

WM Symposia

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



WM2010

**Improving the Future by
Dealing with the Past**

Final Program

March 7 - 11, 2010

*Phoenix Convention Center, West Building
Phoenix, Arizona*



WM Symposia

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For information sponsoring next year at WM2011, February 27- March 3, please contact WMS at exhibits@wmarizona.org

Table of Contents

Introduction & Welcome	2
WM2010 Schedule of Events	3
Meeting Contacts & WMS Officers and Directors	4
WM Program Advisory Committee Members (PAC)	5
Conference Registration	
• Registration	6
• Location and Onsite Registration Desk Schedule	7
• Hotel Accommodations	7
• Airline, Car Rental, Metro Light Rail Service and Taxis	8
• Lunches, Refreshment Breaks and Proceedings	9
• Speaker & Co-Chair Information and A/V Support	10
Special Meetings, Training and Events	
Sunday – Workshop, Orientation & Opening Reception	11
Monday – Plenary, ASME Committee & Reception	11
Tuesday – IFSOUP, Best of Arizona Reception and WoWM	12
Wednesday – Rustler’s Rooste Reception/Dinner	12
Thursday – Nuclear Renaissance Panel, PAC Meeting	13
Contracting and Opportunities Sessions	14
Scholarships, Honors and Awards at the Tuesday Luncheon	15
WM2011 Exhibition and Marketplace	16
Roy G. Post Foundation	16
Guest Program and Tours	17
Maps	
Metro Light Rail	18
Phoenix Convention Center (PCC) Walking & Parking Guide	19
PCC West Building, Lower Level Registration/Exhibit Hall	20
PCC West Building, Level Three Breakfasts/Plenary/Lunches	21
PCC West Building, Level One Technical Sessions and A/V	22
Common Acronyms List	23
Technical Program Schedule at a Glance	24
Listing of Technical Program – Session 1 – 89	26
Poster Sessions/Hours Displayed Each Day	71
Authors Index	72
Exhibition and Marketplace – by Company & Booth Number/Map	81
Exhibitor Contacts and Descriptions Listed Alphabetically	86
WM2011 Conference Planning Schedule	120

WM2010 Theme

“Improving the Future by Dealing with the Past”

It gives me great pleasure to welcome you to the 36th Annual Waste Management Conference, WM2010.

Now in our third year in Phoenix, the conference continues to grow and develop. In recognition of the growing drive towards new reactor builds and the need to demonstrate that nuclear waste management is well developed, we have adopted the theme *'Improving the Future by Dealing with the Past'*.

The technical program is comprehensive with over 500 papers and nearly 90 technical sessions and panels and of course complemented by an extensive exhibition.

There will be the opportunity for networking both in the formal activities but also in the range of informal and social events organized both by the Conference and participating companies.

The aim of the WM Board and the Program Advisory Committee is to put on a program that you find interesting, stimulating and informative. If you have ideas on how to improve the conference, please let us know.

I would like to thank the WM team for their efforts and our sponsors for their contributions that enhance what we can accomplish. Thanks also to our attendees and exhibitors who make the conference so exciting.

We are a non-profit organization with the aim of promoting education and opportunity and your participation helps us to further these objectives.

I hope you have a very profitable time.



Fred Sheil
Chairman - WM Symposia
Sellafield Ltd, United Kingdom



March 7 – 11, 2010

The annual Waste Management Conference, presented by WM Symposia (WMS), a non-profit organization dedicated to education and opportunity in waste management, is widely regarded as the premier international conference for the management of radioactive materials and related topics. Now for the 36th year, the WM2010 Conference will convene in the Phoenix Convention Center (PCC), located at 111 N. Third Street in Phoenix, Arizona. WM2010 will be held in the West Building, across from the Hyatt Regency Phoenix.

For the latest news and conference updates onsite, please visit <http://www.wmsym.org>.



Twitter: @WMSymposia - #wmsym2010



Find us on
Facebook

**Facebook:
WMSymposia**

WM2010 Schedule of Events

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

SATURDAY, March 6, 2010

7:00 a.m. – 8:00 p.m.
8:00 a.m. – 4:30 p.m.
1:00 p.m. – 5:00 p.m.
5:00 p.m. – 6:00 p.m.
6:00 p.m. – 9:30 p.m.

Guest Tour – *Grand Canyon** - Bus Loading at Hyatt Regency
Roy G. Post Foundation Fundraising Golf Tournament – *The Raven Golf Club*
Registration Open – *Lower Level*
Individual PAC Meetings by Track for WM2011 Topic Development – *Hyatt Regency*
PAC Meeting and Dinner – *Hyatt Regency*

SUNDAY, MARCH 7, 2010

8:30 a.m. – 3:00 p.m.
9:00 a.m. – 5:00 p.m.
12:00 p.m. – 4:00 p.m.
1:00 p.m. – 8:00 p.m.
3:00 p.m. – 4:00 p.m.
3:00 p.m. – 4:00 p.m.
4:00 p.m. – 4:45 p.m.
5:00 p.m. – 8:00 p.m.

WM Board of Directors Meeting – *Hyatt Regency Phoenix*
Nuclear Manager Training Workshop* – *Level One*
Guest Tour – *Sonoran Desert Hike**- pickup at Hyatt Regency
Registration Open – *Lower Level*
Post Foundation Trustees Meeting – *Hyatt Regency Phoenix*
First Time WM Attendee Orientation – *Level One*
Student Assistant Training – *Level One*
Welcome Reception and Exhibition Opening – *Lower Level, Exhibit Hall*

MONDAY, MARCH 8, 2010

7:00 a.m. – 5:00 p.m.
7:00 a.m. – 8:00 a.m.
7:30 a.m. – 11:00 a.m.
8:00 a.m. – 10:00 a.m.
8:30 a.m. – 9:30 a.m.
9:30 a.m. – 6:00 p.m.
10:00 a.m. – 5:00 p.m.
12:00 p.m. – 1:30 p.m.
2:30 p.m. – 3:00 p.m.
4:30 p.m. – 6:00 p.m.
6:00 p.m. – 7:30 p.m.

Registration Open – *Lower Level*
Speaker's Breakfast – *Level Three*
ASME Radwaste System Committee Meeting – *Level One*
Opening Plenary Session – *Level Three*
Guest Program/Continental Breakfast – *Level Three*
Exhibit Hall Open – *Lower Level*
Technical Sessions 2 - 24 – *Level One*
Keynote Luncheon – *Level Three*
Refreshment Break – *Lower Level, Exhibit Hall*
International Welcome Reception – *Lower Level, Exhibit Hall*
Students and Young Professionals Reception – *Level One*

TUESDAY, MARCH 9, 2010

7:00 a.m. – 8:00 a.m.
7:00 a.m. – 5:00 p.m.
8:30 a.m. – 9:30 a.m.
8:30 a.m. – 5:00 p.m.
9:00 a.m. – 12:00 p.m.
9:30 a.m. – 6:00 p.m.
12:00 p.m. – 1:30 p.m.
2:30 p.m. – 3:00 p.m.
4:30 p.m. – 6:00 p.m.
6:00 p.m. – 7:30 p.m.

Speaker's Breakfast – *Level Three*
Registration Open – *Lower Level*
Guest Program/Continental Breakfast – *Level Three*
Technical Sessions 25 – 52 – *Level One*
IFSOP Meeting
Exhibit Hall Open – *Lower Level*
Honors and Awards Luncheon – *Level Three*
Refreshment Break in Exhibit Hall – *Lower Level*
Best of Arizona Reception in Exhibit Hall – *Lower Level*
Women of Waste Management (WoWM) Networking Reception – *Level One*

WEDNESDAY, March 10, 2010

7:00 a.m. – 8:00 a.m.
7:00 a.m. – 5:00 p.m.
8:30 a.m. – 9:30 a.m.
8:30 a.m. – 5:00 p.m.
9:30 a.m. – 1:30 p.m.
9:30 a.m. – 1:30 p.m.
12:00 p.m. – 1:30 p.m.
2:30 p.m. – 3:00 p.m.
6:30 p.m. – 10:00 p.m.

Speaker's Breakfast – *Level Three*
Registration Open – *Lower Level*
Guest Program/Continental Breakfast – *Level Three*
Technical Sessions 53 – 81 – *Level One*
Exhibit Hall Open – *Lower Level*
Guest Tour – *Arizona Mills Outlet* Bus* – pickup Hyatt Regency
ASME ICEM 2010/2011 Orientation and Planning Meeting - *Level One*
Refreshment Break - *Level One*
Networking Reception & Dinner – *Rustler's Rooste**- pickup at Hyatt Regency

THURSDAY, MARCH 11, 2010

7:00 a.m. – 5:30 p.m.
7:00 a.m. – 8:00 a.m.
7:00 a.m. – 12:00 p.m.
8:30 a.m. – 12:00 p.m.
8:30 a.m. – 9:30 a.m.
9:00 a.m. – 5:00 p.m.
12:00 p.m. – 3:00 p.m.

Guest Tour – *Sedona & Native American Ruins** pickup at Hyatt Regency
Speaker's Breakfast – *Level One*
Registration Open – *Level One*
Technical Sessions 82-89 – *Level One*
Guest Program/Continental Breakfast – *Level One*
Radioactive Waste Packaging, Transport., & Disposal Workshop*
WM2011 PAC Meeting and Luncheon – *Level One*

* - Separate Registration Fees

Subject to change, please see the Insight Newsletter and signage onsite for changes.

Meeting Contacts & WMS Officers and Directors

WM2010 Planning Committee

Fred Sheil, General Chair

Gary Benda, Program Advisory Committee
(PAC) Chair/Deputy Managing Director

Linda Lehman, Deputy PAC Committee Chair

Bernard Vigreux, European Coordinator

Meeting Contacts

WMS Managing Director - **James W. Voss**

E: jamesvoss@wmarizona.org

V: +1 520-696-0399 F: +1 520-615-8997

Deputy Managing Director & Program Advisory Committee (PAC) Chair - **Gary A. Benda**

E: gbenda@wmarizona.org

V: +1 803-345-2170 F: +1 803-345-2170

Deputy PAC Chair - **Linda Lehman**

E: llehman@wmarizona.org

V: +1 612-867-9725 F: +1 509-376-4336

Conference Newsletter "*Insight*"

Editors: Linda Ulland and Linda Lehman

E: llehman@wmarizona.org

Meeting Planner - **Mary E. Young, CMP**

E: mary@wmarizona.org

V: +1 520-696-0399 F: +1 520-829-3550

Exhibits & Sponsorships

E: exhibits@wmarizona.org

Technical Papers Administrator - **Stacey Cope**

E: papers@wmarizona.org

Registration & Housing - **Jená Pinson**

E: onlinereg@wmarizona.org

WM Symposia Corporate Officers

Fred Sheil, Sellafield Ltd. - Chairman of the Board

James Gallagher, Gallagher Consulting - President

Steven Kadner, Canberra Aquila Inc. - Treasurer

John Mathieson, UK NDA - Secretary

WM Symposia General Counsel

James Glasgow, Pillsbury Winthrop

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Dorothy Davidson, AREVA, NP

Raul Deju, EnergySolutions

George Dials, B&W Technical Services Group

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Nancy Rothermich, Lawrence Berkley National Lab

Fred Sheil, Sellafield Ltd.

Robert F. Williams, WTA, Inc.

James W. Voss, The Terra Verde Group

Gary Benda, Cavanagh Services Group, Inc.

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Hiroshi Kuribayashi, Consultant

James G. McCray, Professor Emeritus, U of A

C. Clint Miller, Pacific Gas & Electric Co.

Takao Nakajima, JAIF & Kurihalant Co., Ltd.

Mamoru Numata, JGC Technologies Research

Conference Registration

Registration Categories

Full Technical Registration includes four days of the conference, receptions, Monday Keynote Lunch, Tuesday Awards Lunch and Wednesday Exhibit Hall lunch, the conference proceedings as well as the Wednesday evening event.

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

One Day Technical Registration includes one day of the conference, reception, lunch and proceedings. However, if registering for Wednesday, the Thursday morning attendance and the Wednesday evening event are included.

Student Registration - see Full Technical Registration description. Available to full-time students less than 35 years old.

Speakers/Panelists - please note that all attendees of the WM2010 conference, *including speakers, panelists and Co-Chairs*, must register for the conference in one of the 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 and morning guest breakfasts. Guest badges do not permit access to the technical sessions.

Guests are defined as a spouse or a partner accompanying a paid registrant. Guests or partners working in the nuclear industry, or business associates do not qualify and must obtain a separate Exhibit Hall pass.

Onsite Registration Fees

Full Technical	\$1,025
2 Day Tech - Monday/Tuesday or Tuesday/Wednesday	\$845
1 Day Tech - Monday, Tuesday or Wednesday/Thursday	\$725
Full-Time Student	\$35
Sunday: Nuclear Manager Training Workshop	\$195 each
Exhibit Hall Only	\$520
Guest Registration	\$250
Lunch Ticket - Monday <i>or</i> Tuesday	\$50 each
Lunch Ticket - both Monday & Tuesday	\$75
Reception - Sunday, Monday or Tuesday	\$30 each
Rustler's Rooste Dinner on Wednesday evening	\$75

Payment Policies

If you have pre-registered for the conference, but not paid for some reason, payment is required before a name badge can be printed and access allowed to the conference. If we are unable to verify that your organization has paid for your registration, we may request a credit card at the time of check-in to charge for payment.

Purchase Orders or Training Requisition forms **DO NOT CONSTITUTE PAYMENT.**

Checks are to be made payable to: WM Symposia or WM2010 Conference.

Credit cards accepted: Visa, MasterCard, and American Express. All payments must be made in US Dollars.

Bank transfers are not accepted.

Cancellation & Substitution Policy

Refunds will not be granted after January 29, 2010; nor will they be given to no-shows after the conference. No substitutions are permitted after February 12, 2010.

Special Needs

WMS Staff will be glad to help with any special needs (i.e. physical, dietary). Please see a Manager at the Registration Desk for assistance.

Translation Services

Please visit the Registration Desk for assistance if you should need translation services during the conference. WMS PAC Members who are multi-lingual have volunteered to assist others as needed.

All WM2010 sessions are presented in English.

First Aid

If first aid assistance is needed, please notify any WMS, PCC Security or a hotel staff member.

Each meeting room at the PCC has a Security Monitor System that is a direct link to the Security department for emergencies as well as non-emergency help.

The PCC is also equipped with [Automated External Defibrillators \(AED\) throughout the building](#). An AED is a device about the size of a laptop computer that analyzes the heart's rhythm for any abnormalities and, if necessary, directs the rescuer to deliver an electrical shock to the victim. This shock, called defibrillation, may help the heart to reestablish an effective rhythm of its own.

On-Site Registration Desk Hours

Saturday, March 6	1:00 PM – 5:00 PM
Sunday, March 7	1:00 PM – 8:00 PM
Monday, March 8	7:00 AM – 5:00 PM
Tuesday, March 9	7:00 AM – 5:00 PM
Wednesday, March 10	7:00 AM – 5:00 PM
Thursday, March 11	7:00 AM – 12:00 PM

Exhibit Hall Hours

Sunday, March 7	5:00 PM – 8:00 PM
Monday, March 8	9:30 AM – 6:00 PM
Tuesday, March 9	9:30 AM – 6:00 PM
Wednesday, March 10	9:30 AM – 1:30 PM

Ribbons

Please stop by the Registration Desk to collect your registration ribbons which include Presenter, Co-Chair, PAC member, Country name and more!

If you are a presenter, the Speaker & Co-Chair Check-in Desk located on Level One, Room 101A will also have ribbons available.

Smoke Free Arizona Act

The Phoenix Convention Center is a smoke-free facility complying with the Smoke-Free Arizona Act. The Smoke-Free Arizona Act restricts smoking in public places and workplaces including but not limited to bars, restaurants, workplaces, stadiums, reception areas, theatres, and designated non-smoking hotel rooms.

Should you wish to smoke, please look for the designated smoking areas outside of the building.

Cyber Cafés

Cyber Cafés will be located in the Lower Level of the PCC in the Exhibit Hall and on Level One. Attendees will be able to access email and print messages as well as itineraries.

Hotel Welcome Desks

Be sure to visit our Welcome Desks at the Hyatt Regency Phoenix and the Wyndham Phoenix. Staffed by local convention and visitor bureau staff, you will find information on downtown Phoenix as well as get assistance with any questions you may have about Phoenix.

The Welcome Desks will be open Sunday thru Tuesday and are located in the lobby of the hotels.

Hotel Accommodations

For hotel assistance on-site, visit the Aquila Travel Desk and Sherry Roberts-Chavez in the Registration area, Lower Level of the PCC during registration desk hours. You may also reach her by phone at 800-595-6257 or email at sherry@aquilatravel.com.

Hyatt Regency Phoenix P: +1 602-252-1234
122 North Second Street, Phoenix, AZ 85004

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

Hilton Suites Phoenix P: +1 602-222-1111
10 East Thomas Road, Phoenix, AZ 85012-3114

Holiday Inn Express P: +1 602-452-2020
620 N. Sixth Street, Phoenix, AZ 85004

Radisson Hotel Airport North P: +1 602-220-4400
427 North 44th Street, Phoenix AZ 85008

Phoenix Sky Harbor Airport

<http://phoenix.gov/skyharborairport>

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 Options



800-331-1600

www.avis.com

Discount Code: A198399



800-736-8222

www.enterprise.com

Discount Code: 50C0395 Group Number: WMS

Reservations can be booked online by entering account number or through our airport locations or at the Hyatt Downtown Phoenix location.



800-654-2240

www.hertz.com

Meeting CV Code: 019D0009

SuperShuttle Shared-Ride Van Service To and From Airport

www.supershuttle.com

+1 602- 244-9000

WM2010 Discount code: **57BN3**

\$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. Call at least 24 hours in advance of your departure time. Reservation agents will suggest pick up time from your hotel.

Metro Light Rail Services

www.valleymetro.org

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.

METRO light rail and Valley Metro bus share the same fare system. An all-day pass for \$3.50 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 Hilton Suites: Thomas and Central Avenues.

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

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 Regency or Convention Center if requested before departure.

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

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.

Lunches

Monday and Tuesday lunches are ticketed events with programs while Wednesday lunch will be a casual lunch in the Exhibit Hall. These lunches are included with a full technical or individual day registration fee.

Exhibitors and Guests who would like to purchase a separate ticket to Monday and Tuesday lunches may do so for \$50 each or \$75 for both days at the Registration Desk. Add-on tickets will not be sold for Wednesday lunch.

Meal tickets are required for the lunches. Please remember to bring your ticket to every meal and be prepared to give it to the staff members at the entrance. Food orders cannot be changed as meal counts are guaranteed in advance. Special requests such as Vegetarian meals will be given tickets to give to your server for your special meal.

Please remember that meal tickets are non-refundable. Meals are not guaranteed to anyone arriving more than 20 minutes late to meal functions.

A list of local restaurants will be available, as well as cash food sales at the concession stands in the PCC.

Wednesday Exhibit Hall Lunch Coupon Added for WM2010!

For 2010, WMS has added a lunch for Wednesday in the Exhibit Hall and Marketplace from 11:30 AM – 1:30 PM so you have just a little more time to visit our great exhibitors and network. During that period, we will also announce the winners of the Exhibitors' giveaways and booth drawings.

Attendees with Full Technical Registration or the Wednesday One or Two Registration will receive coupons valid for lunch at one of the concession stands inside the Exhibit Hall. You'll have your choice of a salad, sandwich or bratwurst with all the fixin's.

If your registration category does not include lunches, you will also be able to purchase what you'd like at the concession stands.

Either way, you'll want to make sure you stay to hear if you've won any of the great prizes our exhibitors will be giving away at their booths.

Thank you to The Shaw Group for sponsoring the Wednesday Exhibit Hall Lunch!

PCC Food Court – 11 am–2 pm North Building

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 – opens at 7 am

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

Refreshment Breaks

Refreshments will be served Monday thru Thursday at 9:30 AM and Monday thru Wednesday at 2:30 PM in the Exhibit Hall at the PCC. Wednesday afternoon and Thursday morning refreshments will be served near the session rooms on the first floor.

Thank you to **Central Research Laboratories, MHF Services** and **PacTec, Inc.** for sponsoring the Refreshment Breaks.

Conference Proceedings

The conference proceedings are included with a full technical registration. Following the conclusion of the conference, *approximately June 2010*, attendees will be mailed a CD-ROM of the conference proceedings to the address listed on their registration materials.

Conference Evaluations

We value and appreciate your comments and suggestions. You will receive a conference evaluation via email on Friday, March 12th. All completed evaluations will be entered into a drawing to receive a \$500 certificate of savings towards the WM2011 Conference.

Lost and Found

Please visit the Registration Desk for any lost and found items during the conference.

"INSIGHT" Daily Conference Newsletter

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 first issue, Sunday/Monday, will be pre-stuffed in the attendee packets. Be sure to pick up your Tuesday and Wednesday/Thursday copies at the Registration Desk, Exhibit Hall and near the meeting rooms on the First Level of the PCC.

Linda Ulland, University of Minnesota and **Linda Lehman**, CH2M Hill Plateau Remediation Company are the Insight Editors and Contributing Editors are: **Mike Berriochoa**, Washington River Protection Solutions; **Lynette Bennett** and **Maren Disney**, CH2M Hill Plateau Remediation Company and **Todd Nelson**, Washington Closure Hanford. Email llehman@wmarizona.org with any updates during the conference.

UPS Store

P: +1 602-251-0135

The UPS Store located in the PCC offers office support and copy services Monday–Friday from 7:00 AM - 6:00 PM and Saturday from 8:00 AM - 1:00 PM.

Twitter and Facebook Updates

WM2010 will be online with updates throughout the conference. On Facebook, you can find the conference at WM Symposia.

And if you tweet, please post to our hash tag of #wmsym2010 so we can see all your Twitter comments.

Speaker and Co-Chair Check-In

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

Speakers who are not checked in at the Speaker's Breakfast 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, Level Three. 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.

A/V Presentation Support

To better provide assistance to last minute changes to PowerPoint presentations, we have provided a schedule for A/V assistance. Presenters should identify when assistance is available for their session. Memory sticks and CD's with PowerPoints may also be dropped off for uploading. The audio-visual support staff will be available to assist presenters with their presentations as listed below:

Date	Time	Open / Reserved	Sessions
Sunday, March 7	3:00 PM – 7:00 PM	Loading All PowerPoints	All 1 - 89
Monday, March 8	7:00 AM – 9:00 AM	Mon. AM Loading/ Transfer/Set-Up	Sessions 1- 10
	9:00 AM – 12:30 PM	Reserved for Monday PM	Sessions 11 -24
	12:30 PM – 2:00 PM	Monday PM Transfer/Set-Up	Sessions 11 – 24
	2:00 PM – 5:00 PM	Loading All PowerPoints	All 25 - 89
Tuesday, March 9	7:00 AM – 9:00 AM	Tuesday AM Transfer/Set-Up	Sessions 25 – 38
	9:00 AM – 12:30 PM	Tuesday PM Loading	Sessions 39 – 52
	12:30 PM – 2:00 PM	Tuesday PM Transfer/Set-Up	Sessions 39 – 52
	2:00 PM – 5:00 PM	Loading All PowerPoints	All 53 – 89
Wed., March 10	7:00 AM – 9:00 AM	Wednesday AM Transfer/Set-Up	Sessions 53 – 68
	9:00 AM – 12:30 PM	Wednesday PM Loading	Sessions 69 – 81
	12:30 PM – 2:00 PM	Wednesday PM Transfer/Set-Up	Sessions 69 – 81
	2:00 PM – 5:00 PM	Loading All PowerPoints	Sessions 82 – 89
Thurs., March 11	7:00 AM – 9:00 AM	Thursday Transfer/Set-Up	Sessions 82 - 89

Special Meetings, Training and Events

Saturday, March 6, 2010

Program Advisory Committee (PAC) Meeting 6:00 PM – 9:30 PM

This pre-conference meeting for PAC/IPAC Volunteers and their guests will be held at the Hyatt Regency Phoenix. Individual tracks may hold meetings at 5 pm before the formal meeting starts at 6 pm.

Sunday, March 7, 2010

Nuclear Manager Training Workshop 9:00 AM – 5:00 PM

This one-day workshop is aimed at new managers in the nuclear field. Topics covered will include engineering leadership, strategy development, performance tools, managing staff, managing risk, managing nuclear safety, and managing a project to successful completion.

The workshop is chaired and coordinated by Dr. Jas Devgun. This training is sponsored by the WM Symposia as a service to the nuclear community.

Registration fee of \$195.00 per person, see Registration Desk for onsite registration.

First Time WM Attendee Orientation

Join us for this open session to learn more about the WM Symposia and the annual WM conferences at 3:00 PM – 4:00 PM.

Student Assistant Training Session

Calling all Student Assistants! Be sure to attend our Training Session from 4:00 PM – 4:45 PM. We'll cover the basics of your job duties as an assistant and give you some time to meet other students to kick off your WM2010 conference experience.

WM2010 Opening Welcome Reception

A Welcome Reception officially opens the WM2010 Conference and Exhibition Hall from 5:00 PM – 8:00 PM. Come visit more than 175 exhibitors and meet new and old friends. If you received your name badge in the mail, you're good to go. If you registered after the Early Bird deadline or are one of our International guests, stop by the Registration Desk anytime after 1 PM and before the reception starts. Light hors d'oeuvres will be served.

Thank you to **Fluor** for sponsoring the Welcome Reception.

Monday, March 8, 2010

ASME Radwaste Systems Committee Meeting 7:30 AM – 11:00 AM

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

Any questions, please contact Mike Nolan at mike.nolan@moellerinc.com

WM2010 Plenary Session 8:00 AM – 10:00 AM

WM2010 will begin with a Plenary Session that will feature world leaders speaking on the pressing issues being faced by Waste Management in 2010 and beyond.

Join your fellow delegates for Continental Breakfast before the program begins on the Third Level of the PCC. Panelists include:



Dr. Ines Triay
Assistant Secretary
US DOE Environmental
Management



Dr. Wang Ju
Vice President, Beijing
Research Institute of
Uranium Geology;
Head, HLW Disposal
Program, China National
Nuclear Corporation



Bruce Stanski
President
Fluor Government Group

International Welcome Reception

Please join us for the International Welcome Reception in the Exhibit Hall from 4:30 PM - 6:00 PM. We are appreciative of our international delegates for their participation and contributions that make WM2010 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.

Student and Young Professionals Reception

All students, young professionals and conference attendees looking to meet and mingle with the next generation are welcome at the Student and Young Professionals Networking Reception from 6:00 PM - 7:30 PM, 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 9, 2010

International Forum on Sustainable Options for Uranium Production (IFSOU) 9:00 AM - 12:00 PM

Co-Chairs: **Michelle Rehmann**, WM Symposia
Rod Grebb, HER Creative Solutions, LLC

Fueling the fleet of new reactors expected with the nuclear renaissance is a parallel renaissance in uranium production. The International Forum on Sustainable Options for Uranium Production (IFSOU) is a network for members of industry, regulatory bodies and NGOs to discuss and implement steps to achieve more sustainable uranium production practices - and thereby avoid developing new legacy sites.

In keeping with the theme of WM2010 - *Improving the Future by Dealing with the Past* - this session of IFSOU will examine how legacy sites have affected the current economic, regulatory, and social conditions associated with primary uranium production.

Panelists will include **Larry Camper**, US NRC, and **Dr. Horst Monken-Fernandes**, IAEA, along with leaders from industry and regulatory bodies. The session will examine the current economic and global production activities for uranium production and the sustainable practices that are currently being implemented by industry and regulatory bodies.

All registrants interested in sustainability and uranium recovery are welcome to attend the IFSOU roundtable discussion on Tuesday at no additional charge.

Best of Arizona Reception in Exhibit Hall

Experience the Southwest at the Best of Arizona Reception from 4:30 PM to 6:00 PM. We'll highlight the state of Arizona, serving hors d'oeuvres from around this great state, and beverages including Margaritas.

Women of Waste Management Presentation and Reception

Women delegates - and anyone interested in opportunities for women in our industry - should attend the **Women of Waste Management Reception**.

Rebecca Schmidt, Director of Congressional Affairs for the US NRC, will be the featured speaker for the Women of Waste Management Presentation & Networking Reception. Her presentation will begin 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 from 6:00 PM - 7:30 PM.

Thank you to **Fluor** for sponsoring the Women in Waste Management Presentation & Reception.

Wednesday, March 10, 2010

Join us for an evening of networking, dinner and cowboys at **Rustler's Rooste**.

Included in a Full Technical Registration, additional tickets are available for \$75.00 per person and can be purchased until Tuesday afternoon at the Registration Desk. The event includes transportation, two drink tickets and all the food and dancing you desire.

Buses will pick up at the Hyatt Regency Phoenix at 6:00 PM and the event will begin with cocktails at 6:30 PM. Buses will return guests to the conference hotels (Hyatt & Wyndham) beginning at 8:30 pm. The last bus will depart Rustler's Rooste approximately 9:45 pm.

If you'd prefer to drive yourself to the event, you may pick up directions at the Registration Desk.

For more information on Rustler's Rooste, visit www.rustlersrooste.com.

Thursday, March 11, 2010

Featured Closing Session 82 - The Nuclear Renaissance 8:30 AM – 10:30 PM

This session is focused on updating the progress being made on considering applications for new nuclear power plants under 10 CFR Part 52, a rule which NRC promulgated over 20 years ago at a time when no new nuclear power plants were even being considered in the US. Little interest was shown in the specifics outside the NRC except for the forerunner organization to the NEI, the Atomic Industrial Forum. Nuclear power detractors in Congress showed almost no interest as did those institutions which had normally been against constructing and operating nuclear power plants. Now over the past four years there has been a significant resurgence in the move towards building and operating new nuclear power plants in this country and a number of commitments have either been made or are on the verge of being made to construct new plants. This session is focused on how well the new rule is working to ensure that safe and economical new plants will be constructed to meet the nation's growing, clean electrical energy supply needs.

The panel will include:

Steve Burns, General Counsel, US Nuclear Regulatory Commission. Mr. Burns was directly involved in formulating Part 52 as legal assistant to then Commissioner and later Chairman Ken Carr, who along with Chairman Lando Zech were primarily responsible for leading the development of Part 52. General Counsel Bill Parlor was also a leader in the process at that time. Steve Burns has presided over the resurgence of new plant applications using Part 52 in his role as Deputy General Counsel and now as General Counsel and will provide a unique view of just how well the new rule is working from the NRC's point of view.

Bob Evans, Vice President, Enercon Utility Services has led the preparation of a significant number of the new applications for several clients and will provide his view on how Part 52 is working from the owner/operator/licensee's perspective.

Jim Little, Senior Vice President, Nuclear Energy Program, URS Power Group, who is a veteran of the nuclear power industry going back to his Westinghouse days will share his vision on the prospects for new nuclear plants in the US.

Ed Helminski, President, Exchange Monitor Publications, Inc., well known expert in the national and international nuclear arena, will provide an overview of the prospects for new plants in the US

and the acceptance of them by Americans as a part of our electricity supply future.

The panel will be co-chaired by **Jim Gallagher**, a pioneer in the early design and construction of pressurized water power reactors and **John Bradburne** who formulated the strategy at NRC which led to the promulgation of Part 52.

WM2011 Program Advisory Committee (PAC) Meeting and Luncheon 12:00 PM – 3:00 PM

This conference wrap-up and planning lunch meeting will be held at the PCC on Level One.

Radioactive Waste Packaging, Transportation, and Disposal Workshop 8:00 AM – 5:00 PM Thursday and Friday

This training workshop covers radioactive material shipments, including typical decommissioning mixed waste. The workshop is designed to provide students with a detailed understanding of 49 CFR, focusing on the specific problems associated with radiological waste. The instruction is based on the requirements of DOT, EPA, DOE, and NRC. Direct trainee participation is required.

The instruction of this course will include highway and rail transport, with greater emphasis on highway. This training is offered to comply with the "Hazmat Employee", general and function specific requirements of 49 CFR 172 Subpart H.

Participants will receive a certificate and copies of training materials, including a copy of 49 CFR parts 100 to 185 and various shipper toolbox materials. Training is conducted under a program requiring self-study, classroom instruction, and hands-on workshops preparing shipment paperwork.

The trainer for this course is **Paul Jones**, a 20-year veteran of shipping projects and trainer of shipping brokers for commercial, DOD, DOE, and NRC projects.

A certificate is provided to the student upon satisfactory completion of this training. To obtain a certificate, the trainee must complete a written exam with a score of 80% or higher.

This course is sponsored by WM Symposia as a service to the nuclear community. Registration Fee of \$545.00 per person, see Registration Desk for onsite registration.

Onsite Schedule Changes

Be sure to check the daily Insight Newsletter, WMS Facebook page and Twitter account for updates and changes.



Contracting and Opportunities Sessions

For WM2010, five contracting sessions are scheduled from Tuesday – Thursday describing upcoming opportunities in the waste management industry. The final session is a Contracting Workshop focusing on US Federal procurements.

Please Note: these sessions are open to all attendees including Exhibitors who may attend at no additional cost.

Panel Session 40 Contracting Opportunities in the UK with the Nuclear Decommissioning Authority (NDA) Tuesday - 1:30 PM - 3:15 PM

This panel will focus on the opportunities at the NDA sites in the United Kingdom (UK). The panel will consist of representatives of the NDA and the main M&O Contractors currently running the sites. The NDA representatives will outline the forward program of competitions and the Site License Companies will present their procurement plans giving the audience the opportunity for further discussion.

Panel Session 53 US DOE Procurement and Contracting Opportunities Wednesday - 8:30 AM - 10:15 AM

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. Senior DOE Contracting Officials will share their visions.

This panel compliments Panel 54 which focuses on US DOE *Contractor's* Procurement and Contracting activities.

Panel Session 54 US DOE Contractor's Procurement and Contracting Opportunities Wednesday - 10:15 AM - 12:00 PM

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. 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: decontamination and decommissioning 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 53 which focuses on contracting activity directly with the US DOE.

Panel Session 69 Panel/Oral: Developments in the American Recovery and Reinvestment Act (ARRA) Wednesday - 1:30 PM - 5:00 PM

This combined Panel and Paper Session will focus on the ARRA lessons learned after one year of implementation. Perspectives from both government and industry officials will be given on funds distribution, contracting mechanisms, accomplishments and future activities.

This session compliments Panels 53 and 54 which focus on US DOE and Contractor's Procurement and Contracting activities.

Panel Session 83 US Federal Government Contract "Capture" Workshop Thursday - 8:30 AM - 12:00 PM

This workshop focuses 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.

This workshop will provide professionals with a better understanding of the tactical and strategic management processes involved in the overall effort of "CAPTURE".

Scholarships, Honors and Awards

In keeping with the WMS' mission of providing education and opportunity, the following awards and scholarships will be presented during the Tuesday Honors and Awards Luncheon beginning at 12 PM on the Third Level of the PCC.

This luncheon is included in the Full Technical, Tuesday Only; Monday/Tuesday and Tuesday/Wednesday registration fees. Please be sure to bring your lunch ticket. Add-on tickets are available for Exhibitors and Guests, please see the Registration Desk to purchase.

Roy G. Post Foundation Scholarships

These scholarships are awarded in memory of Dr. Roy G. Post. The Scholarships and the Foundation carry on Dr. Post's vision of education in this field and honor the Founder of the annual Waste Management Conference.

Scholarships will be presented to:

Omar Al-Qudah, *University of Texas – El Paso*,

Kevin Arpin, *Kansas State University*,

Braden Goddard, *Texas A&M University*,

Christina J. Leggett, *University of California – Berkeley*,

Jessica M. O'Brien, *University of Ontario, Institute of Technology*,

Hayes F. Stripling, IV, *Texas A&M University*,

Thea R. Tadlock, *Missouri University of Science & Technology*, and

Jamie L. Warburton, *University of Nevada – Las Vegas*.

WM Symposia and James A. Glasgow Scholarship at the University of Arizona Law School

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.

David Houston and **Priyanka Sundareshan** received the scholarship for the 2008/2009 academic year. Mr. Houston is in his third year and Ms. Sundareshan is a second year student.

Best Oral Presentation Winners 2009

Best Oral Presentation/Paper

"*Shipment of Spent Nuclear Fuel from the Nuclear Research Institute Rez Plc, Czech Republic to the Russian Federation for Reprocessing*"
Presented by **Josef Podlaha**, *Nuclear Research Institute Rez PLC (Czech Republic)*. Session 48, Abstract 9422. (Session Sponsor: Alexander Thrower).

Honorable Mention - Oral Presentation/Paper

"*Characterization of Solids in Residual Wastes from Single Shell Tanks at the Hanford Site, Washington, USA*"
Presented by **Kenneth Krupka, Kirk Cantrell, Todd Schaef, Bruce Arey, William Deutsch, Michael Lindberg**, *PNNL*; **Steve Heald**, *ANL (USA)*. Session 20, Abstract 9277 (Session Sponsor: Jeffery Lyon).

Best Poster Winners 2009

Best Poster Presentation/Paper

"*Decision Support Tool for Prioritization of Surveillance and Maintenance Investment*"
Paper 9342, Session 67E, **Leydi Velez**, (DOE Fellow), *Florida International University*; **Thomas Conley**, *UT – Battelle LLC/ORNL (USA)*.

Honorable Mention– Poster Presentation/Paper

"*Meteor Burst Remote Monitoring System Deployment at US DOE Hanford*"
Paper 9375, Session 50C. **Andrea Hart, Jack Joyce**, *MSE Technology Applications, Inc*; **Andy Ward, Chris Strickland**, *PNNL (USA)*.

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 2010 WMS Program Advisory Committee Award will be presented to **Linda Ulland**, *University of Minnesota*.

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).

The 2010 Sarge Ozker Award will be presented to **Tom Snyder**.

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.

The 2010 WMS Lifetime Achievement Award, sponsored by Sandia National Laboratories, will be presented to **Leif G. Eriksson, PG**.

WM2011 Exhibition and Marketplace

The WM2011 Conference will be held at the Phoenix Convention Center West Building February 27 – March 3, 2011 with approximately the same layout.

Many of our exhibitors are long-time supporters of the WMS Conferences. Returning exhibitors are granted first right of refusal for the same booth location and reservations are taken onsite at the conference.

An initial deposit to hold the same booth location and reserve the Early Bird Rate of \$2,995 is due by June 15, 2010. If a deposit is not received, booths are returned to inventory and open sell for new exhibitors will begin July 19, 2010.

For more information on exhibiting, please visit www.wmsym.org – Exhibitors tab.

You may also contact WM Symposia at 520-696-0399 or by email at exhibits@wmarizona.org.



The Roy G. Post Foundation

Non-Profit Organization Dedicated to Education in the Safe Management of Nuclear Materials

Post Professional Opportunities Activities

Jobs and Internships

- Job Placement and Internship Postings

Student Support

- Stipends for Student Assistants
- Complimentary Student Registration for competing in the Student Poster Competition
- Cash prize for winning Student Poster in Session 24
- Complimentary student hotel accommodations.

