DOE Office of Environmental Mgmt
343 & 442	Pajarito Scientific Corporation	532	International Isotopes
345	IBC Advanced Technologies, Inc.	533	UKAEA
347	Post Prof Opportunities Campus	534 - 536	American DND, Inc.
401	Pentek, Inc.	538	Inventure Laboratories, Inc.
403	Container Technologies Industries	539	American Nuclear Society
405 - 407	ECC	539 - B	Nuclear News
408	Nuclear Filter Technology	539 - C	Radwaste Solutions
409	CDM	542	INTERA Incorporated
410	Paragon Analytics	543	NuclearStreet.com / Radium Inc.
411	DZ Atlantic	602	IMPACT Services, Inc.
415	Reef Industries, Inc.	603	Hot Cell Services Corporation
417	UltraTech International, Inc.	604	ORTEC
419	Navarro Research and Engineering	605	Oak Ridge National Laboratory
420	Tetra Tech, Inc.	606	ANTECH Corporation
421	Strata - G	607 - 609	MACTEC
422	Trentec / Division of Curtiss-Wright	608	NUCON International, Inc.
423 - 425	Ceradyne, Inc.	610	E.J. Brooks Company
424	ABW Technologies, Inc.	611	Clean Harbors Environmental Services
428 - 430	North Wind, Inc	614 - 616	Lockheed Martin
429	Barnhart Nuclear Services	615	CH2M HILL
		617	Studsvik, Inc.

EXHIBITOR LIST BY BOOTH NUMBER AS OF JANUARY 26, 2009

618 - 620 Premier Technology, Inc.
 619 - 621 PaR Systems, Inc.
 622 - 624 MGP Instruments, Inc.
 623 NSSI
 625 Ecotone Services, Inc.
 628 - 630 Eberline Services, Inc.
 629 Central Research Laboratories
 631 - 633 Burns and Roe
 632 CBI Polymers
 634 Nat'l Museum of Nuclear Science & Hist
 635 Microfiltrex - Division Porvair Filtration
 637 - 639 Northrup Grumman Corporation
 638 Joseph Oat Corporation
 642 RJR Engineering, PC
 642 West Metal Works

701 EnergySolutions
 702 - 704 US Ecology
 706 GEL Laboratories, LLC
 708 GoldSim Technology Group, LLC
 710 Longenecker & Associates, Inc.
 711 UniTech Services Group
 714 Golder Associates, Inc.
 715 Vista Engineering Technologies
 716 US DOE Office of Legacy Management
 717 Cavanagh Services Group, Inc.
 718 Eastern Technologies, Inc.
 720 PacTec, Inc.
 722 Frham Safety Products, Inc.
 723 Perma-Fix Environmental Services
 724 Teledyne Brown Engineering
 728 - 732 US DOE NV Site Office
 729 Chesapeake Nuclear Services, Inc.
 731 Kleinfelder
 733 ACHMM
 734 Container Products Corporation
 735 Diversified Metal Products
 736 Greenfield Logistics, LLC
 737 - 739 US DOE Yucca Mountain Project
 738 Columbia Energy & Environmental Svc
 743 Commercial Vehicle Safety Alliance
 749 Alaron Corporation

810 WMG, Inc.
 814 International Nuclear Services
 828 Environmental Dimensions Inc. (Edi)
 829 Petersen, Inc.
 830 - 832 Cabrera Services, Inc.
 835 Mid-Columbia Engineering
 836 Environmental Rail Solutions, Inc.
 838 Advanced Technologies & Lab Intl.
 839 Netzsch Instruments, Inc.

900 MHF Logistical Solutions, Inc.

929 Fluor Government Group
 934 MSE Technology Applications, Inc.
 935 - 939 National Nuclear Laboratory Ltd.
 936 hydroGEOPHYSICS, Inc.
 938 Vulcan Global Manufacturing Solutions

1001 Power Products and Srvs Company
 1003 Shaw Group, The
 1005 SAIC
 1011 Safety & Ecology Corporation - SEC
 1017 URS Washington Division
 1023 I.C.E. Service Group, Inc.
 1034 VJ Technologies
 1035 Mobile Characterization Services, LLC
 1036 THOR Treatment Technologies
 1116 NukeWorker.com

Vehicle A Visionary Solutions, LLC
 Vehicle B ICM
 Vehicle C Pentek, Inc.
 Vehicle D MACTEC

Subject to change



The WM2010 Conference will be held at the Phoenix Convention Center West Building March 7 – 11, 2010.

For more information on exhibiting at the conference or sponsorship opportunities, please contact Cali Adkisson with M.Y. Events, Inc. at exhibits@wmarizona.org or by phone at +1 520-696-0399.

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Roy G. Post Foundation Benefit Golf Tournament 2009

**The Golf Tournament at the Raven Golf Club at South Mountain
Saturday, February 28, 2009 was a Success!**

The Roy G. Post Foundation, a 501(c)(3) foundation dedicated
to education in the safe management of nuclear materials
in honor of WMS Founder, Dr. Roy G. Post.

All proceeds goes to scholarships and awards for the next generation of nuclear scientists and engineers.

In 2009 The Roy G. Post Foundation will award 6 scholarships!

Please join us on Tuesday at the Awards and Honors Luncheon to honor the students that
have worked so hard to make it to the conference. We will see you at the Golf Tournament in 2010!

**Thank you to our 2009 Post Foundation Sponsors and
we look forward to their Continued Support in 2010!**

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