Networking

- Students and Young Professionals Networking Reception on Monday, March 8th
- International Youth Nuclear Congress/Young Professionals Roundtable.

Career Growth for Women

- Women of Waste Management Presentation featuring Rebecca Schmidt of the US NRC and Networking Reception on Tuesday, March 9th.

For more information on the Roy G. Post Foundation, please visit www.roygpost.org.

Guest Program and Tours

Guest Program Receptions

New for WM2010! All guests are invited to gather each morning – Monday thru Thursday – at 8:30 AM in the same room as the Speaker & Co-Chair Breakfast. This room is on the third level of the PCC on Mon.-Wed, and on the first level of the PCC on Thursday. We'll set aside an area for you to enjoy breakfast before heading out to a tour or on your own for a day of exploring the Valley of the Sun.

Stop by to see old friends and meet new from around the world. We'll have information available from the Phoenix Convention & Visitors Bureau to help you plan your day.

Important Tour Information

Pre-registration for tours is recommended, you may register onsite if space is still available. There may be additional charges for onsite registrations.

All tours depart from the lobby of the Hyatt Regency Phoenix. Boarding time is 15 minutes prior to scheduled departure. Be sure to pack a jacket, hat, sunscreen and your camera for the outside events.

The Guest Program is organized by WMS and provided by Detours of Arizona, Take a Hike Arizona and other vendors. WM Symposia reserves the right to cancel any tour not reaching the eight person minimum.

Saturday March 6, 2010

Grand Canyon, Sedona & the Navajo Nation
7:00 AM – 8:00 PM **\$125.00/pp**

The day begins with a scenic drive through the Sonoran Desert to Sedona. Next, we'll pass through Oak Creek Canyon, a scenic byway of red walled canyons to emerge in a Ponderosa Forest.

At the South Rim of the Grand Canyon National Park, guests will enjoy a three-hour guided tour and an opportunity to walk the rim, shop, have lunch, or just relax with a view. Returning to Phoenix from the canyon, we will enjoy views of the Navajo Nation and Painted Desert, with a stop at an authentic Navajo Trading Post.

Tour includes lunch, national park entry fees and bottled water.

Sunday March 7, 2010

Sonoran Desert Guided Hike

12:00 PM – 4:00 PM

\$50.00/pp

Venture into the world's most diverse desert and discover winding trails, hidden canyons and beautiful vistas, with the company of a local expert.

This six mile hike is considered a *Moderate Hike*. This excursion is on a trail that is a bit more remote and as such has no restroom facilities. However, we'll make a rest stops before and after the hike. It has some nice elevation gain which takes us into a Hidden Valley, where guests will discover ancient petroglyphs.

Healthy snacks, bottled water and lunch will be provided along with the use of the backpacks, trekking poles, all entry and permit fees and a First Aid / CPR Certified Guide. Hikers will be required to sign a Waiver of Liability.

Monday March 8 – Wednesday, March 10

- Scottsdale - Phoenix City Highlights Tour
- Apache Trail Exploration
- Piastewa Peak Guided Hike

Cancelled due to lack of minimum registrants.

Wednesday, March 10, 2010

Arizona Mills Outlet

9:30 AM – 3:30 PM

\$20.00/pp

Take advantage of this wonderful opportunity to tackle the famous Arizona Mills Outlet Shopping Center. For a complete list of available stores, visit the mall's website at www.arizonamills.com.

Shuttle van takes you door-to-door leaving from the Hyatt Regency Phoenix. Shuttle departures are scheduled 9:30 am, 10:30 am, 11:30 am and departures from the Outlet at 1:30 pm, 2:30 pm and the final return at 3:30 pm.

Thursday, March 11, 2010

Sedona & Native American Ruins

7:00 AM – 5:30 PM

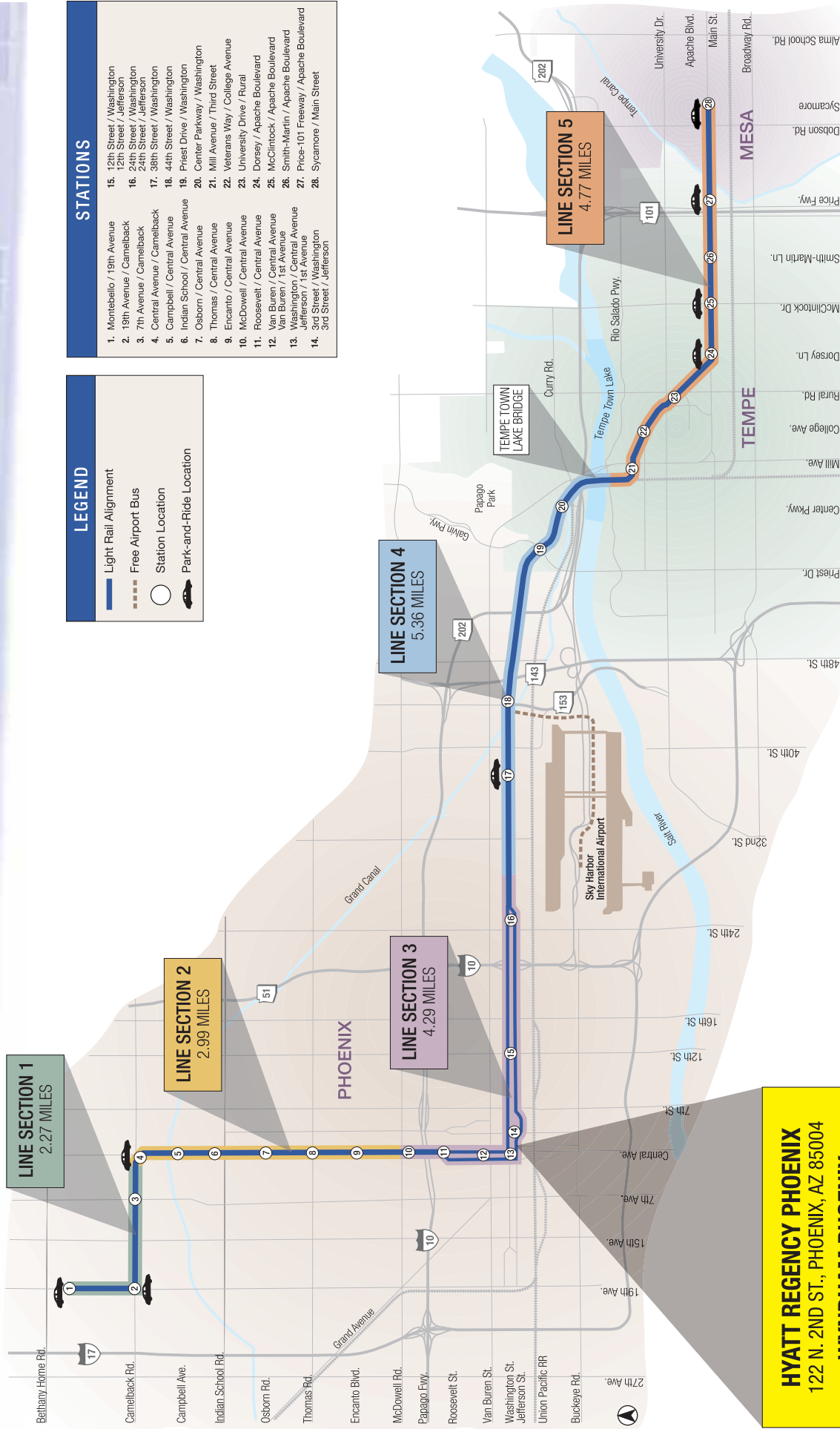
\$95.00/pp

You'll first have the chance to explore the ancient Sinaguan Indian ruins of the Montezuma Castle, that existed along a busy trade route over 1,000 years ago. Our tour will spend approximately 3.5 hours in Sedona, where you can explore on foot, visit galleries and shops, or get a psychic reading.

Tour includes lunch, national monument entry fees and bottled water.



METRO LIGHT RAIL LINE



LEGEND

- Light Rail Alignment
- Free Airport Bus
- Station Location
- Park-and-Ride Location

STATIONS

1. Montebello / 19th Avenue
2. 19th Avenue / Camelback
3. 7th Avenue / Camelback
4. Central Avenue / Camelback
5. Campbell / Central Avenue
6. Indian School / Central Avenue
7. Osborn / Central Avenue
8. Thomas / Central Avenue
9. Encanto / Central Avenue
10. McDowell / Central Avenue
11. Roosevelt / Central Avenue
12. Van Buren / Central Avenue
13. Washington / Central Avenue
14. 3rd Street / Jefferson
15. 12th Street / Washington
16. 14th Street / Jefferson
17. 24th Street / Jefferson
18. 38th Street / Washington
19. 44th Street / Washington
20. Center Parkway / Washington
21. Mill Avenue / Third Street
22. Veterans Way / College Avenue
23. University Drive / Rural
24. Dorsey / Apache Boulevard
25. McClintock / Apache Boulevard
26. Smith-Martin / Apache Boulevard
27. Price-101 Freeway / Apache Boulevard
28. Sycamore / Main Street

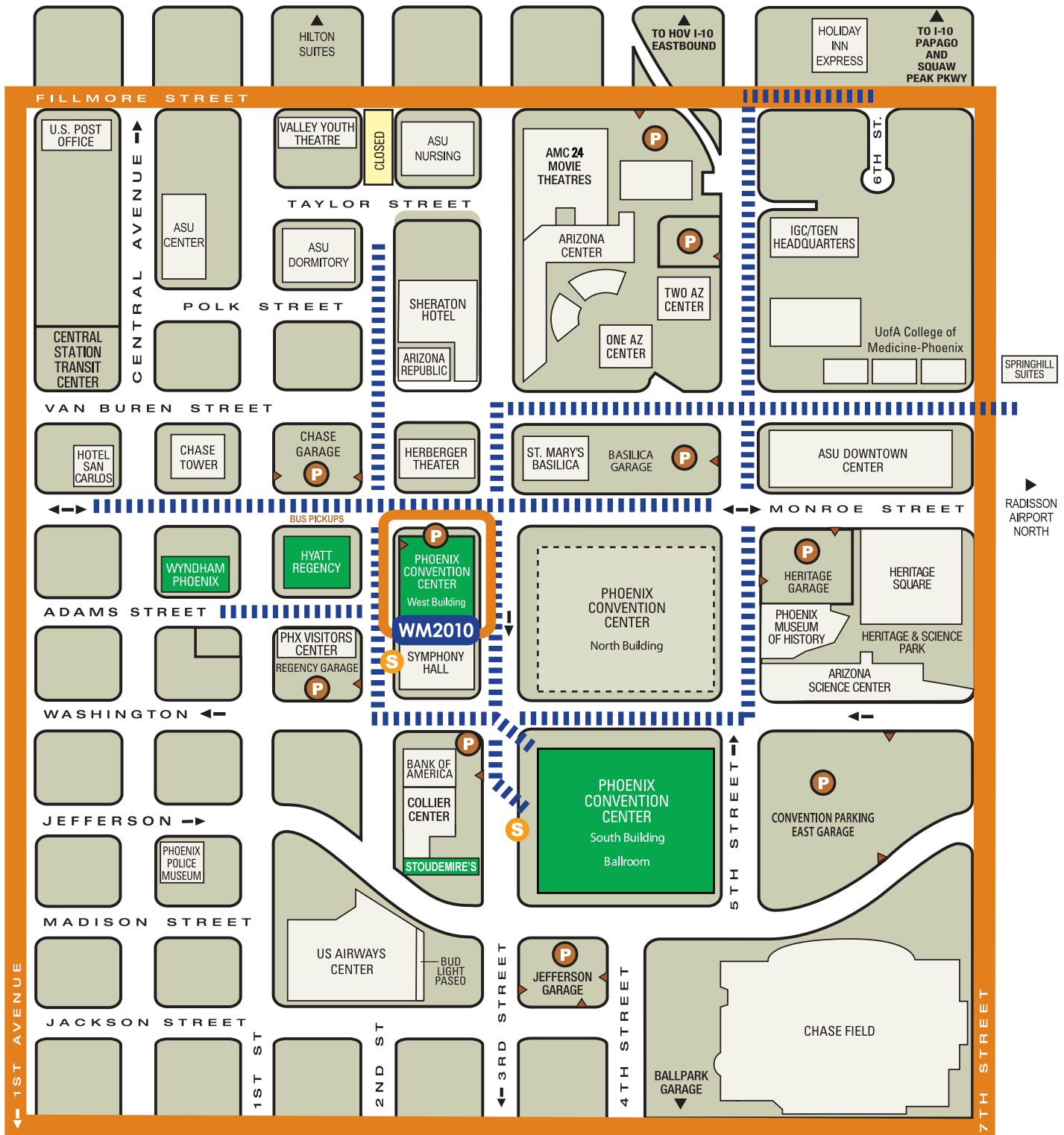
HYATT REGENCY PHOENIX
 122 N. 2ND ST., PHOENIX, AZ 85004

WYNDHAM PHOENIX
 50 E. ADAMS ST., PHOENIX, AZ 85004

PHOENIX CONVENTION CENTER
 111 N. 3RD ST., PHOENIX, AZ 85004

PHOENIX CONVENTION CENTER

Walking & Parking Guide



WM2010 HOTELS

- Hyatt Regency Phoenix • 122 North 2nd Street • Phoenix, AZ 85004 • (602) 252-1234
- Wyndham Phoenix • 50 East Adams Street, Phoenix, AZ • (602) 333-0000
- Holiday Inn Express • 620 North 6th Street • Phoenix, AZ • (602) 452-2020
- Radisson Hotel Phoenix Airport North • 427 North 44th Street • Phoenix AZ 85008 • (602) 220-4400
- Hilton Suites • 10 East Thomas Road • Phoenix, AZ 85012 • (602) 222-1111

LEGEND

P Parking Garages

▶ Parking Garage Entrance

WM2010 PHOENIX

March 7-10, 2010

Phoenix Convention Center West Building Halls 1, 2 and 3



HALL 1

HALL 2

HALL 3

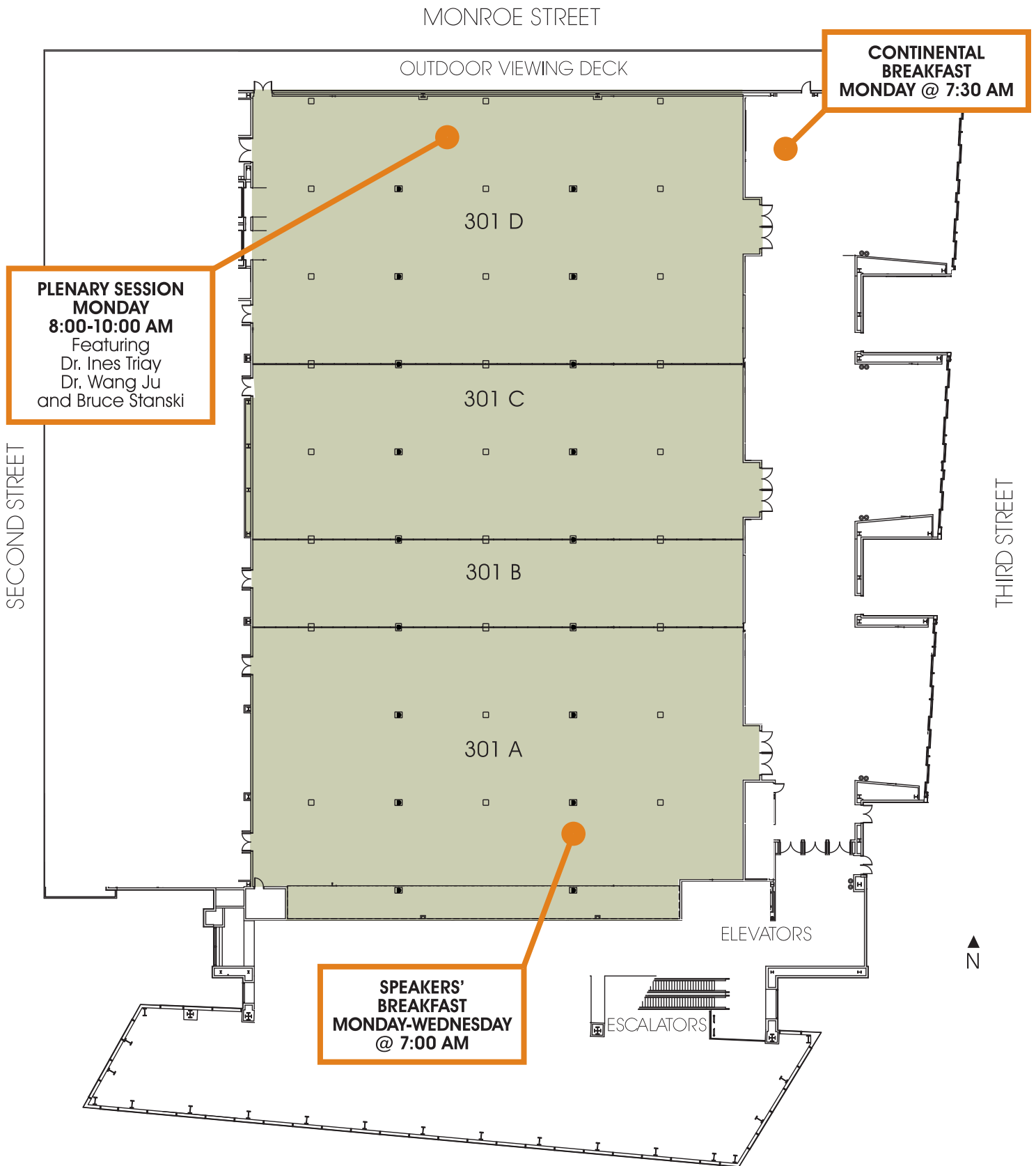


WM2010 Registration

Student Posterboards
Monday 1:30 pm - 5 pm

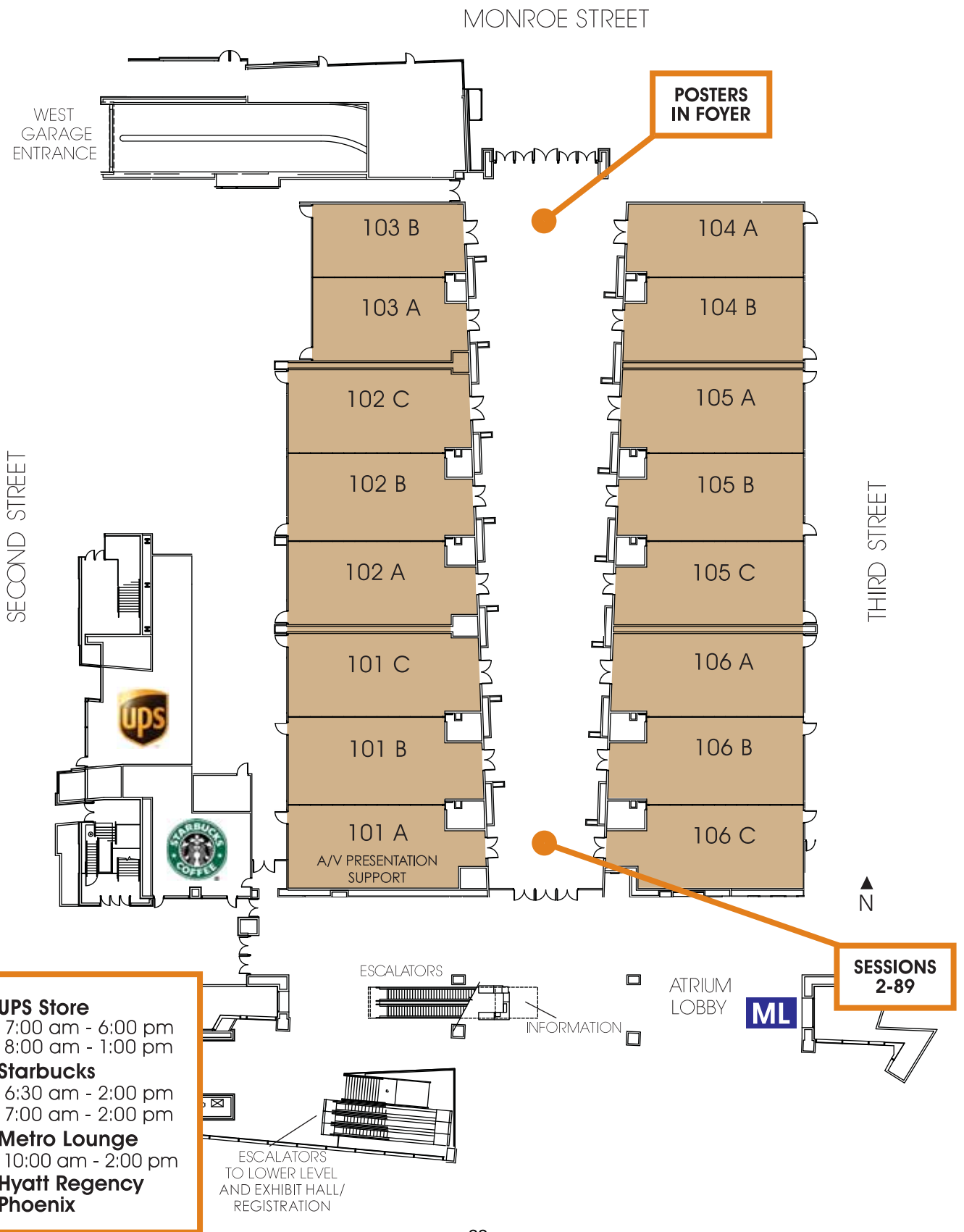
PHOENIX CONVENTION CENTER

West Building | West Ballroom | 300 Level



PHOENIX CONVENTION CENTER

West Building | 100 Level | Street Level



UPS Store
 M-F 7:00 am - 6:00 pm
 Sat. 8:00 am - 1:00 pm

Starbucks
 M-F 6:30 am - 2:00 pm
 Sat. 7:00 am - 2:00 pm

ML Metro Lounge
 M-F 10:00 am - 2:00 pm

Hyatt Regency Phoenix

WM2010 Common Acronyms List

** Country acronyms are US, unless noted otherwise*

AEA Atomic Energy Agency/Atomic Energy Act of 1954	H&S Health and Safety	NTS Nevada Test Site
AECL Atomic Energy of Canada Ltd	HEPA High Efficiency Particulate Air	NWTRB Nuclear Waste Technical Review Board
AFR Away-From-Reactor Storage	HEU Highly Enriched Uranium	NWPA Nuclear Waste Policy Act of 1982
ALARA As Low As Reasonably Achievable	HLW High Level Radioactive Waste	NWPAA Nuclear Waste Policy Amendments Act of 1987
ANDRA Agence Nationale pour la Gestion des Déchets Radioactifs (France)	IAEA International Atomic Energy Agency (Austria)	OCRWM Office of Civilian Radioactive Waste Management
ANL Argonne National Laboratory	ICRP International Commission on Radiological Protection	OECD Organization for Economic Cooperation & Development (France)
ANS American Nuclear Society	IFSOUP International Forum on Sustainable Options for Uranium Production	ORNL Oak Ridge National Laboratory
ARM Accelerator-Produced Radioactive Material	ILW Intermediate Level Radioactive Waste	PNNL Pacific Northwest National Lab
ARRA – American Recovery and Reinvestment Act of 2009	INL Idaho National Laboratory	PCC Phoenix Convention Center
ASME American Society of Mechanical Engineers	IPAC International Program Advisory Committee	PRA Probabilistic Risk Analysis
BNL Brookhaven National Laboratory	IPSN Institute de Protection et de Surete (France)	PWR Pressurized Water Reactor
BWR Boiling Water Reactor	JAEA Japan Atomic Energy Agency (Japan)	QA Quality Assurance
CE&T Public Communication, Participation, Education & Training	KAERI Korea Atomic Energy Research Institute (Korea)	QAPP Quality Assurance Program Plan
CEA Commissariat a l’Energie Atomique (France)	LAW Low-Activity Radioactive Waste	QC Quality Control
CERCLA Comprehensive Environmental Response, Compensation and Liability Act	LANL Los Alamos National Laboratory	R&D Research and Development
CFR Code of Federal Regulations	LBNL Lawrence Berkeley National Lab	RCRA Resource Conservation and Recovery Act of 1976
CH-TRU Contact-Handled Transuranic Radioactive Waste	LEU Low Enriched Uranium	RDD Radiological Dispersion Devices
Ci Curies	LL/ILW Low- and Intermediate-Level Radioactive Waste	RH-TRU Remote-Handled Transuranic Radioactive Waste
CPP Crosscutting Policies & Programs	LLNL Lawrence Livermore National Lab	ROC Republic of China
D&D Decontamination & Decommissioning	LLRW/LLW Low Level Radioactive Waste	RPV Reactor Pressure Vessel
DAW Dry Active Waste	LSA Low Specific Radioactive Activity	SKB Swedish Nuclear Fuel and Waste Management Company
DCS Dry Container Storage	LWR Light-Water Reactor	SNF Spent Nuclear Fuel
DNFSB Defense Nuclear Facility Safety Board	M&I Management & Integration	SNL Sandia National Laboratories
DOD United States Dept of Defense	M&O Management & Operation	SNM Special Nuclear Material
DOE United States Dept of Energy	MRS Monitored Retrievable Storage	SRS Savannah River Site
DOT United States Dept of Transportation	MW Mixed Hazardous and Radioactive Wastes	SRW Solid Radioactive Waste
DWPF Defense Waste Processing Facility	NAGRA National Cooperative for the Disposal of Radioactive Waste (Switzerland)	SS&S Security, Safety, & Safeguards
EC European Commission	NCRP National Council on Radiation Protection	TENORM Technologically-Enhanced Naturally Occurring Radioactive Material
EDF Electricite’ de France (France)	NDA Non-Detectable Activity or Nuclear Decommissioning Authority	TRU Transuranic (elements with atomic number > than 92)
EIS Environmental Impact Statement	NDAA National Defense Authorization Act of 2005	TRUPACT Transuranic Waste Package Transporter
EM Environmental Management	NEA Nuclear Energy Agency (France)	UK United Kingdom
ENEA National Agency for New Technologies, Energy and Environment (Italy)	NEI Nuclear Energy Institute	UKAEA UK Atomic Energy Authority
ENVIRONET- IAEA Network on Environmental Management & Remediation	NEPA National Environmental Policy Act of 1969	US/USA United States of America
EPA US Environmental Protection Agency	NFDI National Facility Disposition Initiative	US ACE US Army Corps of Engineers
EPRI Electric Power Research Institute	NNL- National Nuclear Laboratory (UK)	UNF Used Nuclear Fuel
ER Environmental Remediation	NNSA National Nuclear Security Admin.	WAC Waste Acceptance Criteria
ES&H Environment, Safety & Health	NORM Naturally Occurring Radioactive Material	WD Waste Determination
FUSRAP Formerly Utilized Sites Remedial Action Program	NPP Nuclear Power Plant	WERC Waste-Management Education and Research Consortium
GAO United States Government Accountability Office	NRC United States Nuclear Regulatory Commission	WIPP Waste Isolation Pilot Plant
GIS Geographical Information System		WIR Waste Incidental to Reprocessing
GNEP Global Nuclear Energy Partnership		WM Waste Management
GTCC Greater Than Class C Low-Level Radioactive Waste		WRAP Waste Receiving and Processing
		WS Wet Storage
		WVDP West Valley Demonstration Project
		YM Yucca Mountain

Technical Program Schedule at a Glance

Session #	Annotated Session Titles (for full session titles, please see individual listing)	Time	Room	1: Crosscutting	2: HLW / SNF / TRU	3: L/ILW, NORM	4: Nuclear Power Pl.	5: Packag./Trans.	6: D&D	7: Environ. Rem.	8: Commun., E & T	9: Safety/Security
Monday Morning, March 8			WM Subject Tracks for Reference									
1	WM2010 Plenary Session	8:00	301 C	X								
2	Panel: Hot Topics in US DOE Environmental Management	10:00	102 A	X								
3	Panel: Worldwide Perspectives on WM Issues	10:00	105 AB	X								
4	Panel: The IAEA EM & ER Network - ENVIRONET	10:00	104 AB							X		
5	Domestic & Intl Topics in Packaging, Design & Testing	10:00	101 B					X				
6	HLW and SNF - Processes, Technologies and Operations	10:00	101 C		X							
7	Waste Cert., Acceptance/Disposal for LLW, ILW, MW	10:00	105 C			X						
8	Accelerated Deactivation/Decommissioning of Facilities	10:00	106 A						X			
9	US DOE, Site Specific & Citizen Advisory Boards (CABs)	10:00	106 B								X	
10	Safeguards & Consequence Mgmt - New Reactors to RDD	10:00	106 C									X
Monday Afternoon, March 8												
11	Panel: US DOE Featured Site: Hanford	1:30	102 A	X								
12	Panel: Hot Topics/Issues in US Commercial LLW	1:30	105 AB			X						
13	Selected Key Topics in US Commercial LLW Management	3:15	105 AB			X						
14	Panel: Yucca Mountain – What's Next? & Intl SNF Mgmt	1:30	104 AB		X							
15	Operating Experience and Progress of HLW and SNF	1:30	101 B		X							
16	Application of Innovative D&D Technologies	1:30	101 C						X			
17	ER Post Closure Challenges/Long Term Stewardship/LM	1:30	105 C							X		
18	Waste Characterization - Instrumental Solutions	1:30	106 A			X						
19	Communication of Technical Issues	1:30	106 B								X	
20	Panel: New Directions in Safety & Health	1:30	103 AB									X
21	Panel: Executive Leadership in a Strong Safety Culture	3:15	103 AB									X
22	Worldwide WM Regulatory/Oversight Crosscutting Prog.	1:30	106 C	X								
23	HLW, SNF, and Long-lived Alpha/TRU Waste - Posters	1:30	1st Floor		X							
24	Student Poster Competition: Industry Leaders of Tomorrow	1:30	Exh. Hall	X								
Tuesday Morning, March 9												
25	Panel: Emerging Issues with US DOE Prime Contractors	8:30	102 B	X								
26	DOE Small Sites Cleanup and Waste Management	8:30	106 C	X								
27	DOE Engineering & Technology in Reducing Risk in HLW	8:30	106 B		X							
28	Panel: Progress, Challenges & Future of ARRA	8:30	105 AB						X			
29	D&D of Nuclear Facilities (Non-Power/ Small Nuclear)	10:15	105 AB						X			
30	Status and Plans at the US DOE WIPP	8:30	106 A		X							
31	Operating Exp. in the Treatment/Storage of LLW, ILW	8:30	101 B			X						
32	Enviro. Rem. Progress- Closure of Contaminated Sites	8:30	101 C							X		
33	Transportation Risks and Capturing Lessons Learned	8:30	105 C					X				
34	Worldwide Mgmt of Spent and Disused Sealed Sources	8:30	104 AB									X
35	Panel: EFCOG Review of ARRA Est. of Waste Generation	10:15	104 AB									X
36	Panel: Graduating Students and New Engineers	8:30	103 AB								X	
37	Panel: Intl Youth Nuclear Congress/Young Professionals	10:15	103 AB								X	
38	Posters: LLW, ILW, MW, NORM and TENORM; NPP	8:30	1st Floor			X	X					
Tuesday Afternoon, March 9												
39	Panel: US DOE - Energy Facility Contractors (EFCOG)	1:30	102 B	X								
40	Panel: Contracting Opportunities in the UK with the NDA	1:30	105 AB	X								
41	Program Mgmt Improvements - Planning through Compl.	3:15	105 AB	X								
42	Perspectives of Radioactive WM –Challenges/Solutions	1:30	106 C	X								
43	Closure of Highly Radioactive Tanks/ Facilities	1:30	106 B		X							
44	Advanced Approaches Applied to Problematic TRU WM	1:30	106 A		X							
45	Programmatic/Reg./Statutory Issues for LLW, ILW	1:30	101 B			X						
46	D&D of US DOE Facilities	1:30	101 C						X			

Technical Program Schedule at a Glance

Session #	Annotated Session Titles (for full session titles, please see individual listing)	Time	Room	WM Subject Tracks for Reference									
				1: Crosscutting	2: HLW / SNF / TRU	3: L/ILW, NORM	4: Nuclear Power P.	5: Packag./Trans.	6: D&D	7: Environ. Rem.	8: Commun., E & T	9: Safety, S & S	
Tuesday Afternoon, March 9 continued				WM Subject Tracks for Reference									
47	US - FUSRAP and US Army Corp of Engineers Projects	1:30	105 C								X		
48	Panel: ER Projects Contributing to the IAEA -ENVIRONET	1:30	103 AB								X		
49	Lessons Learned in UK Enviro. Remediation Projects	3:15	103 AB								X		
50	Panel: NPP Waste Management - LLW Processor Issues	1:30	104 AB				X						
51	Panel: NPP Waste Management - LLW Disposal Issues	3:15	104 AB				X						
52	Posters: ER; Security, Safety & Safeguards; Comm.	1:30	1st Floor								X	X	X
Wednesday Morning, March 10													
53	Panel: US DOE Procurement and Contracting Opport.	8:30	102 B	X									
54	Panel: US DOE Contractor's Procurement/Contracting	10:15	102 B	X									
55	Panel: US Commercial LLW to Modify its Class for Disp.	8:30	105 AB			X							
56	Panel: Disposition of US DOE High-Activity Mixed Waste	10:15	105 AB			X							
57	Performance Assessment of Geological Disposal Systems	8:30	103 AB	X									
58	DOE Yucca Mtn Update: HLW/SNF Disposal	8:30	104 AB		X								
59	Global Advances in Repository Sciences and Engineering	10:15	104 AB		X								
60	Worldwide Technical Innovations in HLW Treatment	8:30	106 C		X								
61	Performance of Disposal Systems/Facilities for L/ILW	8:30	106 B			X							
62	Waste Optimization/Minimization During D&D	8:30	106 A						X				
63	Transport of Radioactive Materials--Operational & Analysis	10:15	106 A					X					
64	Technical Innovations in ER and Site Closure	8:30	101 B							X			
65	Groundwater Remediation Projects	8:30	101 C							X			
66	Reaching Out to Communities - International Experiences	8:30	105 C									X	
67	Building a Nuclear Workforce for the 21st Century	10:15	105 C									X	
68	Posters: Crosscutting Policies, Packaging & Transp.; D&D	8:30	1st Floor	X				X	X				
Wednesday Afternoon, March 10													
69	Panel: Developments in the ARRA	1:30	102 B	X									
70	Panel: The IAEA - ENVIRONET	1:30	105 AB								X		
71	D&D of Nuclear Power Plants	1:30	103 AB						X				
72	Innovative Field Monitoring for Env. Remediation	1:30	104 AB							X			
73	Vitrification Experience & Glass Characterization for HLW	1:30	106 C		X								
74	Challenges in Mixing Technologies for Waste Retrieval	1:30	106 B		X								
75	Disposal Systems/Facilities/ Sites for L/ILW & MW	1:30	106 A			X							
76	Emerging Treatment for L/ILW,, MW, NORM/TENORM	3:15	106 A			X							
77	New Generation of Uranium Recovery Facilities	1:30	105 C			X							
78	Nuclear Power Plant Liquid and Wet Waste	1:30	101 B				X						
79	Nuclear Power Plant Dry Waste	3:15	101 B				X						
80	Radioactive Material Pkging/Transportation Reg. Issues	1:30	101 C					X					
81	Posters: Emerging Issues and New Developments	1:30	1st Floor	X									
Thursday Morning, March 11													
82	Panel: New P. Plant Designs - the Nuclear Renaissance	8:30	102 B	X									
83	Panel: Federal Government Contract "Capture" Workshop	8:30	103 AB	X									
84	Innovative Liquid and Gas Crosscutting Filtration Systems	8:30	101 B	X									
85	Tribal Involvement, Public Participation, Technology	8:30	101 C									X	
86	TRU Small Qty Sites - the Consolidation Option at INL	8:30	106 C		X								
87	Non Instrumental Solutions	8:30	106 B			X							
88	Panel: EFCOG - Waste Management	8:30	106 A			X							
89	Panel: The IAEA Network on EM & Remediation	8:30	104 AB								X		

Subject to change, please check signage onsite at the conference.

March 8, Monday AM

Presenters and Session Volunteers are in **Bold**

Session 01

8:00 AM - 10:00 AM Room 301 C

Panel: WM2010 Symposium Plenary Session

Co-Chairs: James Gallagher, *Gallagher Consulting (USA)*; **Fred Sheil**, *Sellafield Ltd (United Kingdom)*
Sponsor: James Gallagher
Organizers: James Voss, Gary Benda
Panel Reporter: Linda Ulland

The WM2010 Plenary Session will feature speakers discussing the pressing issues facing Radioactive Waste Management in 2010 and beyond from around the world.

Plenary Speakers: Dr. Ines Triay, *Assistant Secretary for Environmental Management- US DOE*;
Dr. Wang Ju, *VP, Beijing Research Institute of Uranium Geology, Head, HLW Disposal Program, China National Nuclear Corporation*; and **Bruce A. Stanski**, *President of the Fluor Government Group*.

Session 02

10:00 AM - 12:00 PM Room 102 A

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: Leslie Jardine

This panel will feature senior US DOE managers speaking on the pressing issues facing the 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: Dae Chung, *Principal Deputy Assistant Secretary (DAS)*; **Meryl Sykes**, *Chief Business Officer, DOE EM*; **Frank Marcinowski**, *DAS Technical & Regulatory Support*; **Jack Surash**, *DAS Acquisition & Contract Management*; **Sandra Waisley**, *DAS Human Capital & Corporate Services, US DOE*.

Session 03

10:00 AM - 12:00 PM Room 105 AB

Panel: Worldwide Perspectives on Waste Management Issues

Co-Chairs: John Mathieson, *NDA (United Kingdom)*;
Mark Matthews, *Matthews, Inc. (USA)*
Sponsor & Panel Reporter: John Mathieson
Organizer: Mark Matthews

This panel will discuss the long-term management of radioactive waste from an international perspective, looking at how we deal with both legacy and new build wastes. High-level experts from around the world will give us their views on the challenges and potential solutions to issues on decommissioning, clean-up, and disposal for all waste types. Of particular interest will be how multi-national collaboration is assisting national programmes for dealing with waste.

We will hear short presentations from each panelist, which will then be followed by a moderated Q&A session with audience participation encouraged.

Panelists: Dr. Wang Ju, *VP, Beijing Research Institute of Uranium Geology, Head, HLW Disposal Program, Chinese National Nuclear Corporation*;
Christine Gelles, *Director, Office of Disposal Operations, US DOE EM*; **Mike D. Johnson**; *Executive Director, Waste & Effluent Disposition, Sellafield, Ltd*;
Prof. Volodymyr Tokarevsky, *Former Director, State Special Company Technocentre, Chornobyl, Ukraine*;
Carl Reinhold Bråkenhielm, *Swedish National Council for Nuclear Waste*; and **Dr. Dan Metlay**, *Senior Professional Staff, US Nuclear Waste Technical Review Board*.

Session 04

10:00 AM - 12:00 PM Room 104 AB

Panel: How Can Networks Improve the Implementation of ER Projects? The IAEA Network on Environmental Management and Remediation -ENVIRONET

Co-Chairs: Vince Adams, *US DOE (USA)*;
Peter Booth, *National Nuclear Laboratory, (United Kingdom)*
Sponsor: Donald Goebel
Organizers: Horst Monken Fernandes, Michelle Rehmann
Panel Reporter: Kim Johnson

This panel introduces the IAEA's Network on Environmental Management and Remediation - ENVIRONET and is the opening session for the related IAEA sessions throughout the week. The panel will discuss how Networks can improve the implementation and results of ER Projects.

Panelists: Horst Monken Fernandes, *EVIRONET, IAEA (Austria)*; Leo van Velzen, *EURSSEM, NRG (Netherlands)*; Peter Booth, *SAFEGROUND, National Nuclear Laboratory (UK)*; Michelle Rehmann, *IFSOUP (USA)*; and Abel Gonzalez, *REGULATORS FORUM, Argentine Nuclear Regulatory Authority (Argentina)*.

Session 05

10:00 AM - 12:00 PM Room 101 B

Worldwide Topics in Packaging Design and Testing

Co-Chairs: Richard Yoshimura, *Sandia National Laboratory (USA)*; Olaf Oldiges, *GNS mbH (Germany)*

Sponsor & Paper Reviewer: Richard Yoshimura
Organizers: Richard Yoshimura, Paul Jones

10:05 Scale Testing of Battelle Energy Alliance (BEA) Research Reactor Cask (BRR) in Support of Nuclear Regulatory Commission (NRC) Licensing - 10459

Charles Temus, *AREVA Federal Services, LLC (USA)*

10:30 Recent Experiences in Mechanical Design Assessment of Spent Fuel and HLW Casks by Competent Authority in Germany - 10093

Frank Wille, *Bernhard Droste, Karsten Müller, Uwe Zencker, BAM Federal Institute for Materials Research and Testing (Germany)*

10:55 Drop and Fire Testing of Spent Fuel and HLW Transport Casks at "BAM Test Site Technical Safety" - 10079

Bernhard Droste, *Karsten Müller, Thomas Quercetti, Andre Musloff, BAM Federal Institute of Materials Research and Testing (Germany)*

11:20 Static and Dynamic Calculation Approaches for Mechanical Design Assessment of Type B Packages for Radioactive Material Transport - 10193

Steffen Komann, *Martin Neumann, Viktor Ballheimer, Frank Wille, Mike Weber, Linan Qiao, Bernhard Droste, BAM Federal Institute for Materials Research and Testing (Germany)*

Session 06

10:00 AM - 12:00 PM Room 101 C

HLW and SNF - Processes, Technologies and Operations

Co-Chairs: James Buelt, *Pacific Northwest National Laboratory (USA)*; Bernard Vigreux, *French Nuclear Energy Society (France)*

Sponsor & Paper Reviewer: Tom Brouns
Organizers: Tom Brouns, Harry Babad

10:05 Updating the Regulatory Framework for Spent Nuclear Fuel Reprocessing - 10127

Thomas Hiltz, *Allen Croff, US NRC*; Raymond Wymer, *Oak Ridge National Laboratory (retired) (USA)*

10:30 Signature Research on Spent Fuel and Nuclear Materials at the National Nuclear Laboratory, United Kingdom - 10361

Zara Banfield, *Chris Rhodes, Matt Clough, National Nuclear Laboratory (United Kingdom)*

10:55 Completing the Resolution of Technical Issues Identified by Two Major Reviews of the Waste Treatment Plant - 10474

Garth Duncan, *Bechtel National, Inc.*; Richard Edwards, *URS - Washington Group, Inc.*; Walter Tamosaitis, *URS Washington Division (USA)*

11:20 Optimization of Spent Fuel Direct Disposal Technology for a Geological Repository in Rock Salt in Germany - 10504

Bernt Haverkamp, *Enrique Biurrun, Wilhelm Bollingerfehr, Wolfgang Filbert, DBE TECHNOLOGY GmbH (Germany)*; Reinhold Graf, *Gesellschaft für Nuclear-Service mbH (Germany)*

Session 07

10:00 AM - 12:00 PM Room 105 C

Waste Certification, Acceptance and Disposal for LLW, ILW, and MW

Co-Chairs: Lance Mezga, *Oak Ridge National Laboratory*; Keith Tucker, *Portage Environmental (USA)*

Sponsor & Paper Reviewer: Kenneth Guay
Organizers: Michelle Rehmann, Paul Macbeth

10:05 Measurements Taken in Support of Qualification of Processing Savannah River Site Low-Level Liquid Waste into Saltstone - 10160

Marissa Reigel, **Ned Bibler**, *Alex Cozzi, Cecilia DiPrete, Savannah River National Laboratory*; Jeffrey Ray, *Aaron Staub, Savannah River Remediation, LLC (USA)*

10:30 Overview of Nevada Test Site Radioactive and Mixed Waste Disposal Operations - 10280

Jhon Carilli, *US DOE*; Susan Krenzien, *Navarro Research and Engineering, Inc.*; Patrick Arnold, *CH2M HILL - National Security Technologies*; Sydney Gordon, *National Security Technologies, LLC*; John Wrapp, *NSTec (USA)*

10:55 Nevada Test Site (NTS) Radioactive Waste Acceptance Program (RWAP) and the Disposal of Unique Waste Streams - 10332

Sydney Gordon, *Gregg Geisinger, Katie Tanaka, National Security Technologies, LLC*

Monday AM

11:20 Topical Aspects of Waste Container Approval for the Upcoming KONRAD Repository - 10012
Holger Völzke, Volker Noack, Manel Ellouz, BAM Federal Institute for Materials Research and Testing (Germany)

Session 08

10:00 AM - 12:00 PM **Room 106 A**

Accelerated Deactivation and Decommissioning of Facilities

Co-Chairs: Jas Devgun, Sargent & Lundy, LLC (USA); Maria Lindberg, Studsvik UK Ltd (United Kingdom)

Sponsor: Maria Lindberg

Organizers: Jas Devgun, Andrew Szilagyi

Paper Reviewer: Jas Devgun

10:05 Accelerating Decommissioning at Sellafield: A New Management Approach - 10052
Russell Mellor, Sellafield Ltd (United Kingdom)

10:30 Challenges to Planning for and Executing Successful Waste Management in a Complex Decommissioning Environment – A Sellafield Perspective - 10503
Helen Cassidy, Sellafield Ltd (United Kingdom)

10:55 Expedited Release Process for the Decommissioning of Sites with Low Residual Levels - 10152
Kenneth Duvall, N.E. Research; **Carol Berger**, Alan Duff, **Bill Thomas**, Integrated Environmental Management, Inc; **Eric Barbour**, USACE (USA)

11:20 Savannah River Site R-Reactor Disassembly Basin In-Situ Decommissioning - 10499
Christine Langton, Mike Serrato, Savannah River National Laboratory; **John Blankenship**, William Griffin, Savannah River Nuclear Solutions (USA)

Session 09

10:00 AM - 12:00 PM **Room 106 B**

US DOE Site Specific and Citizen Advisory Boards (CABs) - Public Involvement Makes a Difference

Co-Chairs: W.T. (Sonny) Goldston, Jeannette Hyatt, Savannah River Nuclear Solutions, LLC (USA)

Sponsor & Paper Reviewer: W.T. (Sonny) Goldston

Organizers: Melissa Nielson, Jeannette Hyatt

10:05 Working Logic: Waste Project Management for the 21st Century - 10495
Peter Baston, IDEAS Business Technology Integration LLC; **J.D. Campbell**, Geosyntec Consultants; **Ralph Phelps**, Northern New Mexico Citizens Advisory Board (USA)

10:30 Educating Volunteers, Stakeholders, and Workers by the Use of Input/Output Analysis Graphics at Savannah River Site (SRS) - 10331
Manuel Bettencourt, SRS CAB (USA)

10:55 Effective Citizen Advocacy of Beneficial Nuclear Technologies: Being the Nuclear Voice - 10108
Susan Wood, Clinton Wolfe, Citizens for Nuclear Technology Awareness (USA)

11:20 Engaging Citizens - AREVA Experience in France - 10389
Laurence Pernot, Remi Bera, AREVA Federal Services, LLC (USA)

Session 10

10:00 AM - 12:00 PM **Room 106 C**

Safeguards and Consequence Management - Next Generation Reactors to RDD

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

10:05 International Development of Safeguards by Design of Nuclear Facilities and Processes - 10030
David Hebditch, Michelle Wise, Jon Martin, Dik Third, UKAEA (United Kingdom)

10:30 Performance Evaluation of Decontamination Technologies for Dirty Bomb Cleanup - 10036
John Drake, US EPA; **Rick Demmer**, Idaho National Laboratory; **Ryan James**, Battelle (USA)

10:55 A First-Order Estimate of Debris and Waste Resulting from a Hypothetical Radiological Dispersal Device Incident - 10232
Paul Lemieux, Joe Wood, Daniel Schultheisz, Thomas Peake, Mario Ierardi, US EPA; **Colin Hayes**, Molly Rodgers, Eastern Research Group, Inc. (USA)

Session 11

1:30 PM - 5:00 PM

Room 102 A

Panel: US DOE Featured Site: Hanford - Accomplishments and Challenges**Co-Chairs: Dave Brockman, US DOE;**
Shirley Olinger, US DOE - ORP (USA)**Sponsor: Tom Brouns****Organizers: Elizabeth Bowers, Cameron Hardy****Panel Reporter: Cameron Hardy**

This panel session focuses on progress and technologies from the US DOE's largest and longest term nuclear legacy waste cleanup effort at the Hanford Site in South-eastern Washington State. The session will begin with an introduction, update on progress, and perspectives on cleanup challenges from DOE senior management. The introduction will be followed by two sequential panel discussions on 1) the Hanford central plateau and river corridor cleanup, and 2) tank waste remediation. Hanford Site contractors and national laboratory representatives will introduce their specific role in Hanford cleanup and highlight technology advances that are helping enable and improve progress in environmental remediation, waste management, tank waste remediation and D&D.

Panelists: David Brockman, Manager, US DOE-RL;
Stacy Charboneau, US DOE-ORP; Frank A. Figueroa, President and General Manager, Mission Support Alliance; Ryan Dodd, Deputy Project Manager, Washington Closure Hanford; John Lehew, President, CH2M HILL Plateau Remediation Company; Wayne Johnson, Director Environmental Sustainability Division, PNNL; Frank Russo, Project Director, Waste Treatment Plant Project, Bechtel National; Scott A. Saunders, WRPS Technology and SST Retrieval Manager, Washington River Protection Solutions; and Tom Brouns, Manager, Environmental Health and Remediation Sector, PNNL.

Session 12

1:30 PM - 3:15 PM

Room 105 AB

Panel: Hot Topics and Emerging Issues in US Commercial Low Level Radioactive Waste Management**Co-Chairs: Marcia Marr, Central Midwest Compact Commission; Kathryn Haynes, Southeast Compact Commission (USA)****Sponsor & Panel Reporter: Linda Beach****Organizers: Marcia Marr, Kathryn Haynes**

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

State, compact, federal and industry views will be shared on topics such as current and future activities of the Texas Compact Commission including import/export policies and associated fees; licensing, construction, and development of the planned Waste Control Specialist' federal and commercial low-level radioactive waste disposal facilities; federal regulatory developments and perspectives from a license applicant on issues related to the classification and disposal of depleted uranium; current and future waste management and related activities of the US Department of the Army; and, updates regarding the EnergySolutions' Clive disposal facility from the operator's perspective.

Panelists: Michael S. Ford, Chair, Texas Low Level Radioactive Waste Disposal Compact Commission;
Rodney Baltzer, President of Waste Control Specialists; Steve Cowne, Director of Quality and Regulatory Affairs, Louisiana Energy Services/National Enrichment Facility; Kelly Crooks, Chief of the Rad Waste Operations Division of the US Department of the Army's Joint Munitions Command; and Thomas Magette, Senior Vice President of Nuclear Regulatory Strategy at EnergySolutions, Inc. Todd Lovinger - who also serves as Executive Director of the LLW Forum - will serve as moderator of the panel.

Session 13

3:15 PM - 5:00 PM

Room 105 AB

Selected Key Topics in US Commercial LLW Management**Co-Chairs: Virgene Ideker-Mulligan, ARS International; Kathryn Haynes, Southeast Compact Commission (USA)****Sponsor & Paper Reviewer: Linda Beach**
Organizers: Kathryn Haynes, Linda Beach

3:20 Presentation of the Richard S. Hodes, M.D. Honor Award by Michael Mobley, Southeast Compact Commission for LLW to Larry Camper, Director, Division of Waste Management & Environmental Protection, US NRC. The award is followed by the WM2010 Richard S. Hodes, M.D. Honor Lecture.

Low-Level Radioactive Waste Management in the United States - Where Have We Been: Where Are We Going - 10417
Larry Camper, US NRC (USA)

4:10 The Continuing Expansion of Waste Control Specialists LLC Licenses & Capabilities - 10514
Michael Lauer, Waste Control Specialists LLC (USA)

Session 14

1:30 PM - 5:00 PM

Room 104 AB

Panel: Yucca Mountain – What’s Next? Plus an International Update on National Strategies for SNF Management and Disposal**Co-Chairs: Paul Dickman**, *US NRC*;**Eric Knox**, *URS Corp. (USA)***Sponsor: Dorothy Davidson****Organizers: Leif G. Eriksson, Robert Edmonds****Panel Reporter: Robert Edmonds**

This timely and provocative panel will focus on and address both the perilous status of the US's only candidate SNF/HLW repository at the Yucca Mountain site and potential options for meeting the nation's continually increasing need for SNF and HLW disposal volume. This volume is projected to exceed the current statutory capacity of the Yucca Mountain repository in 2010.

The panel will be divided into four (4) topic areas with ample time for audience participation on each topic. Topics are: 1) Current status of the repository program including activities in Congress, the Administration, DOE-RW and NRC, 2) Implications for utilities and DOE defense waste sites of withdrawing the Yucca Mountain license application or de-funding the program, 3) Alternatives to a repository, including federal storage and recycling, and 4) International programs which offer lessons learned and alternative approaches.

Panelists: Enrique Biurrun, *Head of the International Cooperation Department, DBE TECHNOLOGY GmbH (Germany)*; **Carl Reinhold Brakenhielm**, *Vice Chair, Swedish National Council for Nuclear Waste*; **Edward Davis**, *Pegasus Group, LLC*; **George Dials**, *Executive VP, B&W Technical Services Group*; **Roy Eiguren**, *Consultant to former Idaho Governor Phil Batt*; **Darrell Lacy**, *Nye County, NV*; **Andrew Orrell**, *Sandia National Laboratories Director of Nuclear Energy Programs*; **Jean-Michel Bosgiraud**, *ANDRA (France)*; **Frank Parker**, *Distinguished Professor of Environmental Engineering, Vanderbilt University*; **Mark Peters**, *Deputy Associate Laboratory Director, Argonne National Laboratory*; **John Parkyn**, *Chairman of the Board and CEO of Private Fuel Storage, LLC* and **Dan Stout**, *Manager Federal Programs, Licensing, Nuclear Generation Development and Construction, TVA*.

Session 15

1:30 PM - 5:00 PM

Room 101 B

Operating Experience and Progress in the Conditioning, Storage or Disposal of HLW and SNF**Co-Chairs: Keith Miller**, *National Nuclear Laboratory (United Kingdom)*; **Bernard Vigreux**, *French Nuclear Energy Society (France)***Sponsor & Paper Reviewer: Bernard Vigreux**
Organizers: Bernard Vigreux, Keith Miller**1:35 The Design and Manufacture of Equipment for the Automated Sampling of Process Streams for the Hanford Waste Treatment Project - 10267****Gordon Crawford**, *Nicholas Doyle, EnergySolutions (USA)***2:00 La Hague Continuous Improvement Program to go Beyond the Current High Level of Equipment Availability of the Vitrification Facility: Operation Support with Specific Numerical Tools - 10128****Julien Lauzel**, *Nicolas Huon, Fabrice Pereira Mendes, SGN (France)*; **Eric Chauvin**, *Philippe Mahut, AREVA NC*; **Eric Tronche**, *Philippe Gruber, CEA Marcoule (France)***2:25 Functional Design and Operational Requirements for a Storage Facility for High-Level Waste Canisters, New York, USA - 10309****K.K. Gupta**, *Cynthia Dayton, Lettie Chilson, West Valley Environmental Services, LLC (USA)*; **Mark Bellis**, *US DOE (USA)***2:50 Caustic Side Solvent Extraction at the Savannah River Site: Operating Experience and Lessons Learned - 10105****Steven Brown**, *Savannah River Remediation, LLC (USA)***3:20 Sludge Mass Reduction by Aluminum Dissolution at the Savannah River Site - 10428****Hasmukh Shah**, *Mark Keefer, Jeff Gillam, Savannah River Remediation, LLC (USA)***3:45 Innovative Design of a Remote Maintenance System For Pump Hotcell - 10078****R.K. Gupta**, *S.D. Misra, Devendra Sandhanshive, S.R. Shendge, J.K. Saraswat, N.R. Kale, Bhabha Atomic Research Centre (India)*; **B. Shreekumar**, *P. Sajith, N. Vijaykumar, Kalpakkam Reprocessing Plant (India)***4:10 Idaho Closure Project Integrated Waste Treatment Project Construction and Start-up Status and Lessons Learned - 10433****Ray Geimer**, *CH2M-WG Idaho, LLC (USA)*

Session 16

1:30 PM - 5:00 PM

Room 101 C

Application of Innovative D&D Technologies

Co-Chairs: Rick Demmer, *Idaho National Laboratory (USA)*; Anja Graf, *Projekt Kompakte Natriumgekühlte Kernreaktoranlage (KNK) (Germany)*

Sponsor & Paper Reviewer: Detlef Schmidt
Organizers: Rick Demmer, Robert Woodard

1:35 Innovative Manned and Robotic Techniques that Reduce Dose and Increase Decontamination and Decommissioning Efficiency and Safety - 10132

Charles Vallance, Rex Wamsher, Robert Walcheski, *Underwater Engineering Services Inc.*; John Bramblet, *Newton Robotics (USA)*

2:00 In-Situ Measurement of Low Enrichment Uranium Holdup in Process Gas Piping at K-25 - 10244

Brandon Rasmussen, *Bechtel Jacobs Co. LLC*; Martin Clapham, *Pajarito Scientific Corp.*; Steve Smith, *Oak Ridge National Laboratory (USA)*

2:25 Evaluation of Trenchless Technologies for Installation of Pipelines in Radioactive Environments - 10249

Sharon Robinson, Nick Sullivan, Bradley Patton, Robert Jubin; Kathy Bugbee, *Oak Ridge National Laboratory (USA)*

2:50 Control Testing of the United Kingdom's National Nuclear Laboratory's RadBall Technology at Savannah River National Laboratory - 10080

Steven Stanley, Chris Holmes, Robert Mills, Paul Knight, *National Nuclear Laboratory (United Kingdom)*; Eduardo Farfan, Trevor Foley, John Gladden, **Tim Jannik**, *Savannah River National Laboratory*; Donald Mackenzie, *US DOE*; Mark Oldham, Corey Clift, Andy Thomas, *Duke University Medical Center*; John Adamovics, *Heuris Pharma LLC (USA)*

3:20 Utilizing Laser and Gamma Scanning Modeling Technology as a Characterization Tool in Decommissioning the First Primary Separation Plant at Sellafield - 10081

John MacGregor, Paul Mort, Steve Slater, **Russell Mellor**, *Sellafield Ltd (United Kingdom)*

3:45 The Potential of High Power Lasers in Nuclear Decommissioning - 10092

Paul Hilton, Colin Walters, *TWI Ltd (UK)*
Study of an Innovative Nuclear Process

4:10 Based on Dense CO₂: Application to Decontamination and Pu Recovery - 10394

Bruno Fournel, Ivan Stoychev, Stephane Sarrade, Jean-Christophe Ruiz, *CEA Marcoule*; Patrick Lacroix Desmazes, Tiphaine Ribaut, *Institut Charles Gerhardt, ICG-IAM, Ecole Nationale Supérieure de Chimie de Montpellier (France)*

Session 17

1:30 PM - 5:00 PM

Room 105 C

ER Post Closure Challenges and Long Term Stewardship/Legacy Management

Co-Chairs: Raymond Plieness, *US DOE*; Mark Frei, *Longenecker & Associates, Inc. (USA)*

Sponsor: Raymond Plieness
Organizers: Dale Bignell, Mark Frei
Paper Reviewer: Dale Bignell

1:35 Office of Legacy Management: First Five Years of Managing the Department of Energy's Legacy Responsibilities - 10381

Tony Carter, *US DOE*; Judith Miller, *S.M. Stoller Corporation (USA)*

2:00 Beneficial Reuse of US DOE Legacy Management Sites and Renewable Energy Initiatives - 10276

Steve Schiesswohl, *US DOE Office of Legacy Management*; John Elmer, Michael Butherus, Cheri Bahrke, Carl Jacobson, *S.M. Stoller Corporation (USA)*

2:25 The US DOE Formerly Utilized Sites Remedial Action Program: Ensuring Protectiveness and Preserving Knowledge - 10351

Christopher Clayton, Vijendra Kothari, *US DOE (USA)*; Michael Widdop, Joey Gillespie, *S.M. Stoller Corporation (USA)*

2:50 Natural and Enhanced Attenuation of Soil and Groundwater at the Monument Valley, Arizona, US DOE Legacy Waste Site - 10281

William (Jody) Waugh, David Miller, Sarah Morris, Linda Sheader, *S.M. Stoller Corporation*; Ed Glenn, David Moore, Kenneth Carroll, *University of Arizona*; Levon Benally, *Navajo AML Reclamation*; Madeline Roanhorse, *Navajo Nation*; Richard Bush, *US DOE (USA)*

3:20 Groundwater Remediation at the Fernald Preserve, Cincinnati, Ohio: Overview and Status - 10318

William A. Hertel, Ken Broberg, *S.M. Stoller Corporation*; Jane Powell, *US DOE (USA)*

3:45 Quest for the Perfect Cap: The Prototype Hanford Barrier 15 Years Later - 10419

Andy Ward, Glendon Gee, *Pacific Northwest National Laboratory*; Steven Link, *Washington State University (USA)*; Curtis Wittreich, Greg Berlin, *CH2M Hill Plateau Remediation Company*; Kevin Leary, *US DOE (USA)*

4:10 Fire Impacts on a Engineered Barrier's Performance: The Hanford Barrier One Year After a Controlled Burn - 10472

Kevin Leary, *US DOE*; Greg Berlin, *CH2M Hill Plateau Remediation Company*; Andy Ward, *Pacific Northwest National Laboratory*; Steven Link, *Washington State University (USA)*

Monday PM

4:35 Legacy Management's Weldon Spring and Fernald Preserve Sites Prairie Maintenance - 10360

Jane Powell, US DOE Office of Legacy Management; **Harold Swiger**, **Yvonne Deyo**, **John Homer**, **Frank Johnston**, **S.M. Stoller Corp. (USA)**

Session 18

1:30 PM - 5:00 PM

Room 106 A

Waste Characterization - Instrumental Solutions

Co-Chairs: Frazier Bronson, Canberra Industries Inc - AREVA Group; **Stephen Croft**, LANL (USA)

Sponsor, Organizer & Paper Reviewer: Frazier Bronson

1:35 Design of a Facility for the Receipt Inspection and Characterization of LILW Using an Integrated System of Non-Destructive Examination and Non-Destructive Assay Techniques - 10451

Suk Nam Lim, KRMC; **Jeong Sung-Yeop**, Sung Woo E&T Co., LTD (Korea); **Steve Halliwell**, VJ Technologies, Inc (USA)

2:00 The Efficiency Calibration of Non-Destructive Gamma Assay Systems Using Semi-Analytical Mathematical Approaches - 10497

D. Nakazawa, Frazier Bronson, Stephen Croft, Robert McElroy, Wilhelm Mueller, Ram Venkataraman, Canberra Industries Inc - AREVA Group (USA)

2:25 Gamma-Ray Self Attenuation in Performance Demonstration Plan Sources - 10480

Wilhelm Mueller, Stephen Croft, Canberra Industries Inc - AREVA Group (USA)

2:50 The Special Properties of Massimetric Efficiency Calibrations as Compared to the Traditional Efficiency Calibration for D&D and ER Gamma Spectroscopy Measurements - 10021

Frazier Bronson, Canberra Industries Inc - AREVA Group (USA)

3:20 Waste Assay at the Free Release Threshold Using a Box Monitor - 10007

Timothy Miller, AWE (United Kingdom)

3:45 Nuclear Calorimetry - "Dispelling the Myths" - 10443

Sasha Philips, Stephen Croft, Canberra Industries Inc - AREVA Group; **Louise Evans**, Los Alamos National Laboratory; **Juliette Guerault**, Setaram Instrumentation (France)

4:10 Performance Assessment of the Add-A-Source Matrix Correction Method Using the Super High Efficiency Neutron Coincidence Counting System (SuperHENC) - 10527

Alan Simpson, T.A. Peterson, S.A. McElhane, Pajarito Scientific Corporation (USA)

4:35 TRU/LLW Segregation Using Passive Neutron Coincidence Counting - 10072

Jamie Rackham, **Mark Wilson**, **Jonathan Sharpe**, VT Group (United Kingdom)

Session 19

1:30 PM - 5:00 PM

Room 106 B

Communication of Technical Issues

Co-Chairs: Elizabeth Bowers, US DOE; **Bruce Kaiser**, Bruker (USA)

Sponsor & Paper Reviewer: Elizabeth Bowers

Organizers: W.T. (Sonny) Goldston, **Cherri DeFigh-Price**

1:35 Post-Fire Revegetation at Hanford - 10434

Richard Roos, Austin Johnson, Joe Caudill, Juan Rodriguez, Justin Wilde, Mission Support Alliance (USA)

2:00 An Integrated Biological Control System at Hanford - 10436

Justin Wilde, **Richard Roos**, **Ray Giddings**, **Austin Johnson**, **Joe Caudill**, **Juan Rodriguez**, Mission Support Alliance (USA)

2:25 Public & Regulatory Acceptance of Covers over Low-Level Waste Disposal Trenches to Ensure CERCLA Waste Acceptance during American Reinvestment and Recovery Act Implementation - 10041

W.T. (Sonny) Goldston, Savannah River Nuclear Solutions (USA)

2:50 Application of Natural Attenuation Processes to Remediate Metals and Radionuclides in Groundwater: Regulatory Guidance and Stakeholder Perspective - 10113

Dibakar (Dib) Goswami, Washington State Dept. of Ecology; **Carl Spreng**, Colorado Dept. of Public Health and Environment (USA)

3:20 Public Perceptions of Natural Resource Damage Assessment and the Resources that Require Restoration - 10054

Joanna Burger, Rutgers University; **Michael Gochfeld**, CRESPI (USA)

3:45 Role of State Legislatures in Nuclear Waste Management - 10284

Melissa Savage, Emily Templin, National Conference of State Legislatures (USA)

4:10 US DOE'S Performance Assessment Scoping Process - 10445

Martin Letourneau, US DOE (USA)

4:35 An Approach to Knowledge Management for Radioactive Waste - 10114

Olga Batyukhnova, Yury Puzanov, Irina Semenova, Arthur Arustamov, SIA RADON (Russia); **Michael Ojovan**, University of Sheffield (United Kingdom)

Session 20

1:30 PM - 3:15 PM

Room 103 AB

Panel: New Directions in Safety & Health from a Global/Enterprise Perspective**Co-Chairs: Judith Connell, Joseph Yanek, Fluor Government Group (USA)****Sponsor & Panel Reporter: Judith Connell****Organizers: Judith Connell, Joseph Yanek**

This Session is the first of a two-part panel. This Session will focus on trends in safety, health and sustainability from a global perspective. A question-and-answer period will follow the presentations and panel discussions.

Panelists: Frank R. Russo, SR ESHQ Advisor to NNSA Administrator, US DOE HQ NNSA; **Chris Evans**, Executive Director HSE, Fluor Corporation, Camberley (UK); **Dave Jackson**, Chair, Voluntary Protection Program Participants Association; and **Brent Rankin**, EVP/COO, Idaho Cleanup Project.

Session 21

3:15 PM - 5:00 PM

Room 103 AB

Panel: The Role of Executive Leadership in Developing and Maintaining a Strong Safety Culture**Co-Chairs: William Murphie, US DOE; Joseph Yanek, Fluor Government Group (USA)****Sponsor, Organizer & Panel Reporter: Judith Connell**

This Session is the second part of the discussion on safety. Participants on this panel will focus on the role of executive leadership in achieving a strong safety culture. A question-and-answer period will follow the presentations and panel discussions.

Panelists: Garry Flowers, President & CEO, Savannah River Nuclear Solutions, LLC; **Greg Meyer**, President & General Manager, B&W Pantex; **Roy Schepens**, VP, Infrastructure and Technology Group, Parsons; **Ray Skwarek**, Director, Safety, Health & Quality Assurance, Washington Closure Hanford; and **David Moody**, Manager, Waste Isolation Plant, Carlsbad Field Office, US DOE.

Session 22

1:30 PM - 5:00 PM

Room 106 C

Worldwide Waste Management Regulatory and Oversight Crosscutting Programs - An Update**Co-Chairs: Malgorzata Sneve**, Norwegian Radiation Protection Authority (Norway); **Ray Clark**, US EPA**Sponsor: Ray Clark****Organizers: Christopher Timm, Gérald Ouzounian**
Paper Reviewer: Christopher Timm**1:35 US DOE's New Complex-Wide Review and Update to US DOE Order 435.1, Radioactive Waste Management - 10412***Susan Krenzien, Navarro Research and Engineering; Martin Letourneau, US DOE (USA)***2:00 Joint Convention Lessons Learned and Avoidance of Future Legacies - 10370***Lisa Phillips, US DOE; Giorgio Gnugnoli, US NRC; Daniel Schultheisz, US EPA (USA)***2:25 Baseline Review of United Kingdom Nuclear Infrastructure - 10239***Juliet Long, Joe McHugh, David Bennett, Environment Agency; Betty Ng, Anthony Webb, Peter Lutwyche, Michael Middleton, Jacobs; Alastair Macdonald, Jacobs Engineering (UK)***2:50 Progress in Norway's Bi-Lateral Cooperation Program on Regulatory Supervision of Legacy Site Management: The Role of International Recommendations - 10191***Malgorzata Sneve, Norwegian Radiation Protection Authority (Norway); Mikhail Kiselev, Federal Medical-Biology Agency of Russia; and Natalia Shandala, Burnasyan Federal Medical Biophysical Centre (Russia)***3:20 Radioactive Waste Disposal - How Safe Should It Be? - 10526***Christopher Timm, PECOS Management Services, Inc.; Bruce Thomson, University of New Mexico (USA)***3:45 Some Unlearned Lessons in Radioactive Waste Disposal - 10517***Robert Neill, New Mexico EEG (USA)***4:10 An International Effort to Develop Guidance on the Comparison of NQA-1-2008/NQA-1a-2009, and International Atomic Energy Agency Safety Standard GS-R-3 - 10008***Gustave Danielson, US DOE (USA)***4:35 Nationwide Environment-Oriented Program of Radioactive Waste Management in Ukraine - 10398***Volodymyr Kholosha, Liubov Zinkevich, Mykola Proskura, Ministry of Emergency of Ukraine; Viacheslav Shestopalov, National Academy of Sciences; Emlen Sobotovich, Institute of Geochemistry of the Environment of the National Academy of Science; Volodymyr Tokarevsky, Ukrainian State Corporation Radon (Ukraine)*

Poster Session 23

1:30 PM - 5:00 PM

1st Floor Foyer

HLW/SNF/TRU Posters A-D

Topic A: Monitoring, Processing, and Cleaning of HLW Tanks and Equipment

Co-Chairs: Anthony Banford, *National Nuclear Laboratory (United Kingdom)*; Terri Fellingner, *Savannah River Remediation (USA)*

Sponsor: Terri Fellingner

Paper Reviewer: Harry Babad

- A1. A Modern Interpretation of the Barney Diagram for Aluminum Solubility in Tank Waste** - 10075
Jacob Reynolds, *Washington River Protection Solutions (USA)*; *Daniel Reynolds*, *AEM Consulting (USA)*
- A2. Mineralization of Radioactive Wastes by Fluidized Bed Steam Reforming (FBSR): Radionuclide Incorporation, Monolith Formation, and Durability Testing** - 10467
Carol Jantzen, *Charles Crawford*, *Savannah River National Laboratory (USA)*
- A3. 2009 Pilot Scale Fluidized Bed Steam Reforming Testing Using the THOR® (THERMAL ORGANIC REDUCTION) PROCESS: Analytical Results for Tank 48H Organic Destruction** - 10408
Michael Williams, *Carol Jantzen*, *Gene Daniel*, *Paul Burket*, *Charles Crawford*, *Savannah River National Laboratory*; *Celia Aponte*, *Savannah River Remediation, LLC*; *Caroline Johnson*, *University of South Carolina (USA)*
- A4. A Unique Design Approach for Extending Service Life of a Failed Thermo-Siphon Evaporator** - 10211
R.K. Gupta, *A.K. Singh*, *S.P. Patil*, *D.B. Mehta*, *S.M. Wavare*, *S.K. Mourya*, *S.D. Misra*, *Bhabha Atomic Research Centre (India)*
- A5. Gas Retention and Release Experiments with Low Yield Stress Fluids** - 10137
Romani Patel, *Georgio Tachiev*, *Vishwani Sharma*, *Nitin Yadav*, *Dwayne McDaniel*, *David Roelant*, *Florida International University (USA)*
- A6. Multiple-Relaxation-Time Lattice Boltzmann Method for Multiphase Flows with High Density and Viscosity Ratios** - 10135
Seckin Gokaltun, *Dwayne McDaniel*, *Florida International University (USA)*
- A7. Remote Monitors for High Level Waste (HLW)** - 10098
Jose Varona, *Amer Awwad*, *Dwayne McDaniel*, *David Roelant*, *Jairo Crespo*, *Reny Rosales*, *Florida International University (USA)*
- A8. Evaluation and Development of Innovative High-Level Waste Pipeline Unplugging Technologies** - 10136

Dwayne McDaniel, *Seckin Gokaltun*, *Tomas Pribanic*, *Jose Varona*, *Amer Awwad*, *David Roelant*, *Florida International University (USA)*

- A9. Scaled Testing to Evaluate Pulse Jet Mixer Performance in Waste Treatment Plant Mixing Vessels** - 10487
James Fort, *Perry Meyer*, *Judith Bamberger*, *Carl W. Enderlin*, *Paul A. Scott*, *Michael J. Minette*, *Phillip Gauglitz*, *Pacific Northwest National Laboratory (USA)*
- A10. Enhanced Chemical Cleaning: Effectiveness of the UV Lamp to Decompose Oxalates** - 10502
Edward Ketusky, *Thomas Huff*, *Christie Sudduth*, *Savannah River Remediation*; *John Remark*, *Dennis Jones*, *AREVA NP Inc.*; *Mika Sillanpaa*, *University of Eastern Finland (Finland)*
- A11. System Planning with the Hanford Tank Waste Operations Simulator** - 10236
Tom Crawford, *Paul Certa*, *Washington River Protection Solutions*; *Michele Wells*, *AEM Consulting (USA)*

Topic B: Update and Technology Improvements for HLW Vitrification Processes

Co-Chairs: Keith Miller, *National Nuclear Laboratory (United Kingdom)*; Christian Ladirat, *CEA Marcoule (France)*

Sponsor: Christian Ladirat

Paper Reviewer: Keith Miller

- B1. Design and Construction of Integrated System of Bench-Scale High-Temperature Waste Melting/Vitrification Units at SIA Radon** - 10141
Sergey Stefanovsky, *Sergey Dmitriev*, *Alexander Ptashkin*, *Igor Knyazev*, *Oleg Knyazev*, *Maria Zen'kovskaya*, *SIA Radon (Russia)*
- B2. Vitrification in a Cold Crucible Melter of HLLW Surrogate Solution: Behavior of Volatile Elements from Furnace to Off Gas Treatment** - 10020
Eric Tronche, *J. Lacombe*, *Alain Ledoux*, *Roger Boen*, *Christian Ladirat*, *CEA Marcoule (France)*
- B3. Cold Crucible Vitrification and Characterization of Vitrified Savannah River Sludge Batch 4 Waste Surrogate** - 10139
Sergey Stefanovsky, *Vladimir Lebedev*, *Dmitriy Suntsov*, *Mikhail Polkanov*, *SIA Radon (Russia)*; *James Marra*, *Savannah River National Laboratory (USA)*
- B4. Cold Crucible Inductive Melter (CCIM) Technology for Treatment of LILW and HLW** - 10209
Vladimir Lebedev, *Dmitriy Suntsov*, *Sergey Shvetsov*, *Sergey Stefanovsky*, *Alexander Kobelev*, *Fedor Lifanov*, *Sergey Dmitriev*, *SIA Radon (Russia)*

- B5. 3D Thermal, Hydrodynamic & Magnetic Modeling of Elaboration of Glass by Induction in Cold Crucible** - 10051
Emilien Sauvage, Patrice Brun, CEA; Armand Bonnetier, CEA Valrho; Christian Ladirat, J. Lacombe, CEA Marcoule; Eric Chauvin, AREVA NC (France)
- B6. EM-21 Higher Waste Loading Glasses for Enhanced DOE High-Level Waste Melter Throughput Studies** - 10194
Fabienne Raszewski, Thomas Edwards, David Peeler, Savannah River National Laboratory (USA)
- B7. Estimating Melt Rate for Savannah River Site HLW Simulants** - 10304
Albert Aloy, Alexander Trofimenko, Valery Belov, Khlopin Radium Institute (Russia); Kurt Gerdes, US DOE; James Marra, Kevin Fox, David Peeler, Savannah River National Laboratory (USA)
- B8. Sellafeld Thermal Treatment Trials Using Advanced Joule Heated Ceramic Melter Technology** - 10110
Keith Matlack, Wing K. Kot, Hao Gan, Ian Pegg, Catholic University of America; Glenn Diener, Bradley Bowan, EnergySolutions (USA)
- B9. Mitigation of Yellow Phase Formation at the Rokkasho HLW Vitrification Facility** - 10107
Ian Pegg, Hao Gan, Keith Matlack, Catholic University of America; Innocent Joseph, Bradley Bowan, EnergySolutions (USA); Yoshihiro Endo, IHI Corporation; Akikazu Ohashi, Toshiki Fukui, Japan Nuclear Fuel Limited (Japan)
- B10. Solubility of Sulfate and Chloride Ions in Borosilicate Melts at Vitrification of Intermediate-Level Radioactive Wastes** - 10348
Natalia Ilyukhina, Irene Ponomaryova, Tatiana Lashchenova, Sergey Stefanovsky, SIA Radon (Russia)
- B11. On Spinodal Decomposition of E-Beam Irradiated Borosilicate Glasses** - 10202
Michael Ojovan, Guenter Möbus, University of Sheffield (United Kingdom); Guang Yang, Universität Erlangen-Nürnberg (Germany)

Topic C: Development of Technologies for the Processing of SNF/HLW and Management of TRU Waste

Co-Chairs: Harry Harmon, Senior Consultant (USA); Roger Nelson, US DOE (USA)
Sponsor: Harry Harmon
Paper Reviewer: Roger Nelson

- C1. Selective Separation and Recovery of Mo(VI) by Hybrid Microcapsules Containing Organic Extractants** - 10179
Kaoru Ikeda, Yan Wu, Hitoshi Mimura, Yuichi Niibori, Tohoku University; Yoshito Wakui,

National Institute of Advanced Industrial Science and Technology Tohoku; Masahiko Osaka, Shinichi Koyama, Takashi Ohnishi, Japan Atomic Energy Agency (Japan)

- C2. Control of Volatile Radionuclides from the Dissolution of Used Nuclear Fuel** - 10224
Robert Jubin, Dan Ramey, Steve Owens, E. Steve Meyers, Porter Bailey, Joseph Giaquinto, Barry Spencer, Oak Ridge National Laboratory (USA)
- C3. Dry Spent Nuclear Fuel Storage and its Role in Environmental Damages Mitigation in Brazil** - 10302
Luiz Sergio Romanato, Brazilian Naval Technology Center; Barbara Maria Ryzski, Energetic and Nuclear Research Institute (Brazil)
- C4. Full-Scale Tests of Technology for TRU-Containing MLW and LLW Decontamination** - 10026
Vladimir Gelis, Vitaly Milyutin, Evgeny Kozlitsin, Frumkin Institute of Physical Chemistry and Electrochemistry RAS; Arthur Arustamov, Dmitry Adamovich, Sergey Dmitriev, SIA Radon (Russia)
- C5. WIPP Regulatory Compliance – Keeping the Gate Open** - 10435
Susan McCauslin, Russell Patterson, US DOE; Steve Kouba, URS Corporation (USA)
- C6. Operational Experience of Chlorinated Compounds Waste Incineration System for Plutonium Contaminated Wastes** - 10061
Yuichi Shibata, Izumi Iimura, Kazuya Usui, Japan Atomic Energy Agency (Japan)
- C7. Cementation Mixing Gloveboxes for Radioactive Wastes at the Waste Solidification Building at DOE Savannah River Site** - 10237
Gordon Crawford, EnergySolutions (USA)
- C8. Neutron Self Multiplication Effects in PDP Items in the Context of Coincidence Counting** - 10496
Stephen Croft, Sean Stanfield, Nabil Menaa, Canberra Industries Inc - AREVA Group (USA); Patrick Chard, Canberra Industries Inc - AREVA Group (United Kingdom)

Topic D: Technology and Studies Supporting the Disposal for HLW and SNF

Co-Chairs: Zara Banfield, National Nuclear Laboratory (United Kingdom); Roger Nelson, US DOE
Sponsor: Zara Banfield
Paper Reviewer: Roger Nelson

- D1. Sorption Behavior of Eu (III) into Calcium Silicate Hydrate (CSH) Gel with Relatively Low Ca/Si Ratio <1.0** - 10096
Masayuki Narita, Yuichi Niibori, Hitoshi Mimura, Akira Kirishima, Tohoku University (Japan); Joonhong Ahn, University of California, Berkeley (USA)

Monday PM

- D2. Uncertainty and Sensitivity Analysis for Long-Term Performance of Sand-Bentonite Buffer Material** - 10077
Seiji Takeda, Hideo Kimura, Japan Atomic Energy Agency (Japan)
- D3. Dynamic Behavior of Silicic Acid in the Co-Presence of the Solid Phase and Ca Ions** - 10120
Naoyuki Tamura, Hitoshi Mimura, Yuichi Niibori, Tohoku University; Kazuki Iijima, Japan Atomic Energy Agency (Japan)
- D4. Measurement of Stable Iodine in Crops and Soils as an Analogue of Iodine-129** - 10347
Shigeo Uchida, Keiko Tagami, National Institute of Radiological Sciences (Japan)
- D5. Two-Zone Sub-Critical Reactor Driven by a High-Intensity Neutron Generator as a Research Facility for the Nuclear Waste Transmutation** - 10124
Volodymyr Gulik, Volodymyr Pavlovych, Institute for Nuclear Research of the National Academy of Science of Ukraine; Volodymyr Babenko, Kyiv Bogolyubov Institute for Theoretical Physics (Ukraine)
- D6. Non-destructive Determination of Plutonium Mass in Spent Fuel: Preliminary Modeling Results Using the Passive Neutron Albedo Reactivity Technique** - 10413
Louise Evans, Stephen Tobin, Howard Menlove, M.A. Shear, S.Y. Lee, M.T. Swinhoe, Los Alamos National Laboratory (USA)
- D7. Impermeable Graphite: A New Development for Embedding Radioactive Waste and an Alternative Option of Managing Irradiated Graphite** - 10027
Johannes Fachinger, Karl-Heinz Grosse, Furnaces Nuclear Applications Grenoble; Richard Seemann, M. Hrovat, ALD Vacuum Technologies GmbH (Germany)
- D8. Estimation of Carbon-14 Transfer from Agricultural Soils to Crops Using Stable Carbon Isotope Ratios** - 10346
Keiko Tagami, Shigeo Uchida, National Institute of Radiological Sciences (Japan)

Poster Session 24

1:30 PM - 5:00 PM

Exhibit Hall

Student Poster Competition: The Next Generation, Industry Leaders of Tomorrow

Co-Chairs: Robert Berry, Foxfire Scientific (United Kingdom); Leonel Lagos, Florida International University (USA)

Sponsor: Robert Berry

- S1. The Effect of Aqueous Bicarbonate in the Dissolution Rate of Autunite at US DOE's Hanford Site Subsurface Soil** - 10546

- Melina Idarraga (DOE Fellow), Florida International University (USA)**
- S2. Wiped Film Evaporator Pilot - Scale Experimental Design to Reduce Volume of Waste at Hanford's Farm Tank** - 10547
Duriem Calderin (DOE Fellow), Florida International University; Robert Wilson, Columbia Energy & Environmental Services, Inc. (USA)
- S3. Compendium of Technology Experts and University/Industry Research Programs Applicable to D&D** - 10548
Ramon A. Colon (DOE Fellow), Florida International University (USA)
- S4. Mercury Remediation using Dow's Experimental XUS-43604.00 Ion-Exchange Resin at Oak Ridge National Laboratory** - 10549
Charles Castello (DOE Fellow), Florida International University; Paul Taylor, Oak Ridge National Laboratory (USA)
- S5. Phosphate and Calcium Precipitation in Aqueous Environment: Implication on Uranium Remediation at US DOE-Hanford Site** - 10550
Nadia Lima (DOE Fellow), Prabhakar Pant, Leonel Lagos, Florida International University (USA)
- S6. Temperature Analysis of Mass Grout Pours for Single Shell Tank Closure at Hanford** - 10551
Raul Dominguez (DOE Fellow), Florida International University (USA)
- S7. Computational Analysis Validation of Power Fluidics Mixing Technology to Enhance Chemical Cleaning Operations in High Level Waste Tanks at Savannah River Site** - 10552
Edgard Espinosa (DOE Fellow), Florida International University (USA)
- S8. Development of Characterization Tools for Contaminated Nuclear Stacks** - 10553
William Mendez (DOE Fellow), Florida International University (USA)
- S9. The Search for Knowledge - Meeting US DOE-EM's High Priority D&D Needs** - 10554
Leydi Velez (DOE Fellow), Florida International University (USA)
- S10. Effect of pH and Temperature on the Carbonate-Promoted Dissolution of Synthetic Sodium Meta-Autunite** - 10555
Ravi Krishna Prasanth Gudavalli, Florida International University (USA)
- S11. Mercury Interactions with Sediments at Oak Ridge's East Fork Poplar Creek** - 10556
Elsa Cabrejo (DOE Fellow), Florida International University (USA)

- S12. Characterizing Inorganic Scintillating Detectors for Determining Potential Radiation Exposure** - 10358
Ronald Unz, Donna Rogers, Charles Waggoner, Mississippi State University (USA)
- S13. Evaluation of Variables Affecting Spatial Resolution for Mobilized Gamma Detection** - 10355
Charles Vaughan, Jay McCown, Donna Rogers, Charles Waggoner, Mississippi State University (USA)
- S14. Developing New Photo Catalysts for Complete Destroying Hazardous Contaminants in Polluted Waters Using Sunlight** - 10576
Sarif Masud, Mahsa Hosseini, Geoffrey B. Saube, Maryam Zarei, University of Texas at El Paso (USA)
- S15. Chemical Footprint of Surface-Runoff Infiltration in the Vicinity of Yucca Mountain**- 10290
Omar Al-Qudah, University of Texas at El Paso (USA)
- S16. Bayesian Geostatistical Inversion Framework for Characterizing Three-Dimensional Hydraulic Conductivity Field: An Application to the Hanford 300 Area** - 10298
Haruko Murakami, Yoram Rubin, Xingyuan Chen, Melanie Hahn, University of California, Berkeley (USA); Mark Rockhold, Vince Vermeul, Pacific Northwest National Laboratory (USA)
- S17. The Optimization of the Sub-critical Core for the Nuclear Waste Transmutation** - 10585
Volodymyr Gulik, Kiev Institute for Nuclear Research (Ukraine)
- S18. Removal of Uranium (VI) under Anaerobic Conditions using an Indigenous Mine Consortium from Limpopo, South Africa** - 10588
Simphiwe Chabalala, Evans Chirwa, University of Pretoria (Republic of South Africa)
- S19. Power Fluidics: Improving the Efficiency of Enhanced Chemical Cleaning at the Savannah River Site** - 10589
Lee Brady (DOE Fellow), Florida International University (USA)
- S20. Iron-Polyphosphate Precipitation System: Possible Impact on Polyphosphate Remediation Technology** - 10590
Reinier Hernandez (DOE Fellow), Florida International University (USA)
- S21. Separation of Metal and Metal Oxides using Ethyl Acetate and Bromine** - 10591
Alexander Henao (DOE Fellow), Florida International University (USA)
- S22. In-Tank Solids Monitor** - 10592
Henry Diaz (DOE Fellow), Florida International University (USA)

- S23. Fuel Cycle Design and Analysis of SABR: Subcritical Advanced Burner Reactor** - 10594
Christopher Sommer, Weston Stacey, Bojan Petrovic, Georgia Institute of Technology (USA)
- S24. Removal of Hg (II) from Aqueous Solutions of LIX26 and LIX84 Cationic Exchangers** - 10597
Sergiu Fiodorov (DOE Fellow), Florida International University (USA)
- S25. Selective Uptake of Palladium by Hybrid Microcapsules** - 10598
Takenori Kuzumaki, Tohoku University (Japan)
- S26. A Study of Uranium Biosorption by DOE-Hanford Site Soil Isolates: Effect of pH and Carbonate** - 10599
Denny Carvajal (DOE Fellow), Florida International University (USA)
- S27. Development of the Self-Propagating High-Temperature Synthesis Process for Nuclear Fuel Fabrication** - 10600
Victoria Olsen, Colorado School of Mines (USA)
- S28. Using SHS to Produce Nitride Transmutation Fuels Containing Minor Actinides** - 10601
Zoe Kula-Kreidler, Colorado School of Mines (USA)
- S29. Development of a Modified TALSPEAK (Trivalent Actinide-Lanthanide Separation by Phosphorus Reagent Extraction from Aqueous Complexes) Process to Separate Americium from Curium in Spent Nuclear Fuel** - 10602
Christina Leggett, University of California, Berkeley; Renato Chiarizia, Mark Jensen, Argonne National Laboratory (USA)
- S30. Preconcentration Process for Mass Spectrometry with Applications to Nuclear Forensics, Bio-Assay, and Site Remediation** - 10605
James Miller, Texas A& M University (USA)

March 9, Tuesday AM

Session 25

8:30 AM - 12:00 PM

Room 102 B

Panel: Emerging Issues with US DOE Prime Contractors

Co-Chairs: Judith Connell, Pete Knollmeyer, Fluor Government Group (USA)

Sponsor & Panel Reporter: Judith Connell

Organizers: Judith Connell, Pete Knollmeyer

This panel will feature senior executives from large and small US DOE sites addressing issues in the DOE's waste and environmental cleanup program. Multiple, timely topics concerning critical or emerging issues or

Tuesday AM

challenges within the prime contractor community will be the focus of the discussion.

Such potential topics include integrating ARRA activities/funding with Site mission/base funding. Questions will be posed to the panelists for response followed by discussion.

Panelists: **Bill Franz**, Project Manager, LATA/Parallax Portsmouth, LLC; **John Lehew**, President, CH2M HILL Plateau Remediation Company; **Garry Flowers**, President & CEO, Savannah River Nuclear Solutions, LLC; **Scott Sax**, Washington River Protection Solutions; **Jeff Mousseau**, President & General Manager, Bechtel BWXT Idaho; **Ryan Dodd**, Deputy Project Manager, Washington Closure Hanford; **Greg Meyer**, President & General Manager, B&W PANTEX, and **Dennis Ferrigno**, Site Manager, Paducah Remediation Services, LLC. (USA)

Session 26

8:30 AM - 12:00 PM **Room 106 C**

US DOE Small Sites - Cleanup and Waste Management Update

Co-Chairs: Jack Craig, US DOE;
Erich Evered, TerranearPMC (USA)
Sponsor & Paper Reviewer: Erich Evered
Organizers: Erich Evered, Jack Craig

- 8:35 Accelerated Remediation and Nuclear Facility Demolition at the Separations Process Research Unit - 10521**
John Rampe, US DOE (USA)
- 9:00 Moab Uranium Mill Tailings Remedial Action (UMTRA) Project Infrastructure Construction Challenges and Lessons Learned - 10471**
Donald Metzler, US DOE (USA)
- 9:25 West Valley Demonstration Project Update - 10396**
Craig Rieman, US DOE (USA)
- 9:50 Brookhaven National Laboratory Environmental Clean-up and Facility D&D Completion Acceleration - 10537**
Thomas Vero; John Sattler, US DOE (USA)
- 10:20 The Ohio Field Office Closure Experience - 10380**
Johnny Reising, US DOE (USA)
- 10:45 Progress in EM's Footprint Reduction for the Oakland Projects Office's Projects - 10560**
Richard Schassburger, US DOE (USA)
- 11:10 The Legacy of Nuclear Research Waste Disposition Initiatives at Argonne National Laboratory, Argonne, IL - 10563**
Susan Lorenz, Cynthia Rock, Argonne National Laboratory (USA)

11:35 Oak Ridge National Laboratory Central Campus Cleanup - 10574

Dirk Van Hoesen, UT-Battelle; JT Howell, James D. Kopotic, David Adler, Lee McGetrick, US DOE; L.C.M. Roddye, Ron Canon, Ken Schneider, T.B. Conley, Oak Ridge National Laboratory (USA)

Session 27

8:30 AM - 12:00 PM **Room 106 B**

The Role of the US DOE Office of Engineering and Technology in Reducing Risk in the HLW Management

Co-Chairs: Steven Schneider, Kurt Gerdes, US DOE (USA)

Sponsor: Kurt Gerdes

Organizers: Kurt Gerdes, John Shultz

Paper Reviewer: John Shultz

- 1. Technology Development to Reduce Risks in EM - Expanded Program for FY10 and Beyond - 10401**
Yvette Collazo, John Shultz, Kurt Gerdes, US DOE; Jeff Griffin, Daniel McCabe, Savannah River National Laboratory (USA)
- 2. US DOE Office of Environmental Management Office of Waste Processing Fiscal Year 2010 Program Plan for Technology Development - 10508**
Steven Schneider, Kurt Gerdes, US DOE; Andrew Fellingner, Jeff Griffin, Savannah River National Laboratory (USA)
- 3. Fiscal Year 2010 Program of the US DOE Office of Groundwater and Soil Remediation - 10587**
Skip Chamberlain, Karen Skubal, US DOE; Dawn Wellman, Pacific Northwest National Laboratory
- 4. Key Functions and Activities for the Office of Nuclear Materials Disposition Within the Environmental Management Program - 10586**
Edgardo DeLeon, Hitesh Nigam, US DOE (USA)
- 5. Office of Deactivation and Decommissioning and Facility Engineering 2010 Prioritized Technology Initiatives to Improve D&D Operations - 10246**
Yvette Collazo, Andrew Szilagyi, Paula Kirk, Shirley Frush, US DOE (USA)
- 6. US DOE-EM Technical Strategies for Transforming the Tank Waste System - 10156**
Steven Schneider, US DOE; Phil McGinnis, Oak Ridge National Laboratory; Michael Cercy, Sheryl Ross Bush, Savannah River National Lab. (USA)
- 7. The External Technical Review Process - A Discussion of Process Guidelines and Recent Review Results - 10155**
John Shultz, Steven Schneider, Monica Regalbutto, US DOE (USA)

8. The US DOE Office of EM Management International Cooperative Program: Overview of Technical Tasks and Results - 10084

James Marra, Kevin Fox, Tim Jannik, Eduardo Farfan, Savannah River National Laboratory; Dong-Sang Kim, Kurt Gerdes, Ana Han, US DOE; John Vienna, Pacific Northwest National Laboratory; Jay Roach, Idaho National Laboratory (USA); Albert Aloy, Khlopin Radium Institute; Sergey Stefanovsky, SIA Radon (Russia); Dmitry Lopukh, Electrotechnical University; Mikhail Bondarkov, International Radioecology Laboratory (Ukraine)

Session 28

8:30 AM - 10:15 AM Room 105 AB

Panel: US Progress, Challenges and Future of American Recovery & Reinvestment Act (ARRA) D&D Projects

Co-Chairs: Albert Freitag, Burns and Roe Enterprises, Inc. (USA); **J. Rick Dearholt**, CDM (USA)
Sponsor & Organizer Albert Freitag
Panel Reporter: J. Rick Dearholt

This panel discussion will focus on the progress, current challenges and production associated with ARRA funded projects in D&D.

Panelists: Reinhard Kneer, DOE Site Manager – Paducah; and Ken Schneider, Program Manager, Environmental Program Management Office, Oak Ridge National Laboratory (USA).

Session 29

10:15 AM - 12:00 PM Room 105 AB

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

Co-Chairs: Fred Sheil, Sellafield Ltd (United Kingdom); **J. Rick Dearholt**, CDM (USA)
Sponsor: Fred Sheil
Organizers: Julia Tripp, Jas Devgun
Paper Reviewer: J. Rick Dearholt

10:20 Offsite Contamination in Plum Brook, from Discovery and Characterization to Demonstration of Regulatory Compliance - 10045 Keith Peacock, NASA-Plum Brook Station (USA)

10:45 Research Reactor FRJ-1 (MERLIN) Disappears Almost Without Trace: Review of the Ups and Downs of Reactor Dismantling - 10453 Burkhard Stahn, Rudolf Printz, Carsten Zehbe, Karel Matela, Forschungszentrum Jülich GmbH (Germany)

11:10 Lessons Learned from Shut-Down to Decommissioning Plan at the Army Pulse Radiation Facility - 10293 Hans Honerlah, US ACE; Gurvis Davis, US Army Developmental Test Command (USA)

11:35 Cleanup of Plutonium Sulfate Spill at NIST Laboratory in Boulder, Colorado, US - 10366 Greg McGinnis, Robin Shult, Paul Ely, EnergySolutions (USA)

Session 30

8:30 AM - 12:00 PM Room 106 A

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

Co-Chairs: Roger Nelson, US DOE (USA); Nancy Zacha, Radwaste Solutions Magazine (USA)
Sponsor & Paper Reviewer: Roger Nelson
Organizers: Roger Nelson, Chuan-Fu Wu

8:35 WIPP Status and Plans - 2010 - 10363 Roger Nelson, Dave Moody, US DOE (USA)

9:00 The Role of the Technical Assistance Contractor at the Waste Isolation Pilot Plant - 10596 Randal Steger, Dick Blauvelt, Wayne Ledford, Steven Calvert, Navarro Research and Engineering, Inc. (USA)

9:25 Mobile Loading Transuranic Waste at Small Quantity Sites in the DOE Complex - 10523 Mitch Carter, Jerri McTaggart, Bryan Howard, Wade Weyerman, Los Alamos National Laboratory (USA)

9:50 Transportation Incidents and Lessons Learned From Nearly 20 Million Miles of WIPP Shipments - 10053 Roger Nelson, William Mackie, US DOE (USA)

10:20 Update on WIPP Recertification - 2009 - 10221 Steve Kouba, Art Chavez, URS Corporation; Russell Patterson, US DOE; Michael Gross, MG Enterprises (USA)

10:45 Planned EPA Regulatory Changes at the WIPP: 2010 and Beyond - 10595 Steve Kouba, URS Corporation; Russell Patterson, US DOE; Michael Gross, MG Enterprises (USA)

11:10 WIPP Hazardous Waste Facility Permit Renewal Application Update - 10206 William Most, Robert Kehrman, URS Corporation (USA)

11:35 WIPP Hazardous Waste Facility Permit 2010 Update – Ten Years Old and Counting - 10210 Robert Kehrman, Dave Streng, Rick Chavez, William Most, URS Corporation (USA)

Session 31

8:30 AM - 12:00 PM Room 101 B

Operating Experience in the Treatment and Storage of LLW, ILW, and TRU

Co-Chairs: Sammy Jones, *IMPACT Services, Inc.*; **Linda Beach**, *Waste Control Specialists LLC (USA)*
Sponsor: Linda Beach
Organizers: Linda Beach, Paul Larsen
Paper Reviewer: Rod Grebb

8:35 Stabilization of SGHWR Sludge and Thorium Metal in a Commercial Plant in the United Kingdom - 10101

Rowland Cornell, *Madoc Hagan, Nuvia Limited (United Kingdom)*

9:00 Conditioning of Pu-Containing Radioactive Waste (LLW) Generated in the Hotlab of the PSI - 10199

Joachim Mueth, *Paul Scherrer Institute (Switzerland)*

9:25 Managing Change in the Supply of Cement Powders for Radioactive Waste Encapsulation – Twenty Years of Operational Experience - 10122

Mike Angus, *Hugh Godfrey, Martin Hayes, National Nuclear Laboratory; Steve Foster, Sellafield Ltd (United Kingdom)*

9:50 Cost-Benefit Analysis for the Regulatory Clearance of Soil and Concrete Wastes at KAERI - 10316

Young-Yong Ji, Il-Sik Kang, T. K. Kim, Woo-Seog Ryu, Dae-Seok Hong, *Korea Atomic Energy Research Institute (Korea)*

10:20 Demonstration Test of Cavern-Type Disposal Facility and Its Progress - 10116

Takahiro Nakajima, *Yoshihiro Akiyama, Kenji Terada, Masahiro Negi, Radioactive Waste Management Funding and Research Center (Japan)*

10:45 Shielded Modular Above Ground Storage Buildings for Low-Level Radioactive Waste - 10142

Param Bhat, *Angela Lee, MMM Group Ltd.; Peter McMillan, MAA Architects; Lorrie Gauthier, Atomic Energy Of Canada Limited (Canada)*

11:10 Macroencapsulation of Mixed Low-Level Radioactive Waste at the Nevada Test Site – Current Capabilities – 10268

John Wrapp, *NSTec; Frank DiSanza, US DOE Nevada Test Site Office (USA)*

11:35 Saltstone Processing of 0.1 Ci/gal Waste at Savannah River Site - 10531

Aaron Staub, *Chris Beheler, Jason Adams, Savannah River Remediation, LLC (USA)*

Session 32

8:30 AM - 12:00 PM Room 101 C

Environmental Remediation Progress Toward Closure of Contaminated Sites

Co-Chairs: Dale Bignell, *Washington Closure Hanford*; **Steven Houser**, *Oneida Total Integrated Enterprises (USA)*
Sponsor: Erich Evered
Organizer & Paper Reviewer: Steven Houser

8:35 Remediation of Buried Waste at the Idaho National Laboratory Site - 10065
Mark Arenaz, *US DOE (USA)*

9:00 Remediation of Potentially Pyrophoric Mixed-Waste at the 618-7 Burial Ground, Hanford Site - 10399
Alan Funk, *Jeffrey Case, TerranearPMC, LLC; John Darby, Washington Closure Hanford (USA)*

9:25 Rehabilitation of Former Uranium Mining and Milling Sites in Germany (WISMUT Sites) - A Health Physicists Perspective - 10091
Peter Schmidt, *Wismut GmbH (Germany)*

9:50 Case Study Catalyzed Hydrogen Peroxide Treatment of a Trichloroethene (TCE) DNAPL Plume - 10073
Steven Thompson, *Del Baird, Paul Cross, CDM (USA)*

10:20 Almost Mission Impossible: The History and Lessons Learned on Completing the Final Remedy for the Mixed Waste Landfill at Sandia National Laboratories – New Mexico - 10174

Joe Estrada, *NNSA - Sandia Site Office; John Cochran, Sandia National Laboratory (USA)*

10:45 Radiological Release of Monazite Sand Storage Areas at the Great Lakes Naval Training Center - 10231

Joseph Weismann, *John Eberlin, Wade Fillingame, Dave Watters, Tim Taylor, Cabrera Services, Inc; Steven Doremus, David Horton, William Morris, Naval Sea Systems Command, Radiological Affairs Support Office; Howard Hickey, US Naval Facilities Engineering Command (USA)*

11:10 Engineered Containment Systems: Identification of Dominant Ecological Processes for Long Term Performance Assessment and Monitoring - 10424

Brooke Traynham, *James Clarke, Vanderbilt University; Joanna Burger, Rutgers University; William (Jody) Waugh, S.M. Stoller Corporation*

11:35 Nevada Test Site Environmental Remediation Progress Toward Closure of Contaminated Sites - 10325

Kevin Cabble, *US DOE - NNSA/NSO; Patrick Matthews, Stoller-Navarro (USA)*

Session 33

8:30 AM - 12:00 PM Room 105 C

Transportation Risks and Capturing Lessons Learned

Co-Chairs: Mike Nolan, Dade Moeller & Associates; Paul Jones, DeNuke Services, Inc. (USA)
Sponsor & Paper Reviewer: Ella McNeil
Organizers: Paul Jones, Mike Nolan

8:35 The MacArthur Maze and Newhall Pass Fires and Their Implications for Spent Fuel Transport - 10536

Christopher Bajwa, Earl Easton, US NRC (USA)

9:00 Recovery & Reinvestment Act Department of Energy (DOE) Transportation Challenges - 10068

Ella McNeil, US DOE; Jim Portsmouth, EnergySolutions; Randy Dillon, ORAU; Tammy Pressnell, Turnkey Transportation Services LLC (USA)

9:25 Transportation Issues: Simply Random Occurrences or Rather Indicators of Programmatic Failures - 10533

Stephen O'Connor, US DOE; Dana Willaford, US DOE Oak Ridge Operations Office (USA)

9:50 Improving Preparedness for Radiological Transportation Events through Exercises - 10067

Tom Clawson, John Riley, Technical Resources Group, Inc.; Ella McNeil, US DOE (USA)

10:20 Prohibited Items in Radioactive Waste Containers: An Analysis of the Health and Safety Benefits Versus Risks - 10144

Cassandra Muller, Johnelle Koriath, Christopher Timm, PECOS Management Services, Inc. (USA)

11:10 Just How Risky Is It? - Comparisons of the Risks of Transporting Radioactive Waste - 10535

Earl Easton, Christopher Bajwa, US NRC (USA)

Session 34

8:30 AM - 10:15 AM Room 104 AB

Worldwide Management of Spent and Disused Radioactive Sealed Sources

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

8:35 Public-Private Dialogue to Address the National Security Concerns Associated with Disused Radioactive Sealed Sources and the Current Sealed Source Disposition Landscape - 10282

Abigail Cuthbertson, US DOE NNSA; David Martin, Olin T. Hale, US Department of Homeland Security (USA)

9:00 Offsite Source Recovery Project – Ten Years of Sealed Source Recovery and Disposal - 10460

Julia Whitworth, Michael Pearson, Mark Wald-Hopkins, Ioana Witkowski, Los Alamos National Laboratory (USA); Abigail Cuthbertson, US DOE NNSA (USA)

9:25 Use of Radio Frequency Identification Tracking of Packages Containing Radioactive Material - 10446

Ray Clark, US EPA (USA)

9:50 The Role of a Supplier in the Safe and Secure Management of Disused Radioactive Sealed Sources - 10356

Grant Malkoske, ISSPA (Canada); John Miller, International Isotopes, Inc. (USA); Wolfgang Fasten, Eckert & Zeigler (Germany)

Session 35

10:15 AM - 12:00 PM Room 104 AB

Panel: EFCOG Review of DOE Complex Wide Estimates for Waste Generation, Packaging, Treatment and Disposal Needs Due to the ARRA and Baseline Programs

Co-Chairs: W.T. (Sonny) Goldston, Savannah River Nuclear Solutions; Ginger Humphries, Savannah River Remediation, LLC (USA)

Sponsor: W.T. (Sonny) Goldston

Organizers: W.T. (Sonny) Goldston, Ginger Humphries

Panel Reporter: Ginger Humphries

This session will focus on presenting the results from the DOE complex wide coordinated effort conducted by the EFCOG Waste Management Working Group to identify the generation, packaging, treatment and disposal needs to support the American Recovery & Reinvestment Act (ARRA) and baseline scope activities within the DOE cleanup program.

Data presented by the Co-Chairs includes Low-Level Radioactive (LLW), Mixed Low-Level (MLLW), and Transuranic (TRU) wastes anticipated to be dispositioned through Calendar Year 2015. There will be an opportunity to discuss the potential gaps in packaging, treatment, transportation, or disposal needs.

This session is sponsored by the Waste Management Working Group of the Energy Facility Contractors

Tuesday AM

Group (EFCOG), an organization of DOE contractors formed to promote, coordinate, and facilitate information exchange and lessons learned to improve cost effectiveness of DOE operations. *The data and information provided during the workshop is not related to any active procurement and is intended solely as an information exchange.*

Session 36

8:30 AM - 10:15 AM

Room 103 AB

Panel: Graduating Students and New Engineers - Wants and Needs vs. Corporate Wants and Needs

Co-Chairs: Robert Berry, Foxfire Scientific (United Kingdom); Leonel Lagos, Florida International University (USA)

Sponsor & Panel Reporter: Robert Berry

Organizers: Robert Berry, Collin Donohue

This panel focuses 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. With this new approach, both sides can express their wants and needs for a more satisfied workforce and a better work environment.

Panelists: Collin Donohue, Rickover Fellow, Colorado School of Mines; Corhyn Parr, President, UK-YGN (UK); Leydi Velez, (DOE Fellow) Florida International University; James Miller, Texas A&M University, and Desi Crouther, Director Office of Human Capital, US DOE EM

Session 37

10:15 AM - 12:00 PM

Room 103 AB

Panel: International Youth Nuclear Congress/Young Professionals

Co-Chairs: Robert Berry, Foxfire Scientific (United Kingdom); Leonel Lagos, Florida International University (USA)

Sponsor & Panel Reporter: Robert Berry

Organizers: Chris Williams, Leonel Lagos

This panel will focus on the International Youth Nuclear Congress – known as IYNC – and covers views on radioactive waste management from young persons' perspectives from all around the world.

An informal panel 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. By selecting the panel format, it is hoped that the topic will be interactive, stimulating

valuable discussion among the participants and the audience.

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 on issues.

Panelists: Collin Donohue, Rickover Fellow, Colorado School of Mines; James Miller, Texas A&M University; Corhyn Parr, President, UK-YGN (UK); and Rosa Ramirez, US DOE-EM.

Poster Session 38

8:30 AM - 12:00 PM

1st Floor Foyer

LLW, ILW, MW, NORM & TENORM Posters A-F Nuclear Power Plant Posters – G

Topic A: LLW, ILW, MW, NORM and TENORM Waste Processing

Co-Chairs: Lisa Burns, The Shaw Group; Mike Davidson, Tidewater (USA)

Sponsor & Paper Reviewer: Colleen Owens

A1. Radiologic Situation on the Territory Near Uranium-Mining Enterprises and Possibility of Soil Phytoremediation - 10379

Polat Kazymbet, Bagdat Imasheva, Meirat Bakhtin, Roza Mustafina, Serik Shaikhin, Astana Medical University (Republic of Kazakhstan)

A2. The Environmental Restoration Disposal Facility: Hanford's Onsite Disposal Solution for Cleanup Wastes - 10342

Todd Nelson, Bruce Covert, Dale Bignell, Washington Closure Hanford (USA)

A3. Tritium Management and Removal at Tritium Assaying and Dispensing Facility - 10076

SoonHwan Sohn, Kyu-Min Song, Sook-Kyung Lee, Kei-Woo Lee, Byung-Wook Ko, Korea Electric Power Research Institute, KEPCO (Korea)

A4. Calculation of Permeability and Dispersion Coefficients in Unsaturated Porous Media with Fractures - 10344

Cheo Kyung Lee, Myo Zaw Htway, Handong Global University; Sung Paal Yim, Korea Atomic Energy Research Institute (Korea)

A5. Performance Test of Ice Packed Respirator for Tritium Removal - 10117

Sung Paal Yim, Hoan Sung Jung, In-Cheol Lim, Guk-Hoon Ahn, Chang-Woo Seol, Korea Atomic Energy Research Institute; Cheo Kyung Lee, Handong Global University (Korea)

Topic B: L/ILW Waste from D&D/ER Activities

Co-Chairs: Richard Krett, DeNuke Services, Inc.; (USA); Lance Mezga, ORNL (USA)

Sponsor: David Eaton

Paper Reviewer: Richard Krett

- B1. Dexterity Test Data Contribute To Proper Glovebox Over-Glove Use** - 10014
Michael Cournoyer, David Apel, Cindy Lawton, Amanda Castro, George Neal, Julio Castro, Roy Michelotti, Steve Costigan, Los Alamos National Laboratory (USA)
- B2. Technology of Plasma Treating Radioactive Waste: The Step Forward in Comparison with Incineration** - 10166
Mikhail Polkanov, Sergey Dmitriev, Valeriy Gorbunov, Alexander Kobelev, Ilgiz Kadyrov, Fedor Lifanov, Nikolay Spirin, SIA Radon (Russia)
- B3. Removal of Radiocobalt from EDTA-Complexes using Titanium Antimonate Sorbents** - 10305
Risto Harjula, Leena Malinen, Risto Koivula, University of Helsinki (Finland)
- B4. Effectiveness of Decontamination of Fabrics in Compressed Carbon Dioxide or Ozone-Friendly Freon HFC-134a** - 10074
Yury Pokhitonov, Vladislav Kamachev, Khlopin Radium Institute (Russia)

Topic C: Regulatory Implications for LLW, ILW, MW, NORM and TENORM

Co-Chairs: Dick Blauvelt, Navarro Research and Engineering, Inc.; Tammy Monday, Perma-Fix Environmental Services, Inc. (USA)

Sponsor & Paper Reviewer: Dick Blauvelt

- C1. Environmental Aspects and Safety Considerations at Uranium Management Facilities in Romania** - 10373
Gheorghe Vieru, Institute for Nuclear Research; Ioan Muntean, Uranium National Co. (Romania)
- C2. Vector Complex in the Chernobyl Exclusion Zone: 2010-Status and Perspectives** - 10250
Volodymyr Tokarevsky, Ukrainian State Corporation Radon; Olexandr Kretinin, STC KORO; Anatoly Novikov, Technocentre; Volodymyr Kholosha, Ministry of Emergency of Ukraine (Ukraine)
- C3. Waste Information Management System - 2010** - 10296
Walter Quintero, Himanshu Upadhyay, Peggy Shoffner, Leonel Lagos, David Roelant, Florida International University (USA)
- C4. Inspection of the Point of Burial Radioactive Wastage in Tajikistan** - 10178
Dzhamshed Abdushukurov, D.V. Bondarenko, Nazirzhon Buriev, T. Davlatshoev, A.A. Djuraev, Academy of Science of Republic of Tajikistan (Tajikistan)

- C5. Closure of the 92-Acre Area at the Nevada Test Site Area 5 Radioactive Waste Management Site** - 10338
Annette Primrose, John Wrapp, NSTec; Robert Boehlecke, US DOE NNSA/NSO; Jeff MacDougall, Nevada Division of Environmental Protection (USA)
- C6. Environmental Legacy of US Nuclear Weapons Production: Where Is It Now?** - 10313
Sondra Sarten, RS Construction & Fabrication, Inc. (USA)
- C7. ARAO Efforts, Advantages and Disadvantages in Implementing of Process Management, Renovation of the Public Service Process Supported by Information Business System** - 10123
Simona Sucic, ARAO - Marija Fabjan, Marko Kostanjevec, Agency for Radwaste Management (Slovenia)
- C8. Assessment of Exposure Dose for the General Population around Melting Furnace Facilities due to Meteorological Factors upon Recycling of Radioactive Metallic Wastes** - 10071
Ahreum Kim, Jooho Whang, Kyung Hee University (Republic of Korea)
- C9. Problems in Compliance with the Acceptance Criteria for the KONRAD Mine** - 10046
Hardi Krumbach, Hans-Jürgen Steinmetz, Forschungszentrum Jülich GmbH (Germany)

Topic D: Characterization LLW, ILW, MW, NORM and TENORM

Co-Chairs: Frazier Bronson, Canberra Industries Inc - AREVA Group (USA); Gabriele Bandt, TÜV NORD EnSys Hannover (Germany)

Sponsor & Paper Reviewer: Frazier Bronson

- D1. A Physics Investigation of Deadtime Losses in Neutron Counting at Low Rates with Cf-252** - 10444
Louise Evans, Los Alamos National Laboratory; Stephen Croft, Canberra Industries Inc - AREVA Group (USA)
- D2. Validation of Efficiency Calibration for the Clearance Measurement System** - 10086
Wei Hwa-jou, Tsai Tsuey-Lin, Yang Ching-Ho, Men Lee-Chung, Tsai Hung I, Institute of Nuclear Energy Research (Taiwan)
- D3. The Efficiency Characterization of Germanium Detectors at Energies Less than 45 keV** - 10479
Kara Morris, Pauline Blanc, Frazier Bronson, Stephen Croft, Michael Field, Wilhelm Mueller, D. Nakazawa, Ram Venkataraman, Hank Zhu, Canberra Industries Inc - AREVA Group (USA)

D4. Sealion Database: Tracking and Characterization of Legacy Wastes - 10133

Michel Hall, Brett Welty, **James Rivera**, Paul Walker, Portage, Inc.; Brady Orchard, Reese Gannon, Idaho National Laboratory (USA)

D5. An Integrated Waste Assay System Using Tomographic and Segmented Gamma Scanning For Nuclear Power Plant Applications - 10375

Nabil Mena, D Nakazawa, Haori Yang, **S. Kane Smith**, D Petroka, Marcel Villani, Canberra Industries Inc - AREVA Group (USA)

Topic E: Pollution Prevention and Waste Management for LLW, ILW, MW, NORM and TENORM

Co-Chairs: Gabriele Bandt, TÜV NORD EnSys Hannover (Germany); **Lance Mezga**, Oak Ridge National Laboratory (USA)

Sponsor & Paper Reviewer: Gabriele Bandt

E1. A Truly Industrial Solution for the Elimination of Radioactive Oils or Solvents - 10404

William Everett, **Albert Jacobs**, Dewdrops (France)

E2. Radiological Impact Associated to the Use of a NORM Material as a Soil Conditioner in Brazilian Agriculture - 10009

Vanusa Maria Jacomino, Maria Helena Taddei, Brazilian National Commission of Nuclear Energy; Maria Célia Siqueira, Comissão Nacional de Energia Nuclear - Laboratório de Poços de Caldas; Fabiana Dias, Comissão Nacional de Energia Nuclear - Laboratório de Poços de Caldas (Brazil)

E3. Use and Management of NORM Residues (Phosphogypsum Wastes): Agricultural Applications - 10291

Rachid El Mrabet, National Center for Energy, Sciences and Nuclear Techniques (Morocco)

Topic F: Emerging Technologies for LLW, ILW, MW, NORM and TENORM

Co-Chairs: Paul Macbeth, US DOE; **Mike Eisenhower**, Materials & Energy Corporation (USA)

Sponsor & Paper Reviewer: Paul Macbeth

F1. Long-Term Stability Testing Results Using Surrogates and Sorbents for Savannah River Site Organic and Aqueous Wastestreams - 10016

Jody Bickford, Martin Foote, MSE Technology Applications, Inc; Heather Burns, Savannah River Nuclear Solutions (USA);

F2. Decontamination of Uranium and Antimony from the Spent Catalyst for Acrylonitrile Synthesis by Utilizing Phase Segregation of Borosilicate Glass - 10006

Youichi Enokida, Kayo Sawada, Tsuyoshi

Yamada, EcoTopia Science Institute, Nagoya University; Hiroshi Sugai, Three R Corporation (Japan)

F3. NaSelect Multi-Tubular Electrolytic Cell for Sodium Removal from Low Level Waste - 10485

Shekar Balagopal, Scott Suarez, Sai Bhavaraju, Devin Clay, Justin Pendleton, Ceramatec, Inc. (USA)

F4. Addressing Challenging Materials at Oak Ridge National Laboratory - 10248

Sharon Robinson, Bradley Patton, Robert Jubin, Ken Schneider, Oak Ridge National Laboratory; Dirk Van Hoesen, UT-Battelle (USA)

F5. Development of New Treatment Process for Low-Level Radioactive Waste at Tokai Reprocessing Plant - 10403

Atsushi Sugaya, Kenji Tanaka, Shigeru Akutsu, Japan Atomic Energy Agency (Japan)

Topic G: Operational Waste Management in Nuclear Power Plant (NPP) Waste Management

Co-Chairs: Wolfgang Steinwarz, Siempelkamp Nukleartechnik GmbH; **Olaf Oldiges**, GNS mbH (Germany)

Sponsor & Paper Reviewer: Wolfgang Steinwarz

G1. Food Contamination Fraction for Radiological Dose Assessment in Korea - 10353

Youngsik Jang, KHNP-Korea Hydro & Nuclear Co; Doo-Ho Lee, **Gab Bock Lee**, Yang Yanghee, Korea Electric Power Research Institute KEPCO; Jong-Yi Moon, Korea Institute of Nuclear Safety (Korea)

G2. Dispersion Modeling of Liquid Tritium Effluent Released from Wolsong Nuclear Power Plant Site in Korea - 10180

Gab Bock Lee, Doo-Ho Lee, Yang-Hee Yang, Korea Electric Power Research Institute, KEPCO; Su-Yong Nam, GeoSystem Research; Sang-Hun Lee, Kyungpook National University (Korea)

Session 39

1:30 PM - 5:00 PM

Room 102 B

Panel: US DOE - Energy Facility Contractors Group's Knowledge Portal (EFCOG) Review

Co-Chairs: John Longenecker, Longenecker & Associates, Inc.; **Pamela Horning**, B&W Technical Services Group (USA)

Sponsor: John Longenecker

Organizer & Panel Reporter: Mark Frei

This panel will focus on the various areas of EFCOG. EFCOG promotes excellence in all aspects of the operation, management, and integration of DOE facilities in a safe, environmentally sound, efficient and cost effective manner through the ongoing exchange of

information on lessons learned. The purpose of this knowledge portal is to provide a vehicle to allow members to keep abreast of the latest news, issues, and events across the US DOE complex; for the sharing of innovative ideas and practices; and to collaborate virtually on the development and implementation of new processes and practices. A short discussion of EFCOG history and accomplishments will be followed by an overview of each of the Working Groups (WGs) and critical updates.

Panelists: **Pamela Horning**, EFCOG Chair, B&W Technical Services Group; **Joe Yanek**, EFCOG Vice-Chair, Executive Director, Fluor Corporation; **Bob Miklos**, Project Management Working Group Vice-Chair (PMWG), Director, Project Management, Idaho National Laboratory; **William Morrison**, Waste Management Working Group Chair (WMWG), Vice President of Southeast Operations, EnergySolutions, LLC; **Roland Knapp**, Contractor Assurance Working Group Chair (CAWG), Contractor Assurance Officer, Los Alamos National Laboratory; **Al Konetzni**, Integrated Safety Management/Quality Assurance Working Group Sponsor (ISM/QG WG) and EFCOG Vice-Chair Elect, Senior Vice President, Federal Services Eastern Operations, EnergySolutions, LLC; and **Charles Kronvall**, Engineering Practices Working Group Chair (EPWG), Manager of Central Engineering, CH2M HILL Plateau Remediation Company.

Session 40

1:30 PM - 3:10 PM

Room 105 AB

Panel: Contracting Opportunities in the UK with the Nuclear Decommissioning Authority (NDA)

Co-Chairs: **Ron Gorham**, Nuclear Decommissioning Authority; **Fred Sheil**, Sellafield Ltd (United Kingdom)
Sponsor & Panel Reporter: **Fred Sheil**
Organizers: **Fred Sheil, John Mathieson**

This panel will focus on the opportunities at the NDA sites in the United Kingdom. The NDA representatives will outline the forward program of competitions and the Site License Companies will present their procurement plans giving the audience the opportunity for further discussion.

After formal presentations and Q/A, time will also be spent comparing the differences between the DOE EM and UK NDA programs, including the contractor's perspective together with specific future opportunities.

Panelists: **Keith Case**, Sellafield Ltd (UK); **John Dalton**, NDA (UK); and **Brad Smith**, CH2M HILL (UK).

Session 41

3:15 PM - 5:00 PM

Room 105 AB

Program Management Improvements - Planning through Completion - Scope, Cost & Schedule Control

Co-Chairs: **Christopher Timm**, PECOS Management Services, Inc.; **Neil Davis**, Washington Savannah River Company (USA)
Sponsor & Paper Reviewer: **Christopher Timm**
Organizers: **Neil Davis, Sherry M. Keeney**

3:20 D&D Knowledge Management Information Tool - 2010 - 10452

Himanshu Upadhyay, Leonel Lagos, Walter Quintero, Peggy Shoffner, Florida International University; **John De Gregory**, US DOE-HQ; **Jeff Hunter**, Hanford ALARA Center of Technology (USA)

3:45 Tank Operations Contract Construction Management Methodology Utilizing the Agency Method of Construction Management to Safely and Effectively Complete Nuclear Construction Work - 10175

Scott Saunders, Karen Lesko, Peggy Hamilton, Washington River Protection Solutions, LLC; **Tim Heath**, Monte Farner, URS Washington Division (USA)

4:10 Transforming the SRS Environmental Business: Communication and Applied Project Management Principles - 10301

Jeannette Hyatt, Eloy Saldivar, Jr., Savannah River Nuclear Solutions, LLC (USA)

4:35 Risk-Based Project Performance Assessment of Large Projects - 10441

John Greeves, Ralph Stoll, Predicus LLC; **John Tauxe**, Neptune and Company (USA)

Session 42

1:30 PM - 5:00 PM

Room 106 C

Worldwide Perspectives of Radioactive Waste Management - Challenges and Solutions

Co-Chairs: **John Mathieson**, NDA (United Kingdom); **Christer Svemar**, M&C Svemar Consulting (Sweden)
Sponsor: **John Mathieson**
Organizers: **Mark Matthews**
Paper Reviewer: **Gérald Ouzounian**

1:35 Three Decades Development of a HLW and SF Repository in Germany - The Way Ahead - 10500

Enrique Biurrun, DBE TECHNOLOGY GmbH; **Walter Steinger**, Forschungszentrum Karlsruhe; **Siegfried Köster**, Bundesministerium für Wirtschaft und Technologie (Germany)

2:00 The Swedish Process for Selection of a Site for Localization of a Depository for High Level Nuclear Waste - 10528

Carl Reinhold Bråkenhielm, *The Swedish National Council for Nuclear Waste (Sweden)*

2:25 Site Selection for a Geological Repository in France - 10032

Jean-Michel Bosgiraud, *Gérald Ouzounian, Thibaud Labalette, Patrick Landais, Sebastien Farin, ANDRA (France)*

2:50 The US DOE Office of Environmental Management International Collaboration Program Overview: Interactions, Agreements, and Future Direction - 10204

James Marra, Kevin Fox, Tim Jannik, Eduardo Farfan, Savannah River National Laboratory; Dong-Sang Kim, John Vienna, Pacific Northwest National Laboratory; Jay Roach, Idaho National Laboratory; Kurt Gerdes, Ana Han, US DOE (USA); Albert Aloy, Khlopin Radium Institute; Sergey Stefanovsky, SIA Radon; Dmitry Lopukh, Electrotechnical University (Russia); Mikhail Bondarkov, International Radioecology Laboratory (Ukraine)

3:20 A "Smörgåsbord" of Lessons Learned During 32 Years of Siting and Developing Deep Geological Disposal Systems for Long-Lived, Highly-Radioactive, Wastes - 10056

Leif G. Eriksson, *Consultant (USA)*

3:45 Rethinking Site Selection Approaches for Geological Disposal of High-Level Radioactive Waste from Social Psychological Viewpoints - 10182

Ming Zhang, *Geological Survey of Japan, AIST; Takeshi Komai, Junko Hara, National Institute of Advanced Industrial Science and Technology (AIST) (Japan)*

4:10 Update on the Radioactive Waste Position in the UK - 10565

John Dalton, *Bruce McKirdy, Nuclear Decommissioning Authority (United Kingdom)*

4:35 The Potential of Pressurized Water Reactors for Recycle of Americium-Curium - 10376

Mike Thomas, Kevin Hesketh, Andrew Worrall, National Nuclear Laboratory (United Kingdom); Chris Phillips, EnergySolutions (USA)

Session 43

1:30 PM - 5:00 PM

Room 106 B

Progress Worldwide in the Closure of Highly Radioactive Storage Tanks and Associated Facilities

Co-Chairs: *Keith Miller, National Nuclear Laboratory (United Kingdom); Tom Brouns, Pacific Northwest National Laboratory (USA)*

Sponsor: *Tom Brouns*

Organizers: *Tom Brouns, Ryan Dodd*

Paper Reviewer: *Keith Miller*

1:35 Performance Assessment to Support Closure of Single-Shell Tank Waste Management Area C at the Hanford Site - 10402

Susan Eberlein, *Michael Connelly, Marcel Bergeron, Washington River Protection Solutions; Chris Kemp, US DOE - ORP; Elizabeth Rochette, Jeffery Lyon, State of Washington Department of Ecology (USA)*

2:00 EM-21 Alternative Enhanced Chemical Cleaning Program for Sludge Heel Removal - 10308

Michael Hay, William King, Christopher Martino, SRNL (USA)

2:25 Deploying Technology Advancements for Characterizing the Vadose Zone in Single-Shell Tank Waste Management Areas - 10167

Susan Eberlein, *Harold Sydnor, David Myers, Washington River Protection Solutions (USA)*

2:50 Performance Assessment Progress for the F-Tank Farm at Savannah River Site - 10111

Mark Layton, *Savannah River Remediation, LLC (USA)*

3:20 Research in Management of Corrosion in High Level Waste Tanks - 10367

Elizabeth Hoffman, *Phillip Zapp, Thomas Edwards, Savannah River National Laboratory (USA)*

3:45 Investigation of Radiation and Chemical Resistance of Flexible HLW Transfer Hose - 10393

Thomas Skidmore, *Kenneth D. Billings, Savannah River National Laboratory; Michael Hubbard, Savannah River Remediation (USA)*

4:10 General Closure Plan for the F-Tank Farm at Savannah River Site - 10102

Marcia Birk, *Savannah River Remediation (USA)*

4:35 Comparison of Oxalic Acid Cleaning Results at SRS and Hanford and the Impact on Enhanced Chemical Cleaning Deployment - 10310

Renee Spires, *Washington Savannah River Company (USA)*

Session 44

1:30 PM - 5:00 PM

Room 106 A

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

Co-Chairs: *Roger Nelson, US DOE; Terry Wickland, Nuclear Filter Technology (USA)*

Sponsor: *Roger Nelson*

Organizer & Paper Reviewer: *Terry Wickland*

1:35 Characterization, Certification and Shipment of TRU Waste Speed Bumps and Potholes on the Road to WIPP - 10104

Dick Blauvelt, *Steven Calvert, Wayne Ledford, Navarro Research and Engineering, Inc. (USA)*

2:00 AREVA Mobile Hot Cell Technology to Retrieve, Process, Characterize and Package TRU Waste - 10118
Robert Zimmerman, AREVA Federal Services, LLC; Laurent Care, AREVA TA LLC (USA)

2:25 Operating Experience from RH-TRU Processing at the Argonne National Laboratory Building 205 K-Wing Hot Cell Facility - 10488
Devin Hodge, Kevin Crosson, Argonne National Laboratory; John Mackin, PMP, Hukari Technical Services, Inc. (USA)

2:50 Enabling Completion of the Material Disposition Area G Closure at the Los Alamos National Laboratory - 10515
James Blankenhorn, Los Alamos National Laboratory; Lee Bishop, US DOE LASO EM (USA)

3:20 Acoustic Mixing and Treatment of Organic Waste: Results of Proof of Principle - 10168
William Lattin, US DOE; Rodney Arbon, Bechtel BWXT Idaho, LLC; John Bickley, Peter Lucon, Resodyn Corporation (USA)

3:45 Evaluation of 55-gallon Lead-Lined Calibration for the Gamma Modality of the High Efficiency Neutron Counter - 10465
Sean Stanfield, Joe Wachter, Doug Cramer, Sheri Chambers, Curt Baumann, Canberra Industries Inc - AREVA Group; Joe Harvill, Washington TRU Solutions, LLC (USA)

4:10 New Light-Weight Facility Cask for Remote-Handled Waste Disposal at the WIPP Facility, New Mexico, USA - 10050
Richard Farrell, US DOE; Soledad Sifuentes, Curtis Chester, Washington TRU Solutions LLC (USA)

Session 45

1:30 PM - 5:00 PM Room 101 B

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

Co-Chairs: Gabriele Bandt, TÜV NORD EnSys Hannover (Germany); **David Eaton**, CH2M-WG Idaho, LLC (USA)

Sponsor: David Eaton

Organizer & Paper Reviewer: Gabriele Bandt

1:35 Implementation of Requirements on Non-Radioactive Waste Package Constituents - 10449
Peter Brennecke, Karin Kugel, Stefan Steyer, Federal Office for Radiation Protection; Wilma Boetsch, Claudia Haider, ISTec GmbH; Detlef Gründler, Institute for Safety Technology (Germany)

2:00 E.ON Kernkraft's View Regarding the Necessary Steps for a Successful Commissioning of the Emplacement of Radioactive Waste in Final Repository Konrad Mine - 10415

Holger Spann, Friedrich Herzog, Daniel Engelking, E.ON Kernkraft GmbH (Germany)

2:25 Possible Changes in Waste Management Policy Regarding Dilution of LLW to Change Waste Classification: Texas Offers a Better Solution - 10214

J. Scott Kirk, William Dornsife, Jeffrey Skov, Waste Control Specialists LLC (USA)

2:50 The Process and Outcome from the Strategic Best Practicable Environmental Option (BPEO) Study for the Management and Disposal of Very Low Level Waste in the United Kingdom - 10228

Stephen Dooley, Entec UK Ltd (United Kingdom)

3:20 The Role of Specified Landfill in the Implementation of the Sellafield Low Level Waste Strategy - 10023

David Loudon, Sellafield Ltd (United Kingdom)

3:45 The Establishment of Treatment Options for the United Kingdom Low Level Waste Inventory Specifically Metallic LLW Recycling - 10033

Michael Gracey, Low Level Waste Repository; Dave Weatherburn, Matthew Clark, Nuclear Decommissioning Authority (United Kingdom)

4:10 Importing and Exporting Radioactive Materials and Waste for Treatment, Processing and Recycling - 10575

John Greeves, Jim Lieberman, Talisman International, LLC (USA)

4:35 The Underground Test Area Project of the Nevada Test Site: The Role of Modeling, Monitoring and Institutional Controls in Establishing Regulatory Protection of the Public - 10349

Sam Marutzky, Bruce Crowe, Greg Ruskauff, Navarro Nevada Environmental Services; Bill Wilborn, US DOE NNSA NSO (USA)

Session 46

1:30 PM - 5:00 PM Room 101 C

D&D of US DOE Facilities

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

Sponsor: Andrew Szilagy

Organizers: Julia Tripp, Andrew Szilagy

Paper Reviewer: Julia Tripp

- 1:35 A Systematic Approach to Implementing Aging Management at Nuclear Waste Facilities** - 10213
Jou Hwang, P.T. Kuo, Advanced Technologies and Laboratories International, Inc.; Andrew Stevens, William Taylor, US DOE - ORP (USA)
- 2:00 Closure of the Idaho National Laboratory Advanced Test Reactor Complex Catch Tank and Hot Waste Tank Systems** - 10240
Brett Welty, Sara Verba, Donna Nicklaus, Doug Collins, Portage, Inc.; Ernie Carter, Carter Technologies Co. (USA)
- 2:25 Planning for Decontamination of the Plutonium Fuel Form (PuFF) Facility at the Savannah River Site (SRS), South Carolina** - 10095
Richard Abitz, Andrew Duncan, Marie Kane, Raymond Dewberry, Savannah River National Laboratory; Joe Santos, Savannah River Nuclear Solutions, LLC (USA)
- 2:50 Preparing the West Valley Fuel Reprocessing Facility for Demolition West Valley Demonstration Project (WVDP), West Valley, NY, USA** - 10423
Mark Hackett, Cynthia Dayton, Joseph Ebert, David Kurasch, West Valley Environmental Services, LLC; Geoffrey Gorsuch, US DOE (USA)
- 3:20 D&D of the Radioisotope Development Laboratory (3026 Complex) and the Quonset Huts (2000 Complex) at Oak Ridge National Laboratory Funded by the American Recovery and Reinvestment Act** - 10255
T.B. Conley, Ken Schneider, Dirk Van Hoesen, Michael Harper, D.L. Dillinger, ORNL; Theresa M. Walsh, Management Solutions LLC; Marshall Johnson, Restoration Service Inc.; Karen Billingsley, Xcel Engineering Inc (USA)
- 3:45 Removal, Packaging and Disposal of Hanford 327 Building Hot Cells at the Hanford Site, Washington, USA** - 10484
Gary MacFarlan, Worley Parsons Polestar (USA)
- 4:10 In Situ Decommissioning Moves Ahead** - 10345
Charles Negin, Project Enhancement Corporation; Andrew Szilagyi, Yvette Collazo, US DOE; Patricia Lee, John Gladden, Roger Seitz, Savannah River National Laboratory; Michele Wilson, Savannah River Nuclear Solutions (USA)
- 4:35 Determining the Effects of Radiation on Aging Concrete Structures of Nuclear Reactors** - 10243
Cristian Acevedo (DOE Fellow), Florida International University; Mike Serrato, Savannah River National Laboratory (USA)

Session 47

1:30 PM - 5:00 PM

Room 105 C

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 & Paper Reviewer: Allen Roos
Organizers: Steven Brown, Allen Roos

- 1:35 Waste Characterization at the Harshaw FUSRAP Site Cleveland, OH** - 10270
Andrea Kolhoff, Edwin Bave, Richard Waples, Brian Hearty, US ACE (USA)
- 2:00 Formerly Utilized Sites Remedial Action Program Experience, A Site Owner's Guide** - 10235
John MacEvoy, US ACE, Retired (USA)
- 2:25 Implementation of the Formerly Utilized Sites Remedial Action Program: Coordination between the US DOE and the US Army Corps of Engineers** - 10352
Christopher Clayton, Vijendra Kothari, US DOE; Michael Widdop, Joey Gillespie, S.M. Stoller Corporation (USA)
- 2:50 Partnering Success: Coordinating FUSRAP Site Remediation with a Major State Highway Construction Project** - 10055
William Kollar, Shaw Environmental, Inc.; Allen Roos, US ACE (USA)
- 3:20 Incorporation of Multiple Analytical Techniques and Data Streams to Accomplish Remedial Investigation Objectives: Determination of Nature and Extent of Radiological Contamination at the Guterl FUSRAP Site, Lockport, New York** - 10482
Susan Walter, James Kaczor, AECOM; Karen Keil, Peter Lorey, Thomas Kenna, Stephen Bousquet, US ACE (USA)
- 3:45 Optimizing Survey Unit Design to Mitigate the Potential Impacts of Wastewater on Remedial Costs and Final Status Survey Unit Integrity** - 10153
Scott Walnicki, Safety and Ecology Corporation (SEC); Michael Winters, Shaw Environmental & Infrastructure Group; David Hays, US ACE (USA)
- 4:10 FUSRAP Cost and Schedule Risk Analysis** - 10525
Stephen Buechi, Todd Kufel, Fredrick Boglione, David Frothingham, US ACE (USA)
- 4:35 Radionuclide Data Evaluation Guidance - Implementation and Lessons Learned** - 10258
Brian Tucker, Shaw Environmental & Infrastructure, Inc; David Evans, US ACE (USA)

Session 48

1:30 PM - 3:10 PM

Room 103 AB

Panel: ER Projects Contributing to the IAEA - ENVIRONET

Co-Chairs: Horst Monken Fernandes, *International Atomic Energy Agency (Austria)*; **Karen Smith**, *Argonne National Laboratory (United Kingdom)*
Sponsor: Gary Benda
Organizer & Panel Reporter: Horst Monken Fernandes

This panel will feature presentations on the scope of the ER activities contributing to the IAEA Environet. Presentations will include an overview of the approaches and updated techniques employed in these ER Projects. This session is the second in a series of sessions organized at WM2010 by IAEA on the international Environet Network.

Panelists: Christian Kunze, *WISMUT (Germany)*; **Charlotte Cazalla**, *IRSN (France)*; **Elna Fourie**, *NECSA, South African Atomic Energy Commission (South Africa)*; **Sergey Mikheykin**, *FSUE "RosRAO" (Russia)*; **Peter Booth**, *National Nuclear Laboratory (UK)*; and **Lina Al Atar**, *Atomic Energy Commission of Syria (Syria)*.

Session 49

3:15 PM - 5:00 PM

Room 103 AB

Lessons Learned from ER Projects in the UK

Co-Chairs: Angie Jones, *AMEC Earth & Environmental (USA)*; **Brad Smith**, *CH2M HILL International (United Kingdom)*
Sponsor, Organizer & Paper Reviewer: Angie Jones

3:20 The Complex Challenges of Risk and Hazard Reduction for a Legacy Fuel Pond at Sellafield, UK - 10197
Jack Williamson, *David Forsythe, Sellafield Ltd (United Kingdom)*

3:45 Programmisation - A Shift in Managing Decommissioning Challenges, Magnox South, UK - 10100
Mark Lesinski, *Magnox South Ltd (United Kingdom)*

4:10 External Exposure from Contaminated Marine Sediment: Lessons Learned for Dose Assessment and Site Management - 10529
Adrian Punt, *AMEC (United Kingdom)*

4:35 Signature Research on Legacy Management at the National Nuclear Laboratory, UK - 10362
Anthony Banford, *National Nuclear Laboratory (United Kingdom)*

Session 50

1:30 PM - 3:10 PM

Room 104 AB

Panel: US Nuclear Power Plant Waste Management - LLW Processor Issues

Co-Chairs: Mark Lewis, *EnergySolutions*; **Jay Maisler**, *Enercon Services, 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 commercial regulated guidelines. Processors are continuously changing and improving on services, which necessitate periodic updates to stay abreast.

Panelists: John Hagan, *Perma-Fix Environmental Services, Inc.*; **Bill Smart**, *Impact Services, Inc.*; **Jimmy Harris**, *Studsvik*; **Assef Azadeh**, *EnergySolutions*; and **Steve Ferguson**, *Alaron Corporation*.

Session 51

3:15 PM - 5:00 PM

Room 104 AB

Panel: US Nuclear Power Plant Waste Management - LLW Disposal Issues

Co-Chairs: C. Clint Miller, *Pacific Gas & Electric*; **Mark Carver**, *Entergy Services, Inc. (USA)*
Sponsor & Panel Reporter: C. Clint Miller
Organizers: C. Clint Miller, Mark Lewis

This panel will focus on LLW Disposal and provides the opportunity for the representatives of US LLW Disposal Sites to update nuclear power plant managers on site license and facility changes and improvements. US LLW disposal site licenses and waste acceptance criteria periodically change, which necessitate periodic updates to stay abreast.

Panelists: Steve Romano, *Chairman of the Board, American Ecology*; **David Cronshaw**, *Vice President of Business Development, Waste Control Specialists LLC*; **Jeffrey Ginsburg**, *EnergySolutions*; and **William House**, *Vice President of Regulatory Affairs, EnergySolutions*.

Poster Session 52

1:30 PM - 5:00 PM

1st Floor Foyer

**Environmental Remediation Posters A-D
Communication, Education & Training Posters - E
Security, Safety & Safeguards Posters - F**

**Topic A: Environmental Remediation Progress In
Characterization**

Co-Chairs: Angie Jones, AMEC Earth & Environmental; David Wallace, CDM (USA)

Sponsor: Angie Jones

Paper Reviewer: David Wallace

**A1. Remote-Controlled Collimated System
Gamma Locator for Remote Measurements of
Radioactivity Distribution - 10388**

Viktor Volkov, Oleg Ivanov, Sergey Smirnov, Vyacheslav Stepanov, Alexey Danilovich, Anatoly Volkovich, Russian Research Center Kurchatov Institute (Russia)

**A2. Automating Groundwater Sampling at
Hanford - The Next Step - 10223**

Carl Connell, CH2M Hill Plateau Remediation Company; DeVon Cunningham, Lockheed Martin; Scott Conley, CH2M HILL Plateau Remediation Company; R. Douglas Hildebrand, US DOE (USA)

**A3. Investigation into Natural and Anthropogenic
Radionuclide Contamination on the Absheron
Peninsula, Azerbaijan - 10208**

Gudrat Mamedov, Mahammadali Ramazanov, Baku State University; Jalal Naghiyev, Institute of Radiation Problems of ANAS; Afat Mehdiyeva, Masiva Bakirova, National Aerospace Agency of Ministry of Defense Industry; Tjalle Vandergraaf, Providence College (Canada)

**A4. Managing Legacy Records and Information
- 10420**

Jeanie Gueretta, US DOE; Cliff Anglim, Gordon Weaver, Source One Management, Inc. (USA)

**A5. Development of a Biosensor for Detection of
Phosphate Species in Uranium Contaminated
Ground Water and Wastewater Sediments
- 10314**

Serkan Akar (DOE Fellow), Vekalet Tek, Leonel Lagos, Puneet Gill, Norman Munroe, Florida International University (USA); Adam Bange, Xavier University; Thomas Thundat, Oak Ridge National Laboratory (USA);

**A6. Remedial Investigation of Hanford Site
Releases to the Columbia River - 10559**

Jeff Lerch, Larry Hulstrom, Washington Closure Hanford, LLC (USA)

**Topic B: Environmental Remediation Progress in
Modeling**

Co-Chairs: Angie Jones, AMEC Earth & Environmental; Del Baird, CDM (USA)

Sponsor: Angie Jones

Paper Reviewer: Del Baird

**B1. Theoretical Consideration in Designing a
Sediment-Packed Column for Phosphate and
Polyphosphate Transport Study under
Saturated Flow Conditions Relevant to the
DOE-Hanford Site - 10489**

Prabhakar Pant, Leonel Lagos, Florida International University (USA)

**B2. Dispersion of Radionuclides in Aquatic
Ecosystems: Remedial Actions - 10374**

Rachid El Mrabet, Nabil Dehbi, A. Laissaour, National Center for Energy, Sciences and Nuclear Techniques (Morocco)

**B3. Model Uncertainty Approaches – Frenchman
Flat Corrective Action Unit, Nevada Test Site
- 10350**

Greg Ruskauff, **Bruce Crowe**, Navarro Nevada Environmental Services (USA)

**Topic C: Environmental Remediation Corrective
Actions - Part 1 of 2**

Co-Chairs: Angie Jones, AMEC Earth & Environmental; Steven Houser, Oneida Total Integrated Enterprises (USA)

Sponsor: Angie Jones

Paper Reviewer: Steven Houser

**C1. Evaluation of 14C Release Characteristics in
Korean Pressurized Water Reactor Nuclear
Power Plants - 10185**

Yang Yanghee, Gab-Bock Lee, Korea Electric Power Research Institute, KEPCO (Korea)

C2. Safety Upgrading of Maisiagala Site - 10416

Stasys Motiejunas, Algirdas Vaidotas, Radioactive Waste Management Agency; Arunas Gudelis, Institute of Physics (Lithuania); Michel Dutzer, ANDRA (France);

**C3. Groundwater Monitoring Wells Installed in a
Radioactive and Hazardous Waste Landfill
Using Direct Push Technology in Lieu of
Conventional Drilling Methods - 10037**

Wendy Stewart, Marc Hill, CDM (USA)

**C4. Methods to Determine Corrective Action
Boundaries at Aerially-Dispersed Radiological
Release Sites - 10334**

Raymond (Lynn) Kidman, Harold Anagnostopoulos, Patrick Matthews, Stoller-Navarro; Robert Boehlecke, Kevin Cabble, US DOE NNSA/NSO (USA)

**C5. Low-Level Perchlorate Contamination and
Complex Regulatory Requirements at the
Burn Site Groundwater Investigation Study**

Area, Sandia National Laboratories/New Mexico - 10395

Michael Skelly, Weston Solutions, Inc.; John Cochran, David Miller, Sandia National Laboratory; John Gould, US DOE (USA)

Topic D: Environmental Remediation Corrective Actions - Part 2 of 2

Co-Chairs: Angie Jones, AMEC Earth & Environmental; John Kristofzski, CH2M HILL (USA)

Sponsor: Angie Jones

Paper Reviewer: John Kristofzski

- D1. Response of Hanford Site Soil Arthrobacter Isolates to Uranium Contamination - 10493**
Reshmi Banerjee, Denny Carvajal, Yelena Katsenovich, Leonel Lagos, Berrin Tansel, Chenzhong Li, Florida International University (USA)
- D2. Adsorption of Dissolved Metals in the Berkeley Pit using Thiol-Functionalized Self-Assembled Monolayers on Mesoporous Supports (Thiol-SAMMS) - 10150**
Amaury Betancourt (DOE Fellow), Florida International University; Dawn Wellman, Shas Mattigod, Pacific Northwest National Laboratory (USA)
- D3. Use of Gas Transported Reactants for Uranium Remediation in Vadose Zone Sediments - 10289**
Jim Szecsody, Lirong Zhong, Michael Truex, Tom Resch, Mark Williams, Pacific Northwest National Laboratory (USA)
- D4. The Role of Organic Carbon in Facilitating Mercury Sorption and Retention in the Soil: Some Field Evidence from Oak Ridge, Tennessee - 10391**
Prabhakar Pant, Marshall Allen, Berrin Tansel, Florida International University (USA)
- D5. Hybrid Wet Technology for Soil Decontamination - 10294**
Volodymyr Tokarevsky, Ukrainian State Corporation Radon; Gennady Lobach, Technocentre (Ukraine)
- D6. Infiltration and Injection of a Ca-Citrate-PO4 Solution to Form Apatite InSitu for Sr-90 Remediation at the Hanford 100N Area – An Update - 10115**
Jim Szecsody, John Fruchter, Vince Vermeul, Mark Williams, Brad Fritz, Donald Mendoza, Jim McKinley, Pacific Northwest National Laboratory (USA); Robert Moore, Sandia National Laboratories (USA)
- D7. A Study of the Mercury (II) Sorption and Transport with Oak Ridge Reservation Soil - 10222**
Yelena Katsenovich, Georgio Tachiev, Hector R. Fuentes, David Roelant, Alexander Henao, Florida International University (USA)

Topic E: Public Communication, Participation, Education and Training

Co-Chairs: Helen Belencan, Karen Guevara, US DOE – Savannah River (USA)

Sponsor: Helen Belencan

Paper Reviewer: Cherri DeFig-Price

- E1. Historical Data Recovery for Accelerated Site Closure, Nevada Test Site, Nevada - 10336**
Anne White, Annette Primrose, NSTec (USA)
- E2. What Matters to Citizens Living Near the Nevada Test Site? - 10220**
Helen Neill, University of Nevada, Las Vegas (USA)
- E3. Communication Uranium Mine in the Decommissioning with Regional and Local Society - 10271**
Cicero Cavini, Brazilian Nuclear Energy Commission. Poços de Caldas Laboratory (Brazil)

Topic F: Security, Safety and Safeguards

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

Sponsor & Paper Reviewer: Kim Auclair

- F1. A Study on the Nuclear Proliferation Resistance Assessment of Fuel Cycle in Korea - 10126**
Yoon Hee Lee, Jongkuk Lee, Kun Jai Lee, KAIST (Korea)
- F2. Precision of the Accidentals Rate in Neutron Coincidence Counting - 10475**
Nabil Mena, Stephen Croft, Pauline Blanc, Canberra Industries Inc - AREVA Group (USA)
- F3. Ensuring Enhanced Nuclear Safety at Sellafield During the Remediation of Legacy Facilities - 10057**
Jack Williamson, Sellafield Ltd (United Kingdom)

March 10, Wednesday AM

Session 53

8:30 AM - 10:10 AM

Room 102 B

Panel: US DOE Procurement and Contracting Opportunities

Co-Chairs: John Longenecker, Longenecker & Associates, Inc.; Cathy Hickey, URS Corporation (USA)

Sponsor & Panel Reporter: Cathy Hickey

Organizers: John Longenecker, Cathy Hickey

Wednesday AM

The panel will focus on the procurement process and what lessons learned and best practices have been developed by US DOE EM and NNSA over the last year. Senior DOE Contracting Officials will share their visions. This panel compliments Panel 54 which focuses on US DOE Contractor's Procurement and Contracting activities. The panel will be open to all WM2010 participants and Exhibitors.

Panelists: **John Surash**, *DAS Acquisition & Project Management DOE-EM*; **Ralph E. Holland**, *Assistant Director, Environmental Management Consolidated Business Center, US DOE-EM CBC*; **Patty Wagner**, *Manager, Sandia Site Office, US DOE NNSA*; **George Johnson**, *Strategic Marketing Consultants*

Session 54

10:15 AM - 12:00 PM **Room 102 B**

Panel: US DOE Contractor's Procurement and Contracting Opportunities

Co-Chairs: **Steven Houser**, *Oneida Total Integrated Enterprises (USA)*; **John Coffman**, *DeNuke Services, Inc. (USA)*

Sponsor & Panel Reporter: **Steven Houser**
Organizers: **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. Award fee is based partially on the contractor's success in achieving specific goals for subcontracts with small and disadvantaged businesses. This session complements Session 53 which focuses on contracting activity directly with the US DOE. WM2010 Exhibitors are encouraged to attend this panel session.

Panelists: **Ralph E. Holland**, *Assistant Director, Environmental Management Consolidated Business Center, US DOE*; **Dave Oren**, *Vice-President, CH2MHill*; **Keith Joy**, *Director, Small Business Programs, Oak Ridge National Laboratory*; **Jeff Stevens**, *Chief Operating Officer, Energy Solutions Federal*; and **Chuck Bernhard**, *Senior Business Development Manager, B&W Technical Services Group*.

Session 55

8:30 AM - 10:10 AM **Room 105 AB**

Panel: Blending US Commercial Low-Level Waste to Modify its Class to Disposal: Risk Informed or Deregulation?

Co-Chairs: **Larry Camper**, *US NRC*
Christine Gelles, *US DOE (USA)*
Sponsor & Organizer: **Larry Camper**
Panel Reporter: **Maurice Heath**

This panel focuses on examining the ongoing and increasing practice of blending US low-level radioactive waste to modify its class to facilitate disposal. The discussion will address blending of Class B and C waste with Class A waste to reduce the overall waste stream to Class A waste. The panel will also examine if this practice should be viewed as risk-informed or deregulation in nature.

Panelists: **Christianne Ridge**, *US NRC*; **Thomas Magette**, *Senior VP, Nuclear Regulatory Strategy, EnergySolutions*; **William Dornsife**, *VP, Waste Control Specialists LLC*; **James Clarke**, *Professor, Vanderbilt University*; **Michael Mobley**, *Chair, Southeast Compact Commission* and **Diane D'Arigio**, *Nuclear Research Information Services (NIRS)(USA)*.

Session 56

10:15 AM - 12:00 PM **Room 105 AB**

Panel: Disposition of DOE High-Activity Mixed Waste: Post 2010: Problematic or No Problem?

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

This topic focuses on the disposition of DOE high-activity mixed hazardous/radioactive waste (MW) and other problematic mixed waste streams. US DOE sites have the bulk of the inventory of high-activity MW, but even small volume orphan streams can cause problems to their owners. There is a window of opportunity for disposition of LDR treated mixed US DOE LLW at the Nevada Test Site, but shipments to date have fallen far short of projections and needs. Will ARRA stimulus funding help this shortfall? When the NTS window is closed in 2010 what options could be and/or should be pursued to assure 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? Will the WCS disposal site make the mixed waste challenges of today a no-never mind issue down the road?

Panelists: **Dick Blauvelt**, *Senior Technical Specialist, Navarro Research and Eng., Inc.*; **Christine Gelles**, *Director, Office of Disposal Operations, US DOE*; **Jeffrey Mousseau**, *Bechtel BWXT Idaho, LLC*; **Frank DiSanza**, *US DOE NSO*; **Chris Duy**, *Environmental Manager, Los Alamos National Laboratory*; **Paul Larsen**, *EnergySolutions*; **Renee Echols**, *Perma-Fix Environmental Services*; and **Michael Lauer**, *VP of Business Development, Waste Control Specialists LLC*.

Session 57

8:30 AM - 12:00 PM

Room 103 AB

Performance Assessment of Geological Disposal Systems

Co-Chairs: **Simon Kwong**, *National Nuclear Laboratory (United Kingdom)*; **Tjalle Vandergraaf**, *Providence College (Canada)*

Sponsor & Paper Reviewer: **Tjalle Vandergraaf**
Organizers: **Tjalle Vandergraaf, Simon Kwong**

- 8:35 A New Initiative for Developing Advanced Simulation Capabilities for Environmental Management (ASCEM) - 10470**
Ming Zhu, *Russell Patterson, Roger Nelson, John Wengle, US DOE; Juan Meza, Lawrence Berkeley National Laboratory; David Moulton, Paul Dixon, Los Alamos National Laboratory; Ian Gorton, Mark Freshley, Pacific Northwest National Laboratory; Roger Seitz, Savannah River National Laboratory (USA)*
- 9:00 On the Accuracy of Parameters Derived from Permeation and Diffusion Experiments - 10134**
Ming Zhang, *Geological Survey of Japan, AIST (Japan)*
- 9:25 Coupling Diffusive Transport and Chemical Reaction in the Generalised Repository Model (GRM) - 10047**
Simon Kwong, *Joe Small, National Nuclear Laboratory (United Kingdom)*
- 9:50 Tracking the Chemical Footprint of Surface-Runoff Infiltration on Groundwater Recharge in an Arid Region - 10454**
Omar Al-Qudah, *John Walton, Arturo Woocay, University of Texas at El Paso (USA)*
- 10:20 Perspectives of Radioactive Waste Disposal in Germany - 10448**
Peter Brennecke, *Bundesamt für Strahlenschutz, Salzgitter (Germany)*
- 10:45 Treatment of Human Intrusion into a Repository for Radioactive Waste in Deep Geological Formations - 10010**
Thomas Beuth, *Martin Navarro, Gesellschaft für Anlagen- und Reaktorsicherheit (GRS) mbH; (Germany)*
- 11:10 Analytical Study on Groundwater Flow System with Climate Change: Case Study for Boso Peninsula in Japan - 10371**
Masahiro Munakata, *Ryutaro Sakai, Maki Namekawa, Hiroataka Fuchiwaki, Japan Atomic Energy Agency, Nuclear Safety Research Center (Japan)*

11:35 Groundwater Modeling in Support of Remedial Process Optimization: Implementing a Developing Conceptual Site Model into Comparative Remedy Analyses - 10319

Alex Spiliotopoulos, *Matthew Tonkin, S.S. Papadopoulos & Associates, Inc; David Shrimpton, Jon Blount, Tom Simpkin, CH2M Hill Plateau Remediation Company; James Hanson, US DOE (USA)*

Session 58

8:30 AM - 10:15 AM

Room 104 AB

DOE Yucca Mountain Update: HLW and SNF Disposal and Perspectives from Around the Mountain

Co-Chairs: **Linda Lehman**, *CH2M HILL Plateau Remediation Company (USA)*; **Christer Svemar**, *M&C Svemar Consulting (Sweden)*

Sponsor: **Leif G. Eriksson**

Organizers: **Linda Lehman, Leif G. Eriksson**
Paper Reviewer: **Linda Lehman**

- 8:35 Why We Can Not "Solve" the Radioactive Waste "Problem" With the Current Science, Technology, Regulations and Societal Demands - 10085**
Frank Parker, *Vanderbilt University (USA)*
- 9:00 Oxidation/Reduction Status of Water Pooled in a Penetrated Nuclear Waste Container - 10265**
Lubna Hamdan, *John Walton, Omar Al-Qudah, University of Texas at El Paso; Arturo Woocay, Instituto Tecnológico de Ciudad Juarez (Mexico)*
- 9:25 Quo Vadis, Herr NucleUS? - 10018**
Leif G. Eriksson, *Consultant (USA)*
- 9:50 US Nuclear Industry Participation in the Yucca Mountain Licensing Process - 10049**
Rod McCullum, *Michael Bauser, NEI (USA)*

Session 59

10:15 AM - 12:00 PM

Room 104 AB

Global Advances in Repository Sciences and Engineering

Co-Chairs: **Jean-Michel Bosgiraud**, *ANDRA (France)*; **Enrique Biurrun**, *DBE TECHNOLOGY GmbH (Germany)*

Sponsor & Paper Reviewer: **Leif G. Eriksson**
Organizers: **Leif G. Eriksson, Roger Nelson**

- 10:20 Salt Rock Mechanics — Prediction vs. Performance - WIPP Provides Answers - 10411** **Frank Hansen**, *Sandia National Laboratory (USA)*

Wednesday AM

10:45 Robustness - A Design Principle for the Operation of a Repository for Heat-generating Waste? - 10011

Stefan Weber, Frank Peiffer, GRS mbH (Germany)

11:10 Technical Milestones for Emplacing Vitrified Waste Canisters into Horizontal Disposal Drifts in a Clay Host Formation - 10019

Jean-Michel Bosgiraud, Daniel Delort, Alain Roulet, Olivier Glenet, Jean-Jacques Guenin, ANDRA (France)

11:35 Thermal Analyses of a Generic Salt Repository with High-Level Waste - 10429

Daniel Clayton, Sandia National Laboratories (USA)

Session 60

8:30 AM - 12:00 PM

Room 106 C

Worldwide Technical Innovation in HLW Treatment

Co-Chairs: Terri Fellingner, Savannah River Remediation (USA); **Christian Ladirat**, CEA Marcoule (France)

Sponsor: Tom Brouns

Organizers: Tom Brouns, Christian Ladirat

Paper Reviewer: Terri Fellingner

8:35 Hanford Tank Waste – What is in it? Where is it going? - 10277

Reid Peterson, Sandy Fiskum, Lanee Snow, Pacific Northwest National Laboratory; **Rick Shimskey**, Pacific Northwest National Laboratory; **Matthew Edwards**, Battelle PNNL (USA)

9:00 Process Testing Results and Scaling for the Hanford Waste Treatment and Immobilization Plant (WTP) Pre-treatment Engineering Platform - 10173

Dean Kurath, Lenna Mahoney, Jim Huckaby, Richard Daniel, David Baldwin, Brian Rapko, Pacific Northwest National Laboratory; **Steve Barnes**, URS; **Rob A. Gilbert**, US DOE (USA)

9:25 Role of Dawsonite in Aluminum Solubility for Hanford Tank Waste Treatment - 10323

Stephen Agnew, Columbia Energy & Environmental Services, Inc. (USA)

9:50 Application of a Thin Film Evaporator System for Management of Liquid High Level Wastes at Hanford - 10170

Rick Tedeschi, Washington River Protection Solutions; **Robert Wilson**, Columbia Energy & Environmental Services, Inc. (USA)

10:20 Application of Membrane Technology to Minimize Liquid Waste from Reprocessing Plants - 10183

Yasutomi Morimoto, Takashi Kato, Mamoru Numata, Yasuhiro Suzuki, JGC Corporation

(Japan); **Sai Bhavaraju**, Justin Pendleton, Shekar Balagopal, Ceramatec, Inc. (USA); **Hiroshi Ishida**, JGC Corporation (Japan)

10:45 Lithium Hydrotalcite Method for Alumina Removal from Hanford Waste - 10234

Donald Geniesse, AREVA Federal Services, LLC (USA)

11:10 Resorcinol-Formaldehyde Ion Exchange Resin Chemistry for High Level Waste Treatment - 10161

Charles Nash, Mark Daignan, Savannah River National Laboratory (USA)

11:35 Fluidized Bed Steam Reforming Technology Demonstration for Conversion of Savannah River Tank 48 Waste to a Granular Carbonate Product - 10162

Christina Payne, Brent Evans, J. Brad Mason, Arlin Olson, Kevin Ryan, Vishal Vora, THOR Treatment Technologies, LLC (USA)

Session 61

8:30 AM - 12:00 PM

Room 106 B

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

Co-Chairs: Robert Hiergesell, Savannah River National Laboratory; **Martin Letourneau**, US DOE (USA)

Sponsor & Paper Reviewer: Robert Hiergesell

Organizers: Robert Hiergesell, Martin Letourneau

8:35 Performance Assessment Community of Practice - 10468

Roger Seitz, Savannah River National Laboratory; **David Kosson**, Vanderbilt University; **Martin Letourneau**, US DOE (USA)

9:00 A Regulatory Perspective of Monitoring and Assessing Performance of Engineered Surface Barriers - 10138

Hans Arlt, US NRC (USA)

9:25 Projected Impact of Sulfate Attack on the Long-Term Performance of a Concrete Repository - 10252

Greg Flach, Savannah River National Laboratory (USA)

9:50 Probabilistic Durability Analysis of Cementitious Materials under Combined Sulfate Attack and Calcium Leaching - 10149

Sankaran Mahadevan, Sohini Sarkar, David Kosson, Vanderbilt University; **Vanderbilt University and CRES**; **Kevin Brown**, Vanderbilt University (USA); **J.C.L. Meeussen**, H. Van Der Sloot, Energy Research Centre of the Netherlands (The Netherlands)

10:20 Distribution and Range of Nine Radionuclide Sorption Coefficients in a Savannah River Site Aquifer: Stochastic Modeling Considerations - 10259
Daniel Kaplan, Savannah River National Laboratory; Kelly Grogan, Robert Fjeld, Timothy DeVol, John Coates, Clemson University; John Seaman, University of Georgia (USA)

10:45 Model Implementation to Evaluate the Collective Future Radionuclide Releases from Multiple Facilities at the Savannah River Site - 10145
Robert Hiergesell, Frank Smith, Luther Hamm, Mark Phifer, Robert Swingle, Savannah River National Laboratory (USA)

11:10 The Use of Collective Dose for Optimization of a Low-Level Waste Site Closure Cover - 10158
Greg Shott, Vefa Yucel, National Security Technologies, LLC (USA)

11:35 The Influence of Future Human Behaviors in Performance Assessment - 10483
Ralph Perona, Paul Black, John Tauxe, Neptune and Company (USA)

Session 62

8:30 AM - 10:15 AM Room 106 A

Waste Optimization/Minimization During D&D

Co-Chairs: Robert Woodard, EnergySolutions (USA); Maria Lindberg, Studsvik UK Ltd (United Kingdom)
Sponsor: Maria Lindberg
Organizers: Maria Lindberg, Jas Devgun
Paper Reviewer: Robert Woodard

8:35 Characterization and Optimization of Quantitative Waste Volume Determination Technique for Hanford Waste Tank Closure - 10035
David Monts, Ping-Rey Jang, Zhiling Long, O. Perry Norton, Lawrence Gresham, Mississippi State University (USA)

9:00 Waste Management and Minimization During Decontamination And Decommissioning (D&D) Of The Pluto Disassembly Facility, Nevada Test Site, Nevada - 10340
 Mark Burmeister, NNES; **John Fowler**, Navarro Nevada Environmental Services Rebecca King, Douglas Frenette, National Security Technologies (USA); Robert Boehlecke, Kevin Cabble, US DOE NNSA/NSO (USA)

9:25 The Development of an Integrated Waste Management Approach for Irradiated Graphite - 10131
Anthony Banford, Prof Harry Eccles, Richard Jarvis, David N. Ross, National Nuclear Laboratory (United Kingdom)

9:50 Management and Status of Uranium Bearing Waste in Japan Atomic Energy Agency (JAEA) - 10303
Kazuhiko Sato, Shinji Kawatsuma; Mami Horita, Toshihisa Sasaki; Tatsuo Saito, Yoshiaki Nakatsuka, Masaru Ohuchi, Shinichi Takebe, Japan Atomic Energy Agency (Japan)

Session 63

10:15 AM - 12:00 PM Room 106 A

Transport of Radioactive Materials - Operational and Analysis Highlights

Co-Chairs: Christopher Bajwa, Earl Easton, US NRC (USA)
Sponsor: Larry Harmon
Organizers: Richard Yoshimura, Larry Harmon
Paper Reviewer: Christopher Bajwa

10:20 Final Campaign for the Packaging and Transportation of Depleted Uranium for Disposition from the Savannah River Site - 10285
Jeb Berg, Cavanagh Services Group, Inc.; Dawn Gillas, US DOE / SR / AMNMSP (USA)

10:45 Transport of Mox Fuel: A Continuous Challenge - 10201
Bernard Louzeau, AREVA International (France)

11:10 The Potential and Beneficial Use of Weigh-In-Motion (WIM) Systems Integrated with Radio Frequency Identification (RFID) Systems for Characterizing Disposal of Waste Debris to Optimize the Waste Shipping Process - 10266
Robert Abercrombie, Oak Ridge National Laboratory; Dooley Buckner, D. Dean Newton, Bechtel Jacobs Company, LLC (USA)

11:35 Simulation of Impact Limiter Crushing of RAM Packages Under 9m Drop Test Conditions - 10090
Martin Neumann, Frank Wille, Linan Qiao, Viktor Ballheimer, Steffen Komann, BAM Federal Institute for Materials Research and Testing (Germany)

Session 64

8:30 AM - 12:00 PM Room 101 B

Technical Innovations in Environmental Remediation and Site Closure

Co-Chairs: Ed Alperin, Shaw Environmental & Infrastructure Group; Del Baird, CDM (USA)
Sponsor: Angie Jones
Organizers: Angie Jones, Del Baird
Paper Reviewer: Ed Alperin

Wednesday AM

- 8:35 Challenges and Solutions Encountered during the Deployment of the Turn-Key CRATER™ System at the River Corridor Closure Project at the US DOE 's Hanford Site - 10384**
Edward Traverso, Washington Closure Hanford; J Stewart Bland, Chesapeake Nuclear Services; Paul Steinmeyer, Radiation Safety Associates (USA)
- 9:00 A Viability Program for the Safety Systems Under the Savannah River Remediation Contract at the Savannah River Site - 10440**
Bruce Wiersma, Savannah River National Laboratory; Matthew Maryak, Karthik Subramanian, Savannah River Remediation (USA)
- 9:25 Savannah River Site - Tank 18/19 Wall Sampler Performance - 10368**
Bruce Wiersma, Robert Leishear, Mark Fowley, Rick Minichan, Tim Steeper, Jerry Corbett, Savannah River National Laboratory; William Vetsch, ACTS, Inc.; Thomas France, Bruce Martin, George Thaxton, Savannah River Remediation, LLC; (USA)
- 9:50 Non-Intrusive Characterization of the 618-10 and 618-11 Burial Grounds at the Hanford Site, Washington - 10343**
Darrin Faulk, Nelson Little, Washington Closure Hanford (USA)
- 10:20 Reactant Carrier Microfoam Technology for In-Situ Remediation of Radionuclide and Metallic Contaminants in Deep Vadose Zone - 10159**
Shas Mattigod, Lirong Zhong, Dawn Wellman, Danielle Jansik, Pacific Northwest National Laboratory; Martin Foote, Andrea Hart, MSE Technology Applications, Inc; (USA);
- 10:45 Scale-Up Testing – Foam as a Remedial Amendment Carrier - 10040**
Martin Foote, MSE Technology Applications, Inc; Dawn Wellman, Lirong Zhong, Shas Mattigod, Pacific Northwest National Laboratory; Andrea Hart, (USA)
- 11:10 Identifying and Remediating Submunitions at the Tonopah Test Range (American Reinvestment and Recovery Act Funded) - 10327**
Mark Krauss, Stoller-Navarro; Kevin Cabbie, US DOE - NNSA/NSO (USA)

Session 65

8:30 AM - 12:00 PM

Room 101 C

Groundwater Environmental Remediation Projects

Co-Chairs: John Morse, US DOE; Moses Jaraysi, CH2M HILL Plateau Remediation Company (USA)

Sponsor: Linda Lehman
Organizers: Moses Jaraysi
Paper Reviewer: John Kristofzski

- 8:35 Systematic Application of Flow-and-Transport Modeling for Wellfield Design: The Hanford 200-ZP-1 Groundwater Pump-and-Treat Remedy - 10320**
Matthew Tonkin, Marinko Karanovic, S.S. Papadopulos & Associates, Inc; Mark Byrnes, CH2M HILL Plateau Remediation Company; John Morse, US DOE; Christopher Murray, Pacific Northwest National Laboratory; Paul Clement, CH2M Hill, Inc. (USA)
- 9:00 Mitigation of the Contaminated Groundwater Plume at the West Valley Demonstration Project, New York, USA - 10409**
Lettie Chilson, Linda Michalczak, John Chamberlain, Cynthia Dayton, West Valley Environmental Services, LLC; Mark Bellis, US DOE; Richard Frappa, AMEC Geomatrix (USA)
- 9:25 Meeting Challenges to Optimize Ground Water Remediation as Part of the Moab Uranium Mill Tailings Remedial Action Project - 10481**
Joe Ritchey, Moab TAC Team; Donald Metzler, Liz Glowiak, US DOE; Ken Pill, Pro2Serve (USA)
- 9:50 Results from Recent Science and Technology Investigations Targeting Chromium in the 100-D Area, Hanford Site, Washington, USA - 10287**
Scott Petersen, CH2M HILL Plateau Remediation Company; John Morse, Michael Thompson, US DOE; Matthew Tonkin, S. S. Papadopulos & Associates, Inc. (USA)
- 10:20 Modeling Transport in the Down Gradient Portion of the 200-PO-1 Operable Unit at the Hanford Site - 10165**
Sunil Mehta, Alaa Aly, Amena Mayenna, INTERA; Charles Miller, CH2M HILL Plateau Remediation Company (USA)
- 10:45 Application of Remedial Process Optimization for Chromium Remediation at the Hanford Site, Washington, USA – 9277 - 10286**
Jeffrey Riddelle, Tom Simpkin, CH2M HILL Plateau Remediation Company; Matthew Tonkin, S. S. Papadopulos & Associates, Inc.; James Hanson, US DOE (USA)
- 11:10 The Underground Test Area (UGTA) Sub-Project of the Nevada Test Site: Building Confidence in Groundwater Flow and Transport Models at Pahute Mesa through Focused Characterization Studies - 10337**
Gayle Pawloski, Lawrence Livermore National Laboratory; Sig Drellack, National Security Technologies, LLC; Jeff Wurtz, Navarro Nevada Environmental Services (USA)

11:35 The Move Towards Green and Sustainable Remediation – Implications for Soil and Groundwater Remediation - 10218
Tom Simpkin, Paul Favara, CH2M HILL Plateau Remediation Company (USA)

Session 66

8:30 AM - 10:15 AM Room 105 C

Reaching Out To Communities - International Experiences

Co-Chairs: *Linda Ulland, University of MN Central Regional Partnership; Heather Klebba, Nuclear Filter Technology (USA)*

Sponsor: *Connie Callan*

Organizers: *Leonel Lagos, Heather Klebba*

Paper Reviewer: *Linda Ulland*

8:35 Communicating on Nuclear Waste: Feedback of the Visiatome Experience - 10524
Cedric Garnier, CEA Marcoule (France)

9:00 Public Outreach in the Post Closure Stage: The Fernald Preserve and Weldon Spring Experience - 10354

Jane Powell, US DOE Office of Legacy Management; Sue Walpole, Yvonne Deyo, S. M. Stoller Corporation (USA)

9:25 Pride-effect in a Nuclear Community: Local Perceptions Regarding Spent Nuclear Fuel Repository in the Municipality of Eurajoki, Finland - 10192

Matti Kojo, University of Tampere; Mika Kari, University of Jyväskylä (Finland)

9:50 Tangible Results of Nuclear Information Centre Ljubljana - 10306

Igor Jencic, Jozef Stefan Institute (Slovenia)

Session 67

10:15 AM - 12:00 PM Room 105 C

Building a Nuclear Workforce for the 21st Century

Co-Chairs: *Leonel Lagos, Florida International University (USA); John Dalton, NDA (UK)*

Sponsor: *John Dalton*

Organizers: *Heather Klebba, Leonel Lagos*

Paper Reviewer: *Heather Klebba*

10:20 Closing the Nuclear Skills Gap in the United Kingdom Consultancy Sector - 10432

David Whitmore, Atkins Limited; Jean Llewellyn, National Skills Academy Nuclear; Clive Smith, Cogent SSC Limited (UK)

10:45 US DOE-Florida International University Science and Technology Workforce Development Program - 10200
Leonel Lagos, Florida International University (USA)

11:10 The Cost of a Sustainable Energy Future - 10494

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

Poster Session 68

8:30 AM - 12:30 PM 1st Floor Foyer

Crosscutting & General Policies Posters - A D&D Posters B-D Packaging & Transportation Posters F-G

Topic A: Crosscutting & General Policies, Programs and Technologies

Co-Chairs: *Donald Wood, GaeaTech Services; David Wallace, CDM (USA)*

Sponsor: *Christopher Timm*

Paper Reviewer: *David Wallace*

A1. Hanford Site Welding Program, Successfully Providing a Single Site Function for Use by Multiple Contractors - 10042

Gary Cannell, Fluor Government Group/ CH2M Hill Plateau Remediation Company; Charles Kronvall, CH2M HILL Plateau Remediation Company; Terry Ostrander, Mission Support Alliance (USA)

A2. Managing in the Face of Complexity: A Small Business Perspective on Living Up to and Delivering on Prime Contractor Expectations at Hanford - 10171

Kristine Kuhl-Klinger, Jou Hwang, Robin Loeffler, Eric Wyse, Advanced Technologies and Laboratories International, Inc. (USA)

Topic B: General D&D Topics

Co-Chairs: *Mark Lesinski, Magnox South Ltd (United Kingdom); David Monts, Mississippi State University (USA)*

Sponsor: *Rick Demmer*

Paper Reviewer: *David Monts*

B1. Minimization of Hydroboric Acid Containing Decontamination Solutions - 10198

Risto Koivula, Risto Harjula, University of Helsinki (Finland)

B2. D&D Toolbox Project - Florida International University Technology Demonstration of a Whirling Nozzle for Fixative Application in Hot Cell Interiors - 10430

Peggy Shoffner, Leonel Lagos, Mario Vargas, Florida International University (USA)

Wednesday AM

Topic C: Planning & Information Management in D&D

Co-Chairs: Robert Zelmer, Atomic Energy of Canada Limited (Canada); Julia Tripp, Idaho National Laboratory (USA)

Sponsor & Paper Reviewer: Julia Tripp

C1. US DOE Facility Deactivation & Decommissioning (D&D) Program Map - 10233

Charles Urland, Michelle Gresalfi, Project Enhancement Corporation; Andrew Szilagyi, Yvette Collazo, US DOE (USA)

C2. Environmental Cost Analysis System Data Formulation - 10288

Peter Sanford, Consultant; M.A. Moe, US DOE; T.J. Brennan, US DOE; and W.G. Hombach, Team Analysis, Inc. (USA)

C3. Cost Estimating System Development for Decommissioning Nuclear Power Plants - Lessons Learned from Korean Cost Estimate Project - 10196

Sun Kee Lee, Jae Yeol An, Yong Kyu Lim, Hyundai Engineering Company (Korea)

Topic D: Characterization in the D&D Process

Co-Chairs: Peter Brennecke, Federal Office for Radiation Protection (Germany); Jas Devgun, Sargent & Lundy, LLC (USA)

Sponsor: Albert Freitag

Paper Reviewer: Julia Tripp

D1. Innovation at the UK's National Nuclear Laboratory: Development of the HiRAD Technology - 10377

Chris Holmes, **Steven Stanley**, National Nuclear Laboratory; Peter Jackson, Tom Partington, Tracerco Ltd; Clare Booth, Sellafield Ltd (United Kingdom)

D2. The Multimodal Approach for Remote Search and Visualization of Highly Active Sources of Radiations - 10407

Viktor Volkov, Vyacheslav Stepanov, Oleg Ivanov, Sergey Smirnov, Anatoly Volkovich, Alexey Danilovich, Russian Research Center Kurchatov Institute (Russia)

D3. Development of Site-Specific Shielding Factors for Use in Radiological Risk Assessments - 10112

Cynthia Barr, **Duane Schmidt**, Sami Sherbini, US NRC (USA)

Topic E: Status & Progress in D&D Activities

Co-Chairs: Rick Demmer, Idaho National Laboratory; Russell Mellor, URS Washington Division (USA)

Sponsor: Rick Demmer

Paper Reviewer: J. Rick Dearholt

E1. The D4 Process and the 100-N Area D4 Project at the Hanford Site, Washington, USA - 10369

Robert Cathel, **Terry King**, Washington Closure Hanford (USA)

E2. Progress Achieved in the Decommissioning of the Process Building of the Karlsruhe Reprocessing Plant - 10121

Werner Dander, Werner Lutz, Hubert Praxl, WAK GmbH (Germany)

E3. Remotely-Controlled Mobile Manipulator for Use in Radioactive Environments - 10262

Gary Doebler, PAR Systems, Inc. (USA)*
Please note that this poster presentation will be presented in Session 81, as A22 due to a presenter time conflict.

Topic F: International Package Design & Testing

Co-Chairs: Paul Jones, DeNuke Services, Inc. (USA); Olaf Oldiges, GNS mbH (Germany)

Sponsor: Paul Jones

Paper Reviewer: Larry Harmon

F1. Disposal Container Safety Assessment - Drop Tests with a 'Yoyushindo-Disposal' Waste Container onto a Concrete Target - 10038

Thomas Quercetti, Bernhard Droste, Andre Musolff, Karsten Müller, BAM Federal Institute for Materials Research and Testing (Germany); Seiji Komatsuki, Motonori Nakagami, Chubu Electric Power Company; Kyosuke Fujisawa, Kobe Steel, Ltd. (Japan)

F2. Disposal Container Safety Assessment - The Comprehensive Performance Evaluation of a 'Yoyusindo-Disposal' Waste Container by Drop Test - 10087

Kyosuke Fujisawa, Takashi Nishio, Kojiro Fuji, Kobe Steel, Ltd. (Japan); Motonori Nakagami, Seiji Komatsuki, Chubu Electric Power Company (Japan); Andre Musolff, Karsten Müller, Thomas Quercetti, BAM Federal Institute for Materials Research and Testing (Germany)

F3. Mechanical/Thermal Package Design Safety Assessment and Manufacturing Quality Assurance of Spent Fuel Transport Cask NCS 45 - 10187

Christian Kuschke, Tino Neumeyer, Frank Wille, Bernhard Droste, BAM Federal Institute for Materials Research and Testing (Germany)

F4. 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 Materials - 10333

Gheorghe Vieru, Institute for Nuclear Research (Romania)

Topic G: Crosscutting, Policies, Programs & Technologies in Packaging & Transportation

Co-Chairs: **Jeb Berg**, *Cavanagh Services Group, Inc.*; **Christopher Brandjes**, *Argonne National Laboratory (USA)*

Sponsor: **Olaf Oldiges**

Paper Reviewer: **Paul Jones**

G1. Intermodal Movable Hard Lid Safety - Linde Formerly Utilized Sites Remedial Action Program (FUSRAP) Remediation Project - 10421

Joseph McGowan, *Shaw Environmental & Infrastructure*; **James Boyle**, *US ACE (USA)*

G2. Russian Federation Radioactive Waste Transportation Management Safe Practice and Prospective Operations Plans - 10195

Alexander Gelbutovsky, *Peter Cheremisin, Ilja Grinev, Alexander Troshev, ECOMET-S (Russia)*

Session 69

1:30 PM - 5:00 PM

Room 102 B

Panel/Oral: Developments in the American Recovery and Reinvestment Act (ARRA)

Co-Chairs: **Jim Janis**, *The Janis Group, Inc.*; **Cathy Hickey**, *URS Corporation (USA)*

Sponsor: **Cathy Hickey**

Organizers: **Cathy Hickey, Susan Stiger**

Panel Reporter: **Susan Stiger**

This combined Panel and Paper Session will focus on the ARRA lessons learned after one year of implementation. Perspectives from both government and industry officials will be given on funds distribution, contracting mechanisms, accomplishments and future activities. This session will also address the potential forthcoming significant financial incentives for nuclear (including WM) in the current Climate Energy Bills (e.g. Subtitle C, Sections 132, 133 of the "Clean Energy, Jobs, & American Power Act"). This session compliments Panels 53 and 54 which focus on US DOE and Contractor's Procurement and Contracting activities. All WM2010 Exhibitors are invited to attend.

Panelists: **Jim Janis**, *The Janis Group*; **Gerald Boyd**, *Oak Ridge Office Manager, US DOE*; **Nithin Akuthota**, *Executive Director, Energy, Technology, and Environmental Business Association (ETEBA)*; and **J. Frank Armijo**, *Vice President, Energy & Environmental Services, Lockheed Martin Corporation*; and **John Mocknick**, *US DOE EM*.

There will also be four papers presented in the second half of the session, as shown.

3:20 Development of the 2012 Accelerated Cleanup Plan - 10146

Jay Rhoderick, *Michelle Primack, US DOE*; **David Meredith**, *Project Enhancement Corporation (USA)*

3:45 American Recovery and Reinvestment Act Challenges and Successes for Environmental Management Intergovernmental and Stakeholder Relations - 10103

Kristen Ellis, *US DOE (USA)*

4:10 The Positive Impacts of American Reinvestment and Recovery Act (ARRA) Funding to the Waste Management Program on Hanford's Plateau Remediation Project - 10129

L. Ty Blackford, *CH2M HILL Plateau Remediation Company*; **Don Moak**, *Perma-Fix Environmental Services, Inc.*; **Lori West**, *Materials and Energy Corporation, CHPRC Solid Waste Processing Project (USA)*

4:35 Impacts of the American Recovery and Reinvestment Act on the Ongoing Cleanup of the Idaho National Laboratory - 10457

Erin Bogнар, **Allen Schubert**, *CH2M-WG Idaho, LLC (USA)*

Session 70

1:30 PM - 5:00 PM

Room 105 AB

Panel: Partnerships with the IAEA Network of Centres of Excellence in ER – ENVIRONET

Co-Chairs: **Horst Monken Fernandes**, *Melanie Wong, International Atomic Energy Agency (Austria)*

Sponsor: **Donald Goebel**

Organizer: **Horst Monken Fernandes**

Panel Reporter: **Horst Monken Fernandes**

This session will focus on the partnership opportunities with IAEA ENVIRONET. This session is the third in a series of sessions organized by IAEA on the international Environet Network. Discussion will include ER clean-up opportunities, member roles, and participants.

- 1. The Brazilian Experience on Environmental Remediation of Uranium Mining Sites – Alessandra Barreto**, *Indústrias Nucleares do Brasil (Brazil)*
- 2. Decommissioning and Remediation of the Chernobyl Nuclear Power Plant Cooling Pond – Oleg Voitsekhovych**, *Ukrainian Hydrometeorological Institute (Ukraine)*
- 3. Environmental Remediation Challenges in the Russian Federation – Sergey Mikheykin**, *FSUE "RosRAO" (Russia)*

Wednesday PM

Topic G: Crosscutting, Policies, Programs & Technologies in Packaging & Transportation

Co-Chairs: **Jeb Berg**, *Cavanagh Services Group, Inc.*; **Christopher Brandjes**, *Argonne National Laboratory (USA)*

Sponsor: **Olaf Oldiges**

Paper Reviewer: **Paul Jones**

G1. Intermodal Movable Hard Lid Safety - Linde Formerly Utilized Sites Remedial Action Program (FUSRAP) Remediation Project - 10421

Joseph McGowan, *Shaw Environmental & Infrastructure*; **James Boyle**, *US ACE (USA)*

G2. Russian Federation Radioactive Waste Transportation Management Safe Practice and Prospective Operations Plans - 10195

Alexander Gelbutovsky, *Peter Cheremisin, Ilja Grinev, Alexander Troshev, ECOMET-S (Russia)*

Session 69

1:30 PM - 5:00 PM

Room 102 B

Panel/Oral: Developments in the American Recovery and Reinvestment Act (ARRA)

Co-Chairs: **Jim Janis**, *The Janis Group, Inc.*; **Cathy Hickey**, *URS Corporation (USA)*

Sponsor: **Cathy Hickey**

Organizers: **Cathy Hickey, Susan Stiger**

Panel Reporter: **Susan Stiger**

This combined Panel and Paper Session will focus on the ARRA lessons learned after one year of implementation. Perspectives from both government and industry officials will be given on funds distribution, contracting mechanisms, accomplishments and future activities. This session will also address the potential forthcoming significant financial incentives for nuclear (including WM) in the current Climate Energy Bills (e.g. Subtitle C, Sections 132, 133 of the "Clean Energy, Jobs, & American Power Act"). This session compliments Panels 53 and 54 which focus on US DOE and Contractor's Procurement and Contracting activities. All WM2010 Exhibitors are invited to attend.

Panelists: **Jim Janis**, *The Janis Group*; **Gerald Boyd**, *Oak Ridge Office Manager, US DOE*; **Nithin Akuthota**, *Executive Director, Energy, Technology, and Environmental Business Association (ETEBA)*; and **J. Frank Armijo**, *Vice President, Energy & Environmental Services, Lockheed Martin Corporation*; and **John Mocknick**, *US DOE EM*.

There will also be four papers presented in the second half of the session, as shown.

3:20 Development of the 2012 Accelerated Cleanup Plan - 10146

Jay Rhoderick, *Michelle Primack, US DOE*; **David Meredith**, *Project Enhancement Corporation (USA)*

3:45 American Recovery and Reinvestment Act Challenges and Successes for Environmental Management Intergovernmental and Stakeholder Relations - 10103

Kristen Ellis, *US DOE (USA)*

4:10 The Positive Impacts of American Reinvestment and Recovery Act (ARRA) Funding to the Waste Management Program on Hanford's Plateau Remediation Project - 10129

L. Ty Blackford, *CH2M HILL Plateau Remediation Company*; **Don Moak**, *Perma-Fix Environmental Services, Inc.*; **Lori West**, *Materials and Energy Corporation, CHPRC Solid Waste Processing Project (USA)*

4:35 Impacts of the American Recovery and Reinvestment Act on the Ongoing Cleanup of the Idaho National Laboratory - 10457

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Session 70

1:30 PM - 5:00 PM

Room 105 AB

Panel: Partnerships with the IAEA Network of Centres of Excellence in ER – ENVIRONET

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Sponsor: **Donald Goebel**

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- 2. Decommissioning and Remediation of the Chernobyl Nuclear Power Plant Cooling Pond – Oleg Voitsekhovych**, *Ukrainian Hydrometeorological Institute (Ukraine)*
- 3. Environmental Remediation Challenges in the Russian Federation – Sergey Mikheykin**, *FSUE "RosRAO" (Russia)*

4. **Remediation Projects in South Africa – Elna Fourie**, *South African Atomic Energy Commission (NECSA) (South Africa)*
5. **Remediation Strategy of a Phosphogypsum Stack in an Urban Area in Sfax, Tunisia** - *Latifa Ben Omrane, Azza Hammou, CNRP, Hôpital d'Enfants; Faouzi Ben Amor, Geo Environment; Riadh Hentati, Ramzi Halouani, SEACNVS (Tunisia)*
6. **Remediation of NORM contaminated Sites in Syria** - *Lina Al Atar, Atomic Energy Commission of Syria (Syria)*
7. **The IAEA Ongoing Activities in Supporting Environmental Remediation Projects in Central Asian – Russell Edge**, *IAEA (Austria); Oleg Voitsekhovych, Ukrainian Hydrometeorological Institute (Ukraine)*
8. **Radioactive Waste Management Policy & Strategy in Iraq** -10299- *Fuoad Al-Musawi, Emad S. Shamsaldin, Talib K. Ibrahim, Adnan S. Jarjies, Ministry of Science & Technology (Iraq)*

Session 71

1:30 PM - 5:00 PM Room 103 AB

D&D of Nuclear Power Plants

Co-Chairs: *Ted Gado, Burns & Roe (USA); Anthony Banford, National Nuclear Laboratory (United Kingdom)*

Sponsor: *Jas Devgun*

Organizers: *Albert Freitag, Anthony Banford*
Paper Reviewer: *Anthony Banford*

1:35 Decommissioning and Dismantling of Prototype Reactors and Fuel Cycle Facilities at the German Karlsruhe Site – Progress and New Challenges - 10088

Joachim Fleisch, Juergen Minges, Beata Eisenmann, Manfred Urban, Anja Graf-Frank, Erwin Prechtel, Joachim Dux & Wolfgang Pflieger WAK GmbH (Germany)

2:00 Cutting Reactor Pressure Vessels and Their Internals – Trends on Selected Technologies - 10247

Robert Henderson, Ludger Eickelpasch, NUKEM Technologies GmbH (Germany)

2:25 EDF Radioactive Graphite Inventories Based on Hundreds of Measurements are Casting Doubt on "A Priori" Accepted Ideas - 10414

Bernard Poncet, EDF-CIDEN (France)

2:50 Modular Construction for Eventual Deconstruction and Decommissioning - 10300

Jas Devgun, Sargent & Lundy, LLC (USA)

3:20 Decommissioning Sellafield's First Fuel Storage Pond - 10070
Derek Carlisle, Sellafield Ltd (United Kingdom)

3:45 The Application of Simulation Modelling in Nuclear Decommissioning - 10405
Sean McCann, Richard Thompson, Sellafield Ltd (United Kingdom)

4:10 Decommissioning and Cutting Methods in the Nuclear Field - 10059
Erik Bensoussan, Protem SAS (France)

Session 72

1:30 PM - 5:00 PM Room 104 AB

Innovative Field Monitoring for Environmental Remediation

Co-Chairs: *Russell Boyd, The Shaw Group; David Wallace, CDM (USA)*

Sponsor: *David Eaton*

Organizers: *Donna Guillen, Jim Yeh*

Paper Reviewer: *Russell Boyd*

1:35 Some Recent Technology Developments from the UK's National Nuclear Laboratory to Enable Hazard Characterisation for Nuclear Decommissioning Applications - 10317

Steven Stanley, Chris Holmes, National Nuclear Laboratory (United Kingdom); Eduardo Farfan, Trevor Foley, Savannah River National Laboratory; Mark Oldham, Duke University Medical Center (USA); Trevor York, Peter Green, University of Manchester; Peter Jackson, Tracerco Ltd (United Kingdom)

2:00 Use of the Advanced Trident Probe to Investigate Upwelling Groundwater in the Columbia River Hanford Reach - 10558
Jeff Lerch, *Washington Closure Hanford; Brett Tiller, Environmental Assessment Services; Ron Paulsen, Coastal Monitoring Associates, LLC (USA)*

2:25 Enhanced Effective Detection of Buried Radioactive Waste - 10177
Qian Du, Wei Wei, Nicolas Younan, Charles Waggoner, Donna Rogers, Zhongyuan Huang, Mississippi State University (USA)

2:50 Innovative, Non-Intrusive Passive Soil Gas Collection Device Maps Large Carbon Tetrachloride Plume at the DOE Hanford Site, Washington - 10501

Harry O'Neill, Joe Odencrantz, Beacon Environmental Services, Inc.; Wes Bratton, Ken Moser, Vista Engineering Technologies (USA)

3:20 Passive Electrical Measurements for Long-Term Performance Monitoring - 10034
Carlyle Miller, *Mindy McCarthy, MSE Technology Applications, Inc. (USA)*

Wednesday PM

3:45 In-Situ Assay of Transuranic Radionuclides in the Vadose Zone using High-Resolution Spectral Gamma Logging – A Hanford Case Study - 10438

Paul Henwood, Rick McCain, S.M. Stoller Corporation; Virginia Rohay, CH2M HILL Plateau Remediation Company (USA)

4:10 Use of Fly-Over Surveys in Making Environmental Decisions - 10339

Harold Anagnostopoulos, Stoller-Navarro (USA)

4:35 Real-Time and Continuous Remote Radiological Monitoring System in the Strait of Gibraltar: (REMUS project) - 10292

Rachid El Mrabet, Nabil Dehbi, Tahar El Khoukhi, National Center for Energy, Sciences and Nuclear Techniques (Morocco); Gregory Delecaut, JeanPierre Lacroix, Institut National des Radioéléments (Belgium)

Session 73

1:30 PM - 5:00 PM

Room 106 C

Vitrification Experience and Glass Characterization for HLW

Co-Chairs: Ned Bibler, Savannah River National Laboratory (USA); Michael Ojovan, University of Sheffield (United Kingdom)

Sponsor & Paper Reviewer: Ned Bibler

Organizers: Ned Bibler, Terri Fellingner, Christian Ladirat

1:35 Vitrification Assistance Program: International Cooperation on Vitrification Technology (PART II) - 10157

Anthony Prod'homme, AREVA Federal Services, LLC (USA); David Marsden, Nick Skillen, Bryan McGowan, Stephen Scott, Brian Garth, Sellafield Ltd (United Kingdom); Eric Guillois, Stephane Sartelet, Henri Noel Guerif, AREVA NC; Jean Francois Hollebecque, CEA; Thierry Flament, Fabrice Pereira Mendes, Julien Lauzel, SGN (France)

2:00 New Developments in Advanced Stabilization Technologies including the Advanced Microwave System and Modular Vitrification System - 10279

Mark Denton, Kurion, Inc. (USA)

2:25 Radioactive Start-up of the German VEK Vitrification Plant - 10089

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

2:50 Qualification of In-Can Melting Process Applied to Vitrification of High Activity Waste Solutions (HAWS) at the CEA's Valduc Center: Description of Process and Equipment, Methodology and Initial Results - 10022

Philippe Gruber, Stéphane Lemonnier, Isabelle Hugon, Yann Papin, Alain Ledoux, J. Lacombe, Jean-Luc Dussossoy, CEA Marcoule; Laurent Pescayre, Béatrice Batifol, CEA Valduc (France)

3:20 Vitrification 2010 - A Challenging French Vitrification Project to Retrofit a Cold Crucible Inductive Melter at the La Hague Plant - 10382

Sandrine Naline, Vincent Robineau, Frédéric Gouyoud, AREVA NC; Christophe Girold, CEA Marcoule; Benoit Carpentier, SGN Equeurdreville (France)

3:45 Vitrification of a Representative Simulant of DWPF SB4-Type Waste in CCIM – Industrial Scale Demonstration on the CEA Marcoule Platform - 10063

Milene Delaunay, Alain Ledoux, Jean-Luc Dussossoy, Patrice Boussier, J. Lacombe, Christophe Girold, CEA Marcoule; Catherine Veyer, Consultant (France); Eric Tchemitcheff, AREVA Federal Services, LLC (USA)

4:10 High Aluminum HLW Glasses for Hanford's WTP - 10241

Innocent Joseph, **Bradley Bowan**, EnergySolutions; Hao Gan, Wing K. Kot, Keith Matlack, Ian Pegg, Catholic University of America; Albert Kruger, US DOE - ORP (USA)

4:35 Tests of Simultaneous Melt Rate and Waste Loading Enhancements for DWPF HLW Streams - 10254

Bradley Bowan, Innocent Joseph, EnergySolutions; Keith Matlack, Hao Gan, Wing K. Kot, Ian Pegg, Catholic University of America (USA)

Session 74

1:30 PM - 5:00 PM

Room 106 B

Operational Challenges in Mixing Technologies Related to Waste Retrieval

Co-Chairs: Bernard Vigreux, French Nuclear Energy Society (France); Harry Harmon, Senior Consultant (USA)

Sponsor: Bernard Vigreux

Organizers: Bernard Vigreux, Harry Harmon

Paper Reviewer: Remi Bera

1:35 Savannah River Site Saltcake Retrieval Simulation - 10109

Larry Pearson, Rebecca Toghiani, Jeff Lindner, Mississippi State University (USA)

2:00 The Retrieval Knowledge Center Evaluation of Low Tank Level Mixing Technologies for DOE High Level Waste Tank Retrieval - 10516

Andrew Fellingner, Rick Minichan, Savannah River National Laboratory (USA)

2:25 Operational Challenges in Mixing and Transfer of High Yield Stress Sludge Waste - 10263

Thomas Caldwell, Pankaj Bhatt, Savannah River Remediation, LLC (USA)

2:50 High-Level Waste Feed Certification in Hanford Double-Shell Tanks - 10083

Mike Thien, Washington River Protection Solutions; Duane Adamson, Savannah River National Laboratory; Beric Wells, Pacific Northwest National Laboratory (USA)

3:20 Storage, Mobilization and Retrieval of High Yield Strength Sludges from United Kingdom Legacy Spent Fuel Storage Facilities - 10225

Martin Williams, NuVision Engineering, Inc. (USA); Paul Stewart, Sellafield Ltd (United Kingdom)

3:45 Impact of Rheological Modifiers on Various Slurries Supporting US DOE Waste Processing - 10099

Jaehun Chun, Paul Bredt, Pacific Northwest National Laboratory; Erich Hansen, Savannah River National Laboratory; Prasad Bhosale, John Berg, University of Washington (USA)

4:10 Modeling of Leaching Filter Pressure Drop and Fouling Behavior - 10477

David Rector, Mark Stewart, Pacific Northwest National Laboratory (USA)

4:35 Test Facilities for the Demonstration of Pulse Jet Mixer Performance in the Hanford Waste Treatment Plant - 10275

Paul Townson, EnergySolutions; Peter Omel, Bechtel National, Inc. (USA)

Session 75

1:30 PM - 3:15 PM

Room 106 A

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

Co-Chairs: Robert Hiergesell, Savannah River National Laboratory; **Martin Letourneau**, US DOE (USA)

Sponsor & Paper Reviewer: Robert Hiergesell
Organizers: Robert Hiergesell, Martin Letourneau

1:35 A Risk-Based Evaluation of Lined Verses Unlined Disposal Cells for Future Low Level Radioactive Waste Disposal Sites - 10437

Joseph Rustick, James Clarke, Vanderbilt University; **Martin Letourneau**, US DOE (USA)

2:00 The Impact of Mineral Deposition by Carbonation and Dissolution on Leaching of Constituents from a Cement Mortar - 10312

Joshua Arnold, Andrew Garrabrants, David Kosson, Vanderbilt University (USA); JCL Meeussen, H Van Der Sloot, Energy Research Centre of the Netherlands (The Netherlands)

2:25 Water Balance Model for a Generic Near-Surface Disposal Facility - 10029

Andras Paksy, Ed Henderson, **Simon Kwong**, National Nuclear Laboratory (United Kingdom)

2:50 Large Scale Test of the Long Term Engineered Cap at El Cabril LLW Disposal Facility in Spain - 10069

Mariano Navarro, Manuel Ordoñez, Pablo Zuloaga, ENRESA (Spain)

Session 76

3:15 PM - 5:00 PM

Room 106 A

Emerging Treatment Technologies for LLW, ILW, Mixed Waste, NORM and TENORM

Co-Chairs: Paul Macbeth, US DOE (USA); **Heinz Kroeger**, TÜV NORD EnSys Hannover (Germany)

Sponsor: Paul Macbeth

Organizers: Paul Macbeth, Erich Tiepel

Paper Reviewer: Heinz Kroeger

3:20 Technology Needs for Developing the Next Generation of US DOE Landfills/Disposal Areas - 10013

Vince Adams, Dinesh Gupta, US DOE; Craig Benson, University of Washington; John Smegal, Legin Group, Inc. (USA)

3:45 Solidification Testing for a High Activity Wastestream from the Savannah River Site using Grout and Gamma Radiation Shielding Materials - 10017

Jody Bickford, Martin Foote, MSE Technology Applications, Inc; Heather Burns, Savannah River Nuclear Solutions (USA)

4:10 Thermal Treatment of UK Intermediate and Low Level Radioactive Waste: A Demonstration of the GeoMelt Process towards Treatment of Sellafield Waste - 10507

Keith Witwer, Eric Dysland, Impact Services, Inc., GeoMelt Division (USA); Mike James, Chris Mounsey, Sellafield Ltd. (United Kingdom)

4:35 US DOE's Initiatives for Proliferation Prevention in Russia: Results of Radioactive Liquid Waste Treatment Project, Year 1 - 10031

Dennis Kelley, Pacific Nuclear Solutions (USA); Vladislav Kamachev, Yury Pokhitonov, Khlopin Radium Institute (Russia)

Session 77

1:30 PM - 5:00 PM Room 105 C

New Generation of Uranium Recovery Facilities

Co-Chairs: Steven Brown, SHB Inc.; Erich Tiepel, Golder Associates, Inc (USA)

Sponsor & Paper Reviewer: Steven Brown

Organizers: Erich Tiepel

1:35 The Coles Hill Uranium Project and Virginia Uranium Inc. – History and Critical Path Forward for Development - 10520

Patrick Wales, Virginia Uranium, Inc. (USA)

2:00 Current Status of US Nuclear Regulatory Commission's Uranium Recovery Activities - 10418

Larry Camper, Daniel Gillen, US NRC (USA)

2:25 The Piñon Ridge Project - Design and Permitting of a New Uranium Mill Tailings Facility - 10512

Kimberly Morrison, Golder Associates Inc.; Steven Brown, SHB Inc.; Frank Filas, Energy Fuels Resources (USA)

2:50 Radiological Aspects of U.S. Uranium In Situ Recovery Facilities (An Update) and Some Current Health Physics Issues - 10505

Steven Brown, SHB Inc. (USA)

3:20 Parallel Universes - High-Density GPS-Based Gamma Radiation Mapping: Technology for Initial Licensing Through Final Remedial Action at Uranium and TENORM Sites - 10510

Robert Meyer, Tetra Tech Inc. (USA)

3:45 Northern Mine Decommissioning – Case Study of Remedial Works for Closure of Port Radium, Canada's Original Uranium Mine - 10397

Gerd Wiatzka, SENES Consultants Ltd.; Charles F. Gravelle, Decommissioning Consulting Services Limited (Canada)

4:10 Changes to the US Nuclear Regulatory Commission Regulation of Construction for Nuclear Materials Licensees – Assessment of Environmental Impacts and Implications for Applicants - 10245

A. Christianne Ridge, Andrea Kock, US NRC (USA)

4:35 Issues in Developing a New Uranium Mine in Canada - 10579

Grant Feasby, Doug Chambers, SENES Consultants Ltd. (Canada)

Session 78

1:30 PM - 3:15 PM Room 101 B

Treatment of Nuclear Power Plant Liquid and Wet Waste

Co-Chairs: Olaf Oldiges, GNS mbH (Germany);

C. Clint Miller, Pacific Gas & Electric (USA)

Sponsor: Mark Lewis

Organizers: Olaf Oldiges, Mark Lewis

Paper Reviewer: C. Clint Miller

1:35 Improvement of Water Purification Plant in SIA "Radon" - 10189

Alexander Savkin, Yury Karlin, Victor Flit, Alexander Ermakov, Dmitry Adamovich, SIA Radon (Russia)

2:00 Radioactive Spent Ion-Exchange Resins Conditioning by the Hot Supercompaction Process at Tihange NPP - 10043

Serge Vanderperre, Baudouin Centner, David Charpentier, Tractebel Engineering GDF SUEZ (Belgium)

2:25 Transfer and Fixation of Radionuclides by Nanosized Latexes Containing Polyacrylic Acid - 10387

Svetlana Bratskaya, Valentin Avramenko, Veniamin Zheleznov, Andrey Egorin, Institute of Chemistry FEDRAS (Russia); Tatiana Markovtseva, Chernobyl NPP (Ukraine); Risto Harjula, University of Helsinki (Finland)

2:50 A New Drying Facility For LL and IL Waste in a Special Designed Building - 10534

Olaf Oldiges, Ingmar Koischwitz, GNS mbH (Germany)

Session 79

3:15 PM - 5:00 PM Room 101 B

Management of Nuclear Power Plant Dry Waste and Spent Fuel

Co-Chairs: Wolfgang Steinwarz, Siempelkamp Nukleartechnik GmbH (Germany);

Mark Lewis, EnergySolutions (USA)

Sponsor, Organizer & Paper Reviewer: Wolfgang Steinwarz

3:20 Dry Cask Storage – Pacific Gas & Electric - Humboldt Bay Power Plant - 10217

E. Don Strassman, Larry Pulley, Tawni Hardwick, Pacific Gas & Electric (USA)

3:45 Handling of HLW Flasks in German NPP - Safety Aspects - 10062

Ernst Prucker, Karl-Heinz Lehmann, Tuv Sueddeutschland; Herbert Lang, Bavarian Ministry of Environment and Health (Germany)

4:10 Regulatory Change in LLW Disposal: Why Something Should be Done - 10540
Thomas Kalinowski, David James, DW James Consulting, LLC; Phung Tran, EPRI (USA)

4:35 Development of Spent Nuclear Fuel Management System in Korea - 10544
Dong Keun Cho, Heu-Joo Choi, Jong Won Choi, J.Y Lee and D.H. Kook Korea Atomic Energy Research Institute (Korea)

Session 80

1:30 PM - 5:00 PM Room 101 C

Packaging and Transportation - Doing It Right!

Co-Chairs: Ella McNeil, US DOE;
 Daniel Jordan, Enercon Services, Inc. (USA)
Sponsor: Larry Harmon
Organizers: Ella McNeil
Paper Reviewer: Mike Nolan

1:35 Commercial Viability of Mixed Oxide Fuel Transport in the United States - 10060
Frederick Yapuncich, Dorothy Davidson, Remi Bera, AREVA Federal Services, LLC (USA); Michael Valenzano, Transnuclear, Inc. (USA)

2:00 Incorporating Radio Frequency Identification (RFID) Technology at Bechtel Jacobs to Optimize On-Site Waste Shipping Processes - 10227
Michael West, Alfreda Cook, Dooley Buckner, D. Dean Newton, Don Scheve, Bechtel Jacobs Company, LLC; Eddie Holden, US DOE (USA)

2:25 Next Generation Waste Tracking: Linking Legacy Systems with Modern Networking Technologies - 10064
Randy Walker, Cyrus Smith, David Resseguie, Arjun Shankar, Bryan Gorman, David Hill, Robert Abercrombie, Frederick Sheldon, Oak Ridge National Laboratory (USA)

2:50 Moab Uranium Mill Tailings Remedial Action Project - Packaging and Transportation Operations and Challenges - 10238
Jim Portsmouth, EnergySolutions; Joel Berwick, US DOE; Lawrence M. Brede, EnergySolutions (USA)

3:20 Global Threat Reduction Initiative Efforts to Address Transportation Challenges Associated with the Recovery of Disused Radioactive Sealed Sources - 10283
Abigail Cuthbertson, US DOE NNSA; Julia Whitworth, Justin M. Griffin, Michael Pearson, Jim Matzke, Los Alamos National Laboratory; Richard Rawl, Paul Singley, Oak Ridge National Laboratory; Cristy Abeyta, Los Alamos National Lab / OSRP (USA)

3:45 Addressing Concerns about the Denial of International Shipment of Radioactive Sources - 10357
Grant Malkoske, ISSPA; Paul Gray, MDS Nordion (Canada); John Miller, International Isotopes, Inc. (USA)

4:10 What it Takes to Make a Federal Shipment, USA - 10538
Dotty DeFrest, EnergySolutions; Terri Kneitel, DOE - BHSO (USA)

4:35 Investigation of Drugstore Beetles and Their Effects within Radioactive Material Shipping Packages - 10458
Jeffrey England, Bradley Loftin, Savannah River National Laboratory; James Shuler, US DOE (USA)

Poster Session 81

1:30 PM - 5:00 PM 1st Floor Foyer

Non-Paper Poster Session for Emerging Issues - A

Co-Chairs: Gary Benda, Cavanagh Services Group, Inc.; Linda Lehman, CH2M HILL Plateau Remediation Company (USA)
Sponsor: Gary Benda

- A1. Considerations for Method Selection for Isotopic Uranium Analysis** - 10242
Terry Romanko, TestAmerica Laboratories, Inc. (USA)
- A2. Haiti, Victim of the Import of the Waste Under Cover of False Label in 1988, Promotes the Communication to inform the Basis Organizations Specially the Most Vulnerable Groups** - 10297
Pierre Richard Jouissance, Jojostahr.inc (Haiti)
- A3. Remote Radon Monitoring; a Systems Integration Approach** - 10385
Greg McCurdy, Jeffrey Tappen, Lynn Karr, David Shafer, Desert Research Institute; Alan Hinckley, Campbell Scientific, Inc. (USA)
- A4. How Nuclear Waste Management Professionals Can Better Communicate the "Essentials of Hazardous Materials Management" to the General Public** - 10066
Richard Cartwright, MECX, LP (USA)
- A5. ANS Decommissioning, Decontamination & Reutilization Division (DD&R): Our Mission** - 10562
Lisa Mullen, ANS DD&R Division (USA)

Wednesday PM

- A6. Applied Geophysical Methods in the 200-PO-1 Groundwater Operable Unit at the Hanford Site - 10307**
G. D. Cummins, Jeffrey Riddelle, CH2M HILL Plateau Remediation Company; Michael D. Thompson, MDT Associates; Steven F. Miller, Advanced GeoSolutions, Inc. (USA)
- A7. Creating and Using an Aspen Custom Model (ACM) Based Simulator called Aspen Process Performance Simulation (APPS) for the Waste Treatment and Immobilization Plant (WTP) - 10566**
Kimberly Clossey, Navpreet Brar, Matthew Gebhardt, Patrick Lowery, Bechtel National, Inc. (WTP) (USA)
- A8. Interactive Mapping and Remote Data Collection Aids Management of US DOE Sites - 10426**
Elaine Pilz, Josh Troyer, S.M. Stoller Corporation; Richard Bush, US DOE (USA)
- A9. La Hague Continuous Improvement Program to go Beyond the Current High Level of Equipment Availability of the Vitrification Facility: Development of a New Bearing Technology - 10130**
Eric Chauvin, Edouard Minayo, AREVA NC; Fabrice Pereira Mendes, Arnaud Mercier, SGN (France)
- A10. Aluminum Solubility - 10264**
Laura Smith, Jeff Lindner, Rebecca Toghiani, Yunju Xia, Valerie Phillips, Mississippi State University (USA)
- A11. Avoiding a Collision of Aging Workforce and Future Staffing Needs - 10169**
Lloyd Keith, Washington River Protection Solutions; Gerald Eaton, EnergX LLC (USA)
- A12. Hydration of the French SON68 Glass: A Kinetic Study and Corrosion Products Investigation - 10028**
Abdesselam Abdelouas, Jim Neeway, Bernd Grambow, Ecole De Mines De Nantes (France); Satoshi Utsunomiya, Masashi Kogawa, Kyushu University (Japan)
- A13. Accomplishments of the Integrated Management Program for Radioactive Sealed Sources in Egypt - 10469**
John Cochran, Jeffrey Danneels, Sandia National Laboratories (USA); Yasser Mohamed, Egyptian Atomic Energy Authority (Egypt)
- A14. D&D of Nuclear Research Reactor in Down Town of Moscow City (RF) - 10584**
Viktor Volkov, Sergey Semenov, RSC "Kurchatov Institute"; Alexander Chesnokov, Russian Research Center; Arthur Arustamov, Konstantin Semenov, Denis Fedorov, SUE SIA Radon (Russia)
- A15. Advancements in Three-Dimensional Resistivity Imaging of Subsurface Contamination Plumes Within Single-Shell Tank Waste Management Areas at the Hanford Site - 10147**
Marc Levitt, Dale Rucker, hydroGEOPHYSICS, Inc. (USA); David Myers, Washington River Protection Solutions; Colin Henderson, Columbia Environmental and Engineering Services (USA)
- A16. Modernization of the LRW and Salt Residue Treatment System at Kola NPP (RF) - 10580**
Denis Fedorov, Alexander Savkin, Arthur Arustamov, Sergey Dmitriev, SIA Radon (Russia)
- A17. Heap Leaching: A New Approach to Uranium Mining Waste Utilization - 10577**
Erik Hunter, Colorado School of Mines (USA)
- A18. Decommissioning of the UF6 Sphere of the CEA Uranium enrichment plant in Pierrelatte (France) - 10571**
Didier Métral, ONECTRA; Philippe Gros Gean, ONET Technologies (France)
- A19. Success Factors for Siting Programmes for Geological Disposal - 10570**
Bill Miller, AMEC Nuclear UK (United Kingdom)
- A20. Developing Complex Regulatory Documents Using Internet-Based Technology - 10226**
Russell Patterson, US DOE; Art Chavez, URS Corporation (USA)
- A21. The Development of the Model 9979 Type AF Packaging, a Low-Cost Packaging for Radioactive Material Waste - 10603**
Paul Blanton, Savannah River National Laboratory, Savannah River Nuclear Solutions (USA)
- A22. Remotely-Controlled Mobile Manipulator for Use in Radioactive Environments - 10262**
*Gary Doeblor, PAR Systems, Inc. (USA)**
- A23. An Radiofrequency Identification (RFID) Based System for Tracking and Monitoring Nuclear Materials - 10378**
Yung Liu, Hanchung Tsai, Kun Chen, Ron Pope, ANL; James Shuler, US DOE (USA)

March 11, Thursday AM

Session 82**8:30 AM - 10:30 AM****Room 102 B****Panel: New Power Plant Designs - the Nuclear Renaissance**

Co-Chairs: **John Bradburne**, *Janis Bradburne Executive Recruiting*; **James Gallagher**, *Gallagher Consulting (USA)*

Sponsor & Panel Reporter: **John Bradburne**
Organizers: **John Bradburne, James Gallagher**

This panel will focus on the Nuclear Renaissance and the activities being performed to meet the industry needs. Key panelists will include US NRC and industry executives discussing the actions and events in managing the renaissance. Discussion will include 1) an introduction and overview 2) the history and intent of the NRC Part 52 rule making/codification and related international programs 3) how it is really working with the first US combined Construction Permit/Operating License (CP/OL) applications filed and 4) a discussion on the present and future of plant orders. WM2010 Exhibitors are encouraged to attend this panel.

Panelists: **Stephen Burns**, *General Counsel, US NRC*; **Bob Evans**, *Vice President, Enercon Utility Services*; **Edward Helminski**, *President, Exchange Monitor Publications, Inc.*; and **James L. Little**, *Senior Vice President, Nuclear Energy Program, URS Power Group*.

Session 83**8:30 AM - 12:00 PM****Room 103 AB****Panel: US Federal Government Contract "Capture" Workshop**

Chair: **Vik Mani**, *Mani Strategic Solutions, LLC (USA)*
Sponsor, Organizer & Panel Reporter: **Vik Mani**

This workshop focuses 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. This workshop will provide professionals with a better understanding of the tactical and strategic management processes involved in the overall effort of "CAPTURE".

Panelists: **Gerald Boyd**, *DOE ORO*; **Ralph Holland**, *DOE EMCBC*; **Mike Howard**, *DOE EM (HQ)*; **Jim Janis**, *The Janis Group*; **Dennis Ferrigno**, *CAF &*

Associates; John Longenecker, Longenecker & Associates; and Robert D. Allan, Allan Consulting.

Session 84**8:30 AM - 12:00 PM****Room 101 B****Innovative Liquid and Gas Crosscutting Filtration Systems in the Nuclear Industry**

Co-Chairs: **Charles Waggoner**, *Mississippi State University (USA)*; **Chris Chadwick**, *Microfiltrex (United Kingdom)*

Sponsor: **David Eaton**
Organizers: **Charles Waggoner, Chris Chadwick**
Paper Reviewer: **Charles Waggoner**

- 1. Extensive Characterization of Novel Classes of Inorganic Ion Specific Media Designed for Highly Selective Removal of Salient Liquid Waste Radionuclides: Cs, Sr, Ni and Tc - 10251**
Gaetan Bonhomme, *Mark Denton, Kurion, Inc.*; **William Bostick**, *Materials and Chemistry Laboratory, Inc. (USA)*
- 2. Evaluating the Performance of ASME AG-1 Section FK Radial Flow Filters - 10015**
Michael Parsons, *Charles Waggoner, Rangaswami Arunkumar, Mississippi State University (USA)*
- 3. Development of a High Performance HEPA Filter to Withstand High Temperature and High Pressure Transients - 10569**
Chris Chadwick, *Microfiltrex (United Kingdom)*

Following the three initial presentations, there will be a panel discussion narrated by the Co-Chairs. Topics that will be presented and discussed will include the following:

- 1. NNSA Updating of the DOE 1066 Fire Protection Standard**
- 2. Novel Condensate Tolerant, High Strength HEPA Media.**
- 3. UK Experiences In The Use Of Radial Flow HEPA Filters In Nuclear Containment.**

Thursday AM

Session 85

8:30 AM - 12:00 PM Room 101 C

Communicating Information and Issues: Tribal Involvement, Public Participation and Modern Technology

Co-Chairs: Jan Lewis, *The Shaw Environmental, Inc.*; Margaret MacDonell, *Argonne National Laboratory (USA)*

Sponsor & Paper Reviewer: Margaret MacDonell
Organizers: Michelle Rhodes, John Lowe, R. Douglas Hildebrand

8:35 Tweeting Our Way to Transparency: The Challenge of Social Media in Government - 10274
Tyler Whitney, Carrie Meyer, Erik Olds, US DOE - ORP (USA)

9:00 Honoring the US DOE's Commitment to the American Indian Tribal Government Policy through Tribal Input to the Disposal of Greater Than-Class-C Low-Level Radioactive Waste Environmental Impact Statement - 10205
Arnold Edelman, Albert Brandt Petrusek, US DOE - EM; Richard Arnold, Nevada Test Site (USA)

9:25 Tools for Environmental Assessment of Contaminated Sites: Understanding Tribal and Stakeholder Concerns using US DOE Sites as Case Studies - 10106
Joanna Burger, Rutgers University; Charles Powers, Vanderbilt University; Michael Gochfeld, CRESPI (USA)

9:50 Independent Oversight of Radioactive Waste Management - Influence on the Past - Benefit for the Future - 10143
Christopher Timm, Jerry Fox, PECOS Management Services, Inc (USA)

10:20 Nuclear Communications - Transparent, Open and Often - 10447
Eliot Brenner, Rebecca Schmidt, US NRC (USA)

10:45 The Benefits and Opportunities of Implementing US DOE's Public Participation Policy by Working with Intergovernmental and Stakeholder Groups - 10044
David Borak, US DOE - EM (USA)

11:10 An Update on Stakeholder Participation in the Environmental Cleanup of Radioactive Wastes in the United Kingdom, Japan and United States - 10390
Bill Lawless, Fjorentina Angjellari-Dajci, Paine College; Christian Poppeliers, Augusta State University, Dept. of Physics (USA); Mito Akiyoshi, Senshu University (Japan); John Whitton, Nexia Solutions (United Kingdom)

11:35 Preservation Versus Demolition – The Fate of the Historic K-25 Gaseous Diffusion Plant - 10492
Susan Gawarecki, ORR Local Oversight Committee; William Wilcox, Oak Ridge Heritage and Preservation Association (USA)

Session 86

8:30 AM - 10:15 AM Room 106 C

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: Roger Nelson
Organizers: Betty Humphrey, Sheila Lott
Paper Reviewer: Betty Humphrey

8:35 A Snapshot in Time - The TRUplanner Database - 10400
Wesley Estill, Gregory Van Soest, Beverly Crawford, Los Alamos National Laboratory (USA)

9:00 Project Plans for Transuranic Waste at Small Quantity Sites in the Department of Energy Complex - 10522 *Jerri McTaggart, Sheila Lott, Los Alamos National Laboratory; Casey Gadbury, US DOE (USA)*

9:25 Nevada Test Site (NTS) Transuranic (TRU) Waste Project Lessons Learned - 10324
Patrick Arnold, CH2M HILL - National Security Technologies (NSTec); Frank Disanza, US DOE NNSA NSO; John Ciucci, Duane Snyder, Rick Wagner NSTec (USA)

9:50 Sandia National Laboratories RH Repackaging Efforts - 10490
Michael Spoerner, Sandia National Laboratories; Betty Humphrey, Weston Solutions, Inc. (USA)

Session 87

8:30 AM - 10:30 PM Room 106 B

Waste Characterization - Non-Instrumental Solutions

Co-Chairs: Frazier Bronson, *Canberra Industries Inc - AREVA Group (USA)*; Heinz Kroeger, *TÜV NORD EnSys Hannover (Germany)*
Sponsor & Paper Reviewer: Heinz Kroeger
Organizers: Lance Mezga, Frazier Bronson

8:35 Solid Waste Management: Bringing Best Practices to Los Alamos National Laboratory - 10422
Alison M. Dorries, Scotty Miller, Debora Hall, Los Alamos National Laboratory (USA)

9:00 Optimized Planning of the Disposal of Radioactive Waste Packages Exceeding the German Waste Acceptance Criteria Limits for Fissile Material Content and for Heat Generation - 10450

Peter Brennecke, Stefan Steyer, Federal Office for Radiation Protection; Sonja Margraf, Walter Hackel, RD Hanau GmbH; Gabriele Bandt, Heinz Kroeger, TÜV NORD EnSys Hannover (Germany)

9:25 Description of Non-Radioactive Substances in Radioactive Wastes - 10406

Elke Kaffka, Rudi Gaschler, Energiewerke Nord GmbH; Peter Brennecke, Federal Office for Radiation Protection; Detlef Gründler, Institute for Safety Technology; Claudia Haider, ISTECH GmbH (Germany)

9:50 Development of Advanced Waste Management Software to Enhance Operating Efficiency and Reduce Life-Cycle Cost at the Oak Ridge National Laboratory, Oak Ridge, Tennessee, USA - 10058

Timothy Forrester, Gerald Cunningham, John Powell, Nevada Williford, Oak Ridge National Laboratory; Ron Branch, Strata-G (USA)

10:20 Off-Site Source Recovery Project Case Study: Disposal of High Activity Cobalt 60 Sources at the Nevada Test Site 2008 - 10509

William Stewart, Frank Cocina, Los Alamos National Laboratory - OSRP (USA); Mark Wald-Hopkins, Los Alamos National Laboratory; John Hageman, Southwest Research Institute (USA)

Session 88

8:30 AM - 12:00 PM

Room 106 A

Panel: Waste Management Energy Facilities Contractor Operating Group (EFCOG)

Co-Chairs: William Morrison, EnergySolutions; W.T. (Sonny) Goldston, Savannah River Nuclear Solutions (USA)

Sponsor: W.T. (Sonny) Goldston

Organizers: W.T. (Sonny) Goldston, William (Billy) Morrison

Panel Reporter: Nancy Rothermich

This panel will focus on the WM EFCOG and will meet to discuss a variety of issues of importance to US DOE waste management operations.

The purpose of the WM EFCOG 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 DOE or commercial facilities.

The WM Task Group will be focused 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. Presentations and panel discussion will include the following:

- 1. Welcome And Introduction - Review Of Last Years Work And Accomplishments –Billy Morrison, Chair EFCOG WM Working Group, EnergySolutions**
- 2. 2010 Focus Areas – Sonny Goldston, Vice Chairman EFCOG WM Working Group, Savannah River Nuclear Solutions**
- 3. DOE HQ Update, LLW Cooperative Board, ARRA Update - Christine Gelles, LLW Corporate Board, US DOE-HQ**
- 4. DOE Order 435.1 Radioactive Waste Management Update and Complex Wide Review - Marty Letourneau, US DOE HQ EM**

Each Site Representative Will Later Provide an ARRA and Radioactive Waste Management Lessons Learned Briefing.

Panelists: Billy Morrison, Chair EFCOG WM Working Group, EnergySolutions, Sonny Goldston, Vice Chairman EFCOG, Savannah River Nuclear Solutions; Christine Gelles, LLW Corporate Board, US DOE-HQ; and Martin Letouneau, US DOE HQ EM

Session 89

8:30 AM - 12:00 PM

Room 104 AB

Panel: The IAEA Network on Environmental Management and Remediation – ENVIRONET - Bringing Regulatory Language and Operational Challenges Together

Co-Chairs: Horst Monken Fernandes, IAEA (Austria); Michelle Rehmann, IFSOUP (USA)

Sponsor: Donald Goebel

Organizers: Donald Goebel, Horst Monken Fernandes

Panel Reporter: Stephanie Long

This panel will focus on the WM2010 series of IAEA sessions presented during the week and will be the closing panel on ENVIRONET. The panel will address the overall assessment and the establishment of a positive partnership in Environmental Remediation. Presentations and panel discussion will include the following:

Thursday AM

- 1. **Establishing a Positive Partnership Agenda in Environmental Remediation** – **Horst Monken Fernandes**, *IAEA (Austria)*

- 2. **IAEA Initiative to Support the Establishment of Regulatory Framework in Member States** – **Russell Edge**, *IAEA (Austria)*

- 3. **International Policies and Strategies for the Remediation of Land Contaminated by Radioactive Material Residues** – **Abel Gonzalez**, *Argentine Nuclear Regulatory Authority (Argentina)*

- 4. **Regulatory Supervision of Legacy Sites in Central Asia** – **Malgorzata Sneve**, *Norwegian Radiation Protection Authority, Department for Emergency Preparedness and Environmental Radioactivity (Norway)*

- 1. **Advice on the US DOE Cleanup Technology Roadmap** – **John Wiley**, *National Research Council of the US National Academies (USA)*

Panelists: Horst Monken Fernandes, Russell Edge, *IAEA (Austria)*; **Abel Gonzalez**, *Argentine Nuclear Regulatory Commission (Argentina)*; **Malgorzata Sneve**, *Norwegian Radiation Protection Authority (Norway)*; and **John Wiley**, *the National Research Council of the US National Academies (USA)*

Subject to change onsite, please check the Errata sheet and signage for daily updates.

Conference Proceedings

The conference technical program proceedings are included with a full technical registration. Following the conclusion of the Conference, approximately June 2010, attendees will be mailed a CD-Rom of the Conference Proceedings to the address listed on their registration materials.

For additional copies or for those attendees who are not full technical registrants, Conference Proceedings may be purchased for \$105 each.

Also, proceedings for previous conference, the years 2002 – 2009, are available for \$105 each. Please stop by the Registration Desk for an order form.

Proceeding Archives are also available online at www.wmsym.org for the previous years 2001 – 2008. The website is one year behind the conference, WM2009 proceedings will be posted online once the WM2010 proceedings are mailed.

NOTES

Poster Sessions



Be sure to schedule time to view the posters on display. In this informal atmosphere, Poster Presenters become discussion leaders sharing their ideas and visions. Each technical track presents a poster session; see the session descriptions for more information.

The WM2010 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.

In order to honor high quality presentations at WM2010, the Fuel Cycle and Waste Management Division of the American Nuclear Society (ANS) presents an award for the Best Poster Paper in addition to the Best Oral Presentation and the American Society of Mechanical Engineers (ASME) provides an award for the runner-up.

Judges select the paper based on technical quality and poster preparation of the work as described in the guidelines. Each track also selects a best poster. The Best and Second Best in the conference are presented to the recipients at the next WM conference. All Posters with papers are automatically eligible for the "Best Poster Award". Attendee forms for judging posters will be available on the first level.

Poster Presenter Attendance

Session #	Poster Period	Attendees First Period	Attendees Second Period	Poster Setup	Poster Removal	
MONDAY, MARCH 8, 2010						
Afternoon	23	1:30 – 5:00 pm	1:30 – 2 pm	4:30 – 5 pm	1 – 1:30 pm	5 pm – 5:30 pm
TUESDAY, MARCH 9, 2010						
Morning	38	8:30 am – 12 pm	8:30 – 9 am	11:30 am – 12 pm	8 – 8:30 am	12 pm – 12:30 pm
Afternoon	52	1:30 – 5:00 pm	1:30 – 2 pm	4:30 – 5 pm	1 – 1:30 pm	5 pm – 5:30 pm
WEDNESDAY, MARCH 10, 2010						
Morning	68	8:30 am – 12:30 pm	8:30 – 9 am	12 pm – 12:30 pm	8 – 8:30 am	12:30 pm – 1 pm
Afternoon	81	1:30 pm – 5 pm	1:30 – 2 pm	4:30 pm – 5 pm	1 – 1:30 pm	5 pm – 5:30 pm

Student Posters Competition – Session 24

The Next Generation – Industry Leaders of Tomorrow

Be sure to visit the Student Posters display on Monday afternoon in the Exhibit Hall 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 WM2010 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.

WM2010 Authors Index

Session in Bold followed by the Paper Number

A

Abdelouas, Abdesselam - **81**-10028
Abdushukurov, Dzhamshed - **38C**-10178
Abercrombie, Robert - **63**-10266, **80**-10064
Abeyta, Cristy - **80**-10283
Abitz, Richard - **46**-10095
Acevedo, Cristian - **46**-10243
Adamovich, Dmitry - **23C**-10026, **78**-10189
Adamovics, John - **16**-10080
Adams, Jason - **31**-10531
Adams, Vince - **76**-10013
Adamson, Duane - **74**-10083
Adler, David - **26**-10574
Agnew, Stephen - **60**-10323
Ahn, Guk-Hoon - **38A**-10117
Ahn, Joonhong - **23D**-10096
Akar, Serkan - **52A**-10314
Akiyama, Yoshihiro - **31**-10116
Akiyoshi, Mito - **85**-10390
Akutsu, Shigeru - **38F**-10403
Al-Qudah, Omar - **24**-10290, **57**-10454, **58**-10265
Allen, Marshall - **52D**-10391
Aloy, Albert - **23B**-10304, **27**-10084, **42**-10204
Aly, Alaa - **65**-10165
An, Jae Yeol - **68C**-10196
Anagnostopoulos, Harold - **52C**-10334, **72**-10339
Angjellari-Dajci, Fjorentina - **85**-10390
Anglim, Cliff - **52A**-10420
Angus, Mike - **31**-10122
Apel, David - **38B**-10014
Aponte, Celia - **23A**-10408
Arbon, Rodney - **44**-10168
Arenaz, Mark - **32**-10065
Arlt, Hans - **61**-10138
Arnold, Joshua - **75**-10312
Arnold, Patrick - **07**-10280, **86**-10324
Arnold, Richard - **85**-10205
Arunkumar, Rangaswami - **84**-10015
Arustamov, Arthur - **19**-10114, **23C**-10026, - **81**-10580, **81**-10584
Avramenko, Valentin - **78**-10387
Awwad, Amer - **23A**-10136, 10098

B

Babenko, Volodymyr - **23D**-10124
Bahrke, Cheri - **17**-10276
Bailey, Porter - **23C**-10224
Baird, Del - **32**-10073
Bajwa, Christopher - **33**-10535, **33**-10536
Bakhtin, Meirat - **38A**-10379
Bakirova, Masiva - **52A**-10208
Balagopal, Shekar - **38F**-10485, **60**-10183
Baldwin, David - **60**-10173
Ballheimer, Viktor - **05**-10193, **63**-10090
Bamberger, Judith - **23A**-10487
Bandt, Gabriele - **87**-10450
Banerjee, Reshmi - **52D**-10493

Banfield, Zara - **06**-10361
Banford, Anthony - **49**-10362, **62**-10131
Bange, Adam - **52A**-10314
Barbour, Eric - **08**-10152
Barnes, Steve - **60**-10173
Barr, Cynthia - **68D**-10112
Baston, Peter - **09**-10495
Batifol, Béatrice - **73**-10022
Batyukhnova, Olga - **19**-10114
Baumann, Curt - **44**-10465
Bauser, Michael - **58**-10049
Bave, Edwin - **47**-10270
Beheler, Chris - **31**-10531
Bellis, Mark - **15**-10309, **65**-10409
Belov, Valery - **23B**-10304
Benally, Levon - **17**-10281
Bennett, David - **22**-10239
Benson, Craig - **76**-10013
Bera, Remi - **09**-10389, **80**-10060
Berg, Jeb - **63**-10285
Berg, John - **74**-10099
Berger, Carol - **08**-10152
Bergeron, Marcel - **43**-10402
Berlin, Greg - **17**-10419, 10472
Berwick, Joel - **80**-10238
Betancourt, Amaury - **52D**-10150
Bettencourt, Manuel - **09**-10331
Beuth, Thomas - **57**-10010
Bhat, Param - **31**-10142
Bhatt, Pankaj - **74**-10263
Bhavaraju, Sai - **38F**-10485, **60**-10183
Bhosale, Prasad - **74**-10099
Bibler, Ned - **07**-10160
Bickford, Jody - **38F**-10016, **76**-10017
Bickley, John - **44**-10168
Billnell, Dale - **38A**-10342
Billings, Kenneth D. - **43**-10393
Billingsley, Karen - **46**-10255
Birk, Marcia - **43**-10102
Bishop, Lee - **44**-10515
Biurrun, Enrique - **06**-10504, **42**-10500
Blachet, Laurent - **63**-10201
Black, Paul - **61**-10483
Blackford, L. Ty - **69**-10129
Blanc, Pauline - **38D**-10479, **52F**-10475
Bland, J Stewart - **64**-10384
Blankenhorn, James - **44**-10515
Blankenship, John - **08**-10499
Blanton, Paul - **81**-10603
Blauvelt, Dick - **30**-10596, **44**-10104
Blount, Jon - **57**-10319
Boehlecke, Robert - **32**-10325, **38C**-10338, **52C**-10334, **62**-10340
Boen, Roger - **23B**-10020
Boetsch, Wilma - **45**-10449
Boglione, Fredrick - **47**-10525
Bognar, Erin - **69**-10457
Bollingerfehr, Wilhelm - **06**-10504
Bondarenko, D.V. - **38C**-10178
Bondarkov, Mikhail - **27**-10084, **42**-10204
Bonhomme, Gaetan - **84**-10251

Bonnetier, Armand - **23B**-10051
Booth, Clare - **68D**-10377
Borak, David - **85**-10044
Bosgiraud, Jean-Michel - **42**-10032, **59**-10019
Bostick, William - **84**-10251
Bousquet, Stephen - **47**-10482
Boussier, Patrice - **73**-10063
Bowan, Bradley - **23B**-10110, 10107; **73**-10241, 10254
Boyle, James - **68G**-10421
Brady, Lee - **24**-10589
Bråkenhielm, Carl Reinhold - **42**-10528
Bramblet, John - **16**-10132
Branch, Ron - **87**-10058
Brar, Navpreet - **81**-10566
Bratskaya, Svetlana - **78**-10387
Bratton, Wes - **72**-10501
Brede, Lawrence M. - **80**-10238
Bredt, Paul - **74**-10099
Brennan, T.J. - **68C**-10288
Brennecke, Peter - **45**-10449, **57**-10448, **87**-10406, **87**-10450
Brenner, Eliot - **85**-10447
Broberg, Ken - **17**-10318
Bronson, Frazier - **18**-10021, 10497; **38D**-10479
Brown, Kevin - **61**-10149
Brown, Steven J. - **15**-10105
Brown, Steven H. - **77**-10365, 10512, 10505
Brun, Patrice - **23B**-10051
Buckner, Dooley - **63**-10266, **80**-10227
Buechi, Stephen - **47**-10525
Bugbee, Kathy - **16**-10249
Burger, Joanna - **19**-10054, **32**-10424, **85**-10106
Buriev, Nazirzhon - **38C**-10178
Burket, Paul - **23A**-10408
Burmeister, Mark - **62**-10340
Burns, Heather - **38F**-10016, **76**-10017
Bush, Richard - **17**-10281, **81**-10426
Bush, Sheryl Ross - **27**-10156
Butherford, Michael - **17**-10276
Byrnes, Mark - **65**-10320

C

Cable, Kevin - **32**-10325, **52C**-10334, **62**-10340, **64**-10327
Cabrejo, Elsa - **24**-10556
Calderin, Duriem - **24**-10547
Caldwell, Thomas - **74**-10263
Calvert, Steven - **30**-10596, **44**-10104
Campbell, J. D. - **09**-10495
Camper, Larry - **13**-10417, **77**-10418
Cannell, Gary - **68A**-10042
Canon, Ron - **26**-10574
Care, Laurent - **44**-10118
Carilli, Jhon - **07**-10280
Carlisle, Derek - **71**-10070
Carpentier, Benoit - **73**-10382
Carroll, Kenneth - **17**-10281
Carter, Ernie - **46**-10240

WM2010 Authors Index

Session in Bold followed by the Paper Number

Carter, Mitch - **30**-10523
Carter, Tony - **17**-10381
Cartwright, Richard - **81**-10066
Carvajal, Denny - **24**-10599, **52D**-10493
Case, Jeffrey - **32**-10399
Cassidy, Helen - **08**-10503
Castello, Charles - **24**-10549
Castillon, Pierre - **71**-10059
Castro, Amanda - **38B**-10014
Castro, Julio - **38B**-10014
Cathel, Robert - **68E**-10369
Caudill, Joe - **19**-10434, **19**-10436
Cavini, Cicero - **52E**-10271
Centner, Baudouin - **78**-10043
Cercy, Michael - **27**-10156
Certa, Paul - **23A**-10236
Chabalala, Simphiwe - **24**-10588
Chadwick, Chris - **84**-10569
Chamberlain, John - **65**-10409
Chamberlain, Skip - **27**-10587
Chambers, Doug - **77**-10579
Chambers, Sheri - **44**-10465
Chard, Patrick - **23C**-10496
Charpentier, David - **78**-10043
Chauvin, Eric - **15**-10128, **23B**-10051, **81**-10130
Chavez, Art - **30**-10221, **81**-10226
Chavez, Rick - **30**-10210
Chen, Kun - **81**-10378
Chen, Xingyuan - **24**-10298
Cheremisn, Peter - **68G**-10195
Chesnokov, Alexander - **81**-10584
Chester, Curtis - **44**-10050
Chilson, Lettie - **15**-10309, **65**-10409
Ching-Ho, Yang - **38D**-10086
Chirwa, Evans - **24**-10588
Cho, Dong Keun - **79**-10544
Choi, Heu-Joo - **79**-10544
Choi, Jong Won - **79**-10544
Chun, Jaehun - **74**-10099
Ciucci, John - **86**-10324
Clapham, Martin - **16**-10244
Clark, Matthew - **45**-10033
Clark, Ray - **34**-10446
Clarke, James - **32**-10424, **75**-10437
Clawson, Tom - **33**-10067
Clay, Devin - **38F**-10485
Clayton, Christopher - **17**-10351, **47**-10352
Clayton, Daniel - **59**-10429
Clement, Paul - **65**-10320
Clift, Corey - **16**-10080
Clossey, Kimberly - **81**-10566
Clough, Matt - **06**-10361
Coates, John - **61**-10259
Cochran, John - **32**-10174, **52C**-10395, **81**-10469
Cocina, Frank - **87**-10509
Collazo, Yvette - **27**-10246, **27**-10401, **46**-10345, **68C**-10233
Collins, Doug - **46**-10240
Colon, Ramon A. - **24**-10548
Conca, James - **67**-10494
Conley, Scott - **52A**-10223
Conley, T.B. - **26**-10574, **46**-10255
Connell, Carl - **52A**-10223

Connelly, Michael - **43**-10402
Cook, Alfreda - **80**-10227
Corbett, Jerry - **64**-10368
Cornell, Rowland - **31**-10101
Costigan, Steve - **38B**-10014
Cournoyer, Michael - **38B**-10014
Covert, Bruce - **38A**-10342
Cozzi, Alex - **07**-10160
Cramer, Doug - **44**-10465
Crawford, Beverly - **86**-10400
Crawford, Charles - **23A**-10408, 10467
Crawford, Gordon - **15**-10267, **23C**-10237
Crawford, Tom - **23A**-10236
Crespo, Jairo - **23A**-10098
Croff, Allen - **06**-10127
Croft, Stephen - **18**-10443, **18**-10480, **18**-10497, **23C**-10496, **38D**-10444, **38D**-10479, **52F**-10475
Cross, Paul - **32**-10073
Crosson, Kevin - **44**-10488
Crowe, Bruce - **45**-10349, **52B**-10350
Cummins, G. D. - **81**-10307
Cunningham, DeVon - **52A**-10223
Cunningham, Gerald - **87**-10058
Cuthbertson, Abigail - **34**-10282, **34**-10460, **80**-10283

D

Dalton, John - **42**-10565
Dander, Werner - **68E**-10121
Daniel, Gene - **23A**-10408
Daniel, Richard - **60**-10173
Danielson, Gustave - **22**-10008
Danilovich, Alexey - **52A**-10388, **68D**-10407
Danneels, Jeffrey - **81**-10469
Darby, John - **32**-10399
Davidson, Dorothy - **80**-10060
Davis, Gurvis - **29**-10293
Davlatshoev, T. - **38C**-10178
Dayton, Cynthia - **15**-10309, **46**-10423, **65**-10409
De Gregory, John - **41**-10452
DeFrest, Dotty - **80**-10538
Dehbi, Nabil - **52B**-10374, **72**-10292
Delaunay, Milene - **73**-10063
Delecaut, Gregory - **72**-10292
DeLeon, Edgardo - **27**-10586
Delort, Daniel - **59**-10019
Demmer, Rick - **10**-10036
Denton, Mark - **73**-10279, **84**-10251
Devgun, Jas - **71**-10300
DeVol, Timothy - **61**-10259
Dewberry, Raymond - **46**-10095
Deyo, Yvonne - **17**-10360, **66**-10354
Dias, Fabiana - **38E**-10009
Diaz, Henry - **24**-10592
Diener, Glenn - **23B**-10110
Dillinger, D.L. - **46**-10255
Dillon, Randy - **33**-10068
DiPrete, Cecilia - **07**-10160
Disanza, Frank - **31**-10268, **86**-10324
Dixon, Paul - **57**-10470
Djuraev, A.A. - **38C**-10178
Dmitriev, Sergey - **23B**-10209, 10141; **23C**-10026, **38B**-10166, **81**-10580

Doebler, Gary - **68E**-10262
Dominguez, Raul - **24**-10551
Dooley, Stephen - **45**-10228
Doremus, Steven - **32**-10231
Dornsife, William - **45**-10214
Dorries, Alison M. - **87**-10422
Doyle, Nicholas - **15**-10267
Drake, John - **10**-10036
Drellack, Sig - **65**-10337
Droste, Bernhard - **05**-10079, 10093; **05**-10193, **68F**-10038, 10187
Du, Qian - **72**-10177
Duff, Alan - **08**-10152
Duignan, Mark - **60**-10161
Duke, Stefan - **31**-10268
Duncan, Andrew - **46**-10095
Duncan, Garth - **06**-10474
Dussosoy, Jean-Luc - **73**-10022, 10063
Dutzer, Michel - **52C**-10416
Duvall, Kenneth - **08**-10152
Dux, Joachim - **71**-10088
Dysland, Eric - **76**-10507

E

Easton, Earl - **33**-10536, 10535
Eaton, Gerald - **81**-10169
Eberlein, Susan - **43**-10167, 10402
Eberlin, John - **32**-10231
Ebert, Joseph - **46**-10423
Eccles, Harry - **62**-10131
Edelman, Arnold - **85**-10205
Edwards, Matthew - **60**-10277
Edwards, Richard - **06**-10474
Edwards, Thomas - **23B**-10194, **43**-10367
Egorin, Andrey - **78**-10387
Eickelpasch, Ludger - **71**-10247
Eisenmann, Beata - **71**-10088
El Khoukhi, Tahar - **72**-10292
El Mrabet, Rachid - **38E**-10291, **52B**-10374, **72**-10292
Ellis, Kristen - **69**-10103
Ellouz, Manel - **07**-10012
Elmer, John - **17**-10276
Ely, Paul - **29**-10366
Enderlin, Carl W. - **23A**-10487
Endo, Yoshihiro - **23B**-10107
Engelking, Daniel - **45**-10415
England, Jeffrey - **80**-10458
Enokida, Youichi - **38F**-10006
Eriksson, Leif G. - **42**-10056, **58**-10018
Ermakov, Alexander - **78**-10189
Espinosa, Edgard - **24**-10552
Estill, Wesley - **86**-10400
Estrada, Joe - **32**-10174
Evans, Brent - **60**-10162
Evans, David - **47**-10258
Evans, Louise - **18**-10443, **23D**-10413, **38D**-10444
Everett, William - **38E**-10404

F

Fabjan, Marija - **38C**-10123
Fachinger, Johannes - **23D**-10027
Farfan, Eduardo - **16**-10080, **27**-

WM2010 Authors Index

Session in Bold followed by the Paper Number

10084, **42**-10204, **72**-10317
Farin, Sebastien - **42**-10032
Farner, Monte - **41**-10175
Farrell, Richard - **44**-10050
Fasten, Wolfgang - **34**-10356
Faulk, Darrin - **64**-10343
Favara, Paul - **65**-10218
Feasby, Grant - **77**-10579
Fedorov, Denis - **81**-10580, **81**-10584
Fellinger, Andrew - **27**-10508, **74**-10516
Field, Michael - **38D**-10479
Filas, Frank - **77**-10512
Filbert, Wolfgang - **06**-10504
Fillingame, Wade - **32**-10231
Fiodorov, Sergiu - **24**-10597
Fiskum, Sandy - **60**-10277
Fjeld, Robert - **61**-10259
Flach, Greg - **61**-10252
Flament, Thierry - **73**-10157
Fleisch, Joachim - **71**-10088, **73**-10089
Flit, Victor - **78**-10189
Foley, Trevor - **16**-10080, **72**-10317
Foote, Martin - **38F**-10016, **64**-10040, **64**-10159, **76**-10017
Forrester, Timothy - **87**-10058
Forsythe, David - **49**-10197
Fort, James - **23A**-10487
Foster, Steve - **31**-10122
Fournel, Bruno - **16**-10394
Fowler, John - **62**-10340
Fowley, Mark - **64**-10368
Fox, Jerry - **85**-10143
Fox, Kevin - **23B**-10304, **27**-10084, **42**-10204
France, Thomas - **64**-10368
Frappa, Richard - **65**-10409
Frenette, Douglas - **62**-10340
Freshley, Mark - **57**-10470
Fritz, Brad - **52D**-10115
Frothingham, David - **47**-10525
Fruchter, John - **52D**-10115
Frush, Shirley - **27**-10246
Fuchiwaki, Hirotaka - **57**-10371
Fuentes, Hector R. - **52D**-10222
Fuji, Kojiro - **68F**-10087
Fujisawa, Kyosuke - **68F**-10038, **68F**-10087
Fukui, Toshiki - **23B**-10107
Funk, Alan - **32**-10399

G
Gadbury, Casey - **86**-10522
Gan, Hao - **23B**-10107, **23B**-10110, **73**-10241, **73**-10254
Gannon, Reese - **38D**-10133
Garnier, Cedric - **66**-10524
Garrabrants, Andrew - **75**-10312
Garth, Brian - **73**-10157
Gaschler, Rudi - **87**-10406
Gauglitz, Phillip - **23A**-10487
Gauthier, Lorrie - **31**-10142
Gawarecki, Susan - **85**-10492
Gebhardt, Matthew - **81**-10566
Gee, Glendon - **17**-10419
Geimer, Ray - **15**-10433

Geisinger, Gregg - **07**-10332
Gelbutovsky, Alexander - **68G**-10195
Gelis, Vladimir - **23C**-10026
Geniesse, Donald - **60**-10234
Gerdas, Kurt - **23B**-10304, **27**-10084, **27**-10155, **27**-10401, **27**-10508, **42**-10204
Giaquinto, Joesph - **23C**-10224
Giddings, Ray - **19**-10436
Gilbert, Rob A. - **60**-10173
Gill, Puneet - **52A**-10314
Gillam, Jeff - **15**-10428
Gillas, Dawn - **63**-10285
Gillen, Daniel - **77**-10418
Gillespie, Joey - **17**-10351, **47**-10352
Girold, Christophe - **73**-10063, **73**-10382
Gladden, John - **16**-10080, **46**-10345
Glenet, Olivier - **59**-10019
Glenn, Ed - **17**-10281
Glowiak, Liz - **65**-10481
Gnugnoli, Giorgio - **22**-10370
Gochfeld, Michael - **19**-10054, **85**-10106
Godfrey, Hugh - **31**-10122
Gokaltun, Seckin - **23A**-10135, **23A**-10136
Goldston, W.T. (Sonny) - **19**-10041
Goldunov, Valeriy - **38B**-10166
Gordon, Sydney - **07**-10280, **07**-10332
Gorman, Bryan - **80**-10064
Gorsuch, Geoffrey - **46**-10423
Gorton, Ian - **57**-10470
Goswami, Dibakar (Dib) - **19**-10113
Gould, John - **52C**-10395
Gouyau, Frédéric - **73**-10382
Gracey, Michael - **45**-10033
Graf, Anja - **71**-10088
Graf, Reinhold - **06**-10504
Grambow, Bernd - **81**-10028
Gravelle, Charles F. - **77**-10397
Gray, Paul - **80**-10357
Green, Peter - **72**-10317
Greeves, John - **41**-10441, **45**-10575
Gresalfi, Michelle - **68C**-10233
Gresham, Lawrence - **62**-10035
Griffin, Jeff - **27**-10401, **27**-10508
Griffin, Justin M. - **80**-10283
Griffin, William - **08**-10499
Grinev, Ilja - **68G**-10195
Grogan, Kelly - **61**-10259
Gros Gean, Philippe - **81**-10571
Gross, Michael - **30**-10221, **30**-10595
Grosse, Karl-Heinz - **23D**-10027
Gruber, Philippe - **15**-10128, **73**-10022
Gruenewald, Wolfgang - **73**-10089
Gründler, Detlef - **45**-10449, **87**-10406
Gudavalli, Ravi Krishna Prasanth - **24**-10555
Gudelis, Arunas - **52C**-10416
Guenin, Jean-Jacques - **59**-10019
Guerault, Juliette - **18**-10443
Gueretta, Jeanie - **52A**-10420
Guerif, Henri Noel - **73**-10157

Guillois, Eric - **73**-10157
Gulik, Volodymyr - **23D**-10124, **24**-10585
Gupta, Dinesh - **76**-10013
Gupta, K. K. - **15**-10309
Gupta, RK - **15**-10078, **23A**-10211

H
Hackel, Walter - **87**-10450
Hackett, Mark - **46**-10423
Hagan, Madoc - **31**-10101
Hageman, John - **87**-10509
Hahn, Melanie - **24**-10298
Haider, Claudia - **45**-10449, **87**-10406
Hale, Olin T. - **34**-10282
Hall, Debora - **87**-10422
Hall, Michel - **38D**-10133
Halliwell, Steve - **18**-10451
Hamdan, Lubna - **58**-10265
Hamilton, Peggy - **41**-10175
Hamm, Luther - **61**-10145
Han, Ana - **27**-10084, **42**-10204
Hansen, Erich - **74**-10099
Hansen, Frank - **59**-10411
Hanson, James - **57**-10319, **65**-10286
Hara, Junko - **42**-10182
Hardwick, Tawni - **79**-10217
Harjula, Risto - **38B**-10305, **68B**-10198, **78**-10387
Harper, Michael - **46**-10255
Hart, Andrea - **64**-10040, 10159
Harvill, Joe - **44**-10465
Haverkamp, Bernt - **06**-10504
Hay, Michael - **43**-10308
Hayes, Colin - **10**-10232
Hayes, Martin - **31**-10122
Hays, David - **47**-10153
Hearty, Brian - **47**-10270
Heath, Tim - **41**-10175
Hebditch, David - **10**-10030
Henao, Alexander - **24**-10591, **52D**-10222
Henderson, Colin - **81**-10147
Henderson, Ed - **75**-10029
Henderson, Robert W. - **71**-10247
Henwood, Paul - **72**-10438
Hernandez, Reinier - **24**-10590
Hertel, William A. - **17**-10318
Herzog, Friedrich - **45**-10415
Hesketh, Kevin - **42**-10376
Hickey, Howard - **32**-10231
Hiergesell, Robert - **61**-10145
Hildebrand, R. Douglas - **52A**-10223
Hill, David - **80**-10064
Hill, Marc - **52C**-10037
Hilton, Paul - **16**-10092
Hiltz, Thomas - **06**-10127
Hinckley, Alan - **81**-10385
Hodge, Devin - **44**-10488
Hoffman, Elizabeth - **43**-10367
Holden, Eddie - **80**-10227
Hollebecque, Jean Francois - **73**-10157
Holmes, Chris - **16**-10080, **68D**-10377, **72**-10317
Hombach, W.G. - **68C**-10288
Homer, John - **17**-10360

WM2010 Authors Index

Session in Bold followed by the Paper Number

Honerlah, Hans - **29**-10293
Hong, Dae-Seok - **31**-10316
Horita, Mami - **62**-10303
Horton, David - **32**-10231
Hosseini, Mahsa - **24**-10576
Howard, Bryan - **30**-10523
Howell, JT - **26**-10574
Hrovat, M. - **23D**-10027
Htway, Myo Zaw - **38A**-10344
Huang, Zhongyuan - **72**-10177
Hubbard, Michael - **43**-10393
Huckaby, Jim - **60**-10173
Huff, Thomas - **23A**-10502
Hugon, Isabelle - **73**-10022
Hulstrom, Larry - **52A**-10559
Humphrey, Betty - **86**-10490
Hung I, Tsai - **38D**-10086
Hunter, Erik - **81**-10577
Hunter, Jeff - **41**-10452
Huon, Nicolas - **15**-10128
Hwa-jou, Wei - **38D**-10086
Hwang, Jou - **46**-10213, **68A**-10171
Hyatt, Jeannette - **41**-10301

I

Idarraga, Melina - **24**-10546
Ierardi, Mario - **10**-10232
Iijima, Kazuki - **23D**-10120
Iimura, Izumi - **23C**-10061
Ikeda, Kaoru - **23C**-10179
Ilyukhina, Natalia - **23B**-10348
Imasheva, Bagdat - **38A**-10379
Ishida, Hiroshi - **60**-10183
Ivanov, Oleg - **52A**-10388, **68D**-10407

J

Jackson, Peter - **68D**-10377, **72**-10317
Jacobs, Albert - **38E**-10404
Jacobson, Carl - **17**-10276
Jacomino, Vanusa Maria - **38E**-10009
James, David - **79**-10540
James, Mike - **76**-10507
James, Ryan - **10**-10036
Jang, Ping-Rey - **62**-10035
Jang, Youngsik - **38G**-10353
Jannik, Tim - **16**-10080, **27**-10084, **42**-10204
Jansik, Danielle - **64**-10159
Jantzen, Carol - **23A**-10408, **23A**-10467
Jarvis, Richard - **62**-10131
Jencic, Igor - **66**-10306
Ji, Young-Yong - **31**-10316
Johnson, Austin - **19**-10434, **19**-10436
Johnson, Caroline - **23A**-10408
Johnson, Marshall - **46**-10255
Johnston, Frank - **17**-10360
Jones, Dennis - **23A**-10502
Joseph, Innocent - **23B**-10107, **73**-10241, **73**-10254
Jossens, Guillaume - **18**-10443
Jouissance, Pierre Richard - **81**-10297
Jubin, Robert - **16**-10249, **23C**-10224, **38F**-10248

Jung, Hoan Sung - **38A**-10117

K

Kaczor, James - **47**-10482
Kadyrov, Ilgiz - **38B**-10166
Kaffka, Elke - **87**-10406
Kale, NR - **15**-10078
Kalinowski, Thomas - **79**-10540
Kamachev, Vladislav - **38B**-10074, **76**-10031
Kane, Marie - **46**-10095
Kane Smith, S. - **38D**-10375
Kang, Il-Sik - **31**-10316
Kaplan, Daniel - **61**-10259
Karanovic, Marinko - **65**-10320
Kari, Mika - **66**-10192
Karlin, Yury - **78**-10189
Karr, Lynn - **81**-10385
Kato, Takashi - **60**-10183
Katsenovich, Yelena - **52D**-10222, 10493
Kawatsuma, Shinji - **62**-10303
Kazymbet, Polat - **38A**-10379
Keefe, Mark - **15**-10428
Kehrman, Robert - **30**-10206, 10210
Keil, Karen - **47**-10482
Keith, Lloyd - **81**-10169
Kelley, Dennis - **76**-10031
Kemp, Chris - **43**-10402
Kenna, Thomas - **47**-10482
Ketusky, Edward - **23A**-10502
Kholosha, Volodymyr - **22**-10398, **38C**-10250
Kidman, Raymond (Lynn) - **52C**-10334, **72**-10339
Kim, Ahreum - **38C**-10071
Kim, Dong-Sang - **27**-10084, **42**-10204
Kim, T. K. - **31**-10316
Kimura, Hideo - **23D**-10077
King, Rebecca - **62**-10340
King, Terry - **68E**-10369
King, William - **43**-10308
Kirishima, Akira - **23D**-10096
Kirk, J. Scott - **45**-10214
Kirk, Paula - **27**-10246
Kiselev, Mikhail F. - **22**-10191
Kneitel, Terri - **80**-10538
Knight, Paul - **16**-10080
Knyazev, Igor - **23B**-10141
Knyazev, Oleg - **23B**-10141
Ko, Byung-Wook - **38A**-10076
Kobelev, Alexander - **23B**-10209, **38B**-10166
Kock, Andrea - **77**-10245
Kogawa, Masashi - **81**-10028
Koischwitz, Ingmar - **78**-10534
Koivula, Risto - **38B**-10305, **68B**-10198
Kojo, Matti - **66**-10192
Kolhoff, Andrea - **47**-10270
Kollar, William - **47**-10055
Komai, Takeshi - **42**-10182
Komann, Steffen - **05**-10193, **63**-10090
Komatsuki, Seiji - **68F**-10038, **68F**-10087

Kook, D.H. - **79**-10544
Kopotic, James D. - **26**-10574
Korioth, Johnelle - **33**-10144
Kosson, David - **61**-10149, **61**-10468, **75**-10312
Kostanjevec, Marko - **38C**-10123
Köster, Siegfried - **42**-10500
Kot, Wing K. - **23B**-10110, **73**-10241, **73**-10254
Kothari, Vijendra - **17**-10351, **47**-10352
Kouba, Steve - **23C**-10435, **30**-10221, **30**-10595
Koyama, Shinichi - **23C**-10179
Kozlitin, Evgeny - **23C**-10026
Krauss, Mark - **64**-10327
Krenzien, Susan - **07**-10280, **22**-10412
Kretinin, Olexandr - **38C**-10250
Kroeger, Heinz - **87**-10450
Kronvall, Charles - **68A**-10042
Kruger, Albert - **73**-10241
Krumbach, Hardi - **38C**-10046
Kufel, Todd - **47**-10525
Kugel, Karin - **45**-10449
Kuhl-Klinger, Kristine - **68A**-10171
Kula-Kreidler, Zoe - **24**-10601
Kuo, PT - **46**-10213
Kurasch, David - **46**-10423
Kurath, Dean - **60**-10173
Kuschke, Christian - **68F**-10187
Kuzumaki, Takenori - **24**-10598
Kwong, Simon - **57**-10047, **75**-10029

L

Labalette, Thibaud - **42**-10032
Lacombe, J. - **23B**-10020, **23B**-10051, **73**-10022, **73**-10063
Lacroix, JeanPierre - **72**-10292
Lacroix Desmazes, Patrick - **16**-10394
Ladirat, Christian - **23B**-10020, **23B**-10051
Lagos, Leonel - **24**-10550, **38C**-10296, **41**-10452, **52A**-10314, **52B**-10489, **52D**-10493, **67**-10200, **68B**-10430
Laissaour, A. - **52B**-10374
Landais, Patrick - **42**-10032
Lang, Herbert - **79**-10062
Langton, Christine - **08**-10499
Lashchenova, Tatiana - **23B**-10348
Lattin, William - **44**-10168
Lauer, Michael - **13**-10514
Lauzel, Julien - **15**-10128, **73**-10157
Lawless, Bill - **85**-10390
Lawton, Cindy - **38B**-10014
Layton, Mark - **43**-10111
Leary, Kevin - **17**-10472, **17**-10419
Lebedev, Vladimir - **23B**-10139, 10209
Ledford, Wayne - **30**-10596, **44**-10104
Ledoux, Alain - **23B**-10020, **73**-10022, **73**-10063
Lee, Angela - **31**-10142
Lee, Cheo Kyung - **38A**-10117, 10344
Lee, Doo-Ho - **38G**-10180, 10353

WM2010 Authors Index

Session in Bold followed by the Paper Number

Lee, Gab Bock - **38G**-10180, **38G**-10353, **52C**-10185
Lee, Jong-Youl - **79**-10544
Lee, Jongkuk - **52F**-10126
Lee, Kei-Woo - **38A**-10076
Lee, Kun Jai - **52F**-10126
Lee, Patricia - **46**-10345
Lee, S.Y. - **23D**-10413
Lee, Sang-Hun - **38G**-10180
Lee, Sook-Kyung - **38A**-10076
Lee, Sun Kee - **68C**-10196
Lee, Yoon Hee - **52F**-10126
Lee-Chung, Men - **38D**-10086
Leggett, Christina - **24**-10602
Lehmann, Karl-Heinz - **79**-10062
Leishear, Robert - **64**-10368
Lemieux, Paul - **10**-10232
Lemonnier, Stéphane - **73**-10022
Lerch, Jeff - **52A**-10559, **72**-10558
Lesinski, Mark - **49**-10100
Lesko, Karen - **41**-10175
Letourneau, Martin - **19**-10445, **22**-10412, **61**-10468, **75**-10437
Levitt, Marc - **81**-10147
Li, Chen-zhong - **52D**-10493
Lieberman, Jim - **45**-10575
Lifanov, Fedor - **23B**-10209, **38B**-10166
Lim, In-Cheol - **38A**-10117
Lim, Suk Nam - **18**-10451
Lim, Yong Kyu - **68C**-10196
Lima, Nadia - **24**-10550
Lindner, Jeff - **74**-10109, **81**-10264
Link, Steven - **17**-10419, **17**-10472
Little, Nelson - **64**-10343
Liu, Yung - **81**-10378
Llewellyn, Jean - **67**-10432
Lobach, Gennady - **52D**-10294
Loeffler, Robin - **68A**-10171
Loftin, Bradley - **80**-10458
Long, Juliet - **22**-10239
Long, Zhiling - **62**-10035
Lopukh, Dmitry - **27**-10084, **42**-10204
Lorenz, Susan - **26**-10563
Lorey, Peter - **47**-10482
Lott, Sheila - **86**-10522
Loudon, David - **45**-10023
Lowery, Patrick - **81**-10566
Lucon, Peter - **44**-10168
Lutwyche, Peter - **22**-10239
Lutz, Werner - **68E**-10121
Lyon, Jeffery - **43**-10402

M

Macdonald, Alastair - **22**-10239
MacDougall, Jeff - **38C**-10338
MacEvoy, John - **47**-10235
MacFarlan, Gary - **46**-10484
MacGregor, John - **16**-10081
Mackenzie, Donald - **16**-10080
Mackie, William - **30**-10053
Mackin, PMP, John - **44**-10488
Mahadevan, Sankaran - **61**-10149
Mahoney, Lenna - **60**-10173
Mahut, Philippe - **15**-10128
Malinen, Leena - **38B**-10305

Malkoske, Grant - **34**-10356, **80**-10357
Mamedov, Gudrat - **52A**-10208
Margraf, Sonja - **87**-10450
Markovtseva, Tatiana - **78**-10387
Marra, James - **23B**-10139, **23B**-10304, **27**-10084, **42**-10204
Marsden, David - **73**-10157
Martin, Bruce - **64**-10368
Martin, David - **34**-10282
Martin, Jon - **10**-10030
Martino, Christopher - **43**-10308
Marutzky, Sam - **45**-10349
Maryak, Matthew - **64**-10440
Mason, J. Brad - **60**-10162
Masud, Sarif - **24**-10576
Matela, Karel - **29**-10453
Mathonat, Christophe - **18**-10443
Matlack, Keith - **23B**-10107, **23B**-10110, **73**-10241, **73**-10254
Matthews, Patrick - **32**-10325, **52C**-10334
Mattigod, Shas - **52D**-10150, **64**-10040, **64**-10159
Matzke, Jim - **80**-10283
Mayenna, Amena - **65**-10165
McCain, Rick - **72**-10438
McCann, Sean - **71**-10405
McCarthy, Mindy - **72**-10034
McCauslin, Susan - **23C**-10435
McCown, Jay - **24**-10355
McCullum, Rod - **58**-10049
McCurdy, Greg - **81**-10385
McDaniel, Dwayne - **23A**-10098, **23A**-10135, **23A**-10136, **23A**-10137
McElhaney, S.A. - **18**-10527
McElroy, Robert - **18**-10497
McGetrick, Lee - **26**-10574
McGinnis, Greg - **29**-10366
McGinnis, Phil - **27**-10156
McGowan, Bryan - **73**-10157
McGowan, Joseph - **68G**-10421
McHugh, Joe - **22**-10239
McKinley, Jim - **52D**-10115
McKirby, Bruce - **42**-10565
McMillan, Peter - **31**-10142
McNeil, Ella - **33**-10067, **33**-10068
McTaggart, Jerri - **30**-10523, **86**-10522
Meeussen, JCL - **61**-10149, **75**-10312
Mehdiyeva, Afat - **52A**-10208
Mehta, DB - **23A**-10211
Mehta, Sunil - **65**-10165
Mellor, Russell - **08**-10052, **16**-10081
Menna, Nabil - **23C**-10496, **38D**-10375, **52F**-10475
Mendez, William - **24**-10553
Mendoza, Donald - **52D**-10115
Menlove, Howard - **23D**-10413
Merced, Arnaud - **81**-10130
Meredith, David - **69**-10146
Métral, Didier - **81**-10571
Metzler, Donald - **26**-10471, **65**-10481
Meyer, Carrie - **85**-10274
Meyer, Perry - **23A**-10487
Meyer, Robert - **77**-10510

Meyers, E. Steve - **23C**-10224
Meza, Juan - **57**-10470
Michalczak, Linda - **65**-10409
Michelotti, Roy - **38B**-10014
Middleton, Michael - **22**-10239
Miller, Bill - **81**-10570
Miller, Carlyle - **72**-10034
Miller, Charles - **65**-10165
Miller, David - **17**-10281, **52C**-10395
Miller, John - **34**-10356, **80**-10357
Miller, Judith - **17**-10381
Miller, Scotty - **87**-10422
Miller, Steven F. - **81**-10307
Miller, Timothy - **18**-10007
Mills, Robert - **16**-10080
Milyutin, Vitaly - **23C**-10026
Mimura, Hitoshi - **23C**-10179, **23D**-10096, **23D**-10120
Minayo, Edouard - **81**-10130
Minette, Michael J. - **23A**-10487
Minges, Juergen - **71**-10088
Minichan, Rick - **64**-10368, **74**-10516
Misra, SD - **15**-10078, **23A**-10211
Moak, Don - **69**-10129
Möbus, Guenter - **23B**-10202
Moe, M.A. - **68C**-10288
Mohamed, Yasser - **81**-10469
Monts, David - **62**-10035
Moody, Dave - **30**-10363
Moore, David - **17**-10281
Moore, Robert - **52D**-10115
Morimoto, Yasutomi - **60**-10183
Morris, Kara - **38D**-10479
Morris, Sarah - **17**-10281
Morris, William - **32**-10231
Morrison, Kimberly - **77**-10512
Morse, John - **65**-10287, **65**-10320
Mort, Paul - **16**-10081
Moser, Ken - **72**-10501
Most, William - **30**-10206, **30**-10210
Motiejunas, Stasys - **52C**-10416
Moulton, David - **57**-10470
Mounsey, Chris - **76**-10507
Mourya, SK - **23A**-10211
Mueller, Wilhelm - **18**-10480, **18**-10497, **38D**-10479
Mueth, Joachim - **31**-10199
Mullen, Lisa - **81**-10562
Muller, Cassandra - **33**-10144
Müller, Karsten - **05**-10079, **05**-10093, **68F**-10038, **68F**-10087
Munakata, Masahiro - **57**-10371
Munroe, Norman - **52A**-10314
Muntean, Ioan - **38C**-10373
Murakami, Haruko - **24**-10298
Murray, Christopher - **65**-10320
Musoliff, Andre - **05**-10079, **68F**-10038, **68F**-10087
Mustafina, Roza - **38A**-10379
Myers, David - **43**-10167, **81**-10147

N

Naghiyev, Jalal - **52A**-10208
Nakagami, Motonori - **68F**-10038, **68F**-10087
Nakajima, Takahiro - **31**-10116
Nakatsuka, Yoshiaki - **62**-10303

WM2010 Authors Index

Session in Bold followed by the Paper Number

- Nakazawa**, D - **18**-10497, **38D**-10375, **38D**-10479
Naline, Sandrine - **73**-10382
Nam, Su-Yong - **38G**-10180
Namekawa, Maki - **57**-10371
Narita, Masayuki - **23D**-10096
Nash, Charles - **60**-10161
Navarro, Mariano - **75**-10069
Navarro, Martin - **57**-10010
Neal, George - **38B**-10014
Neeway, Jim - **81**-10028
Negi, Masahiro - **31**-10116
Negin, Charles - **46**-10345
Neill, Helen - **52E**-10220
Neill, Robert - **22**-10517
Nelson, Roger - **30**-10053, **30**-10363, **57**-10470
Nelson, Todd - **38A**-10342
Neumann, Martin - **05**-10193, **63**-10090
Neumeyer, Tino - **68F**-10187
Newton, D. Dean - **63**-10266, **80**-10227
Ng, Betty - **22**-10239
Nicklaus, Donna - **46**-10240
Nigam, Hitesh - **27**-10586
Niibori, Yuichi - **23C**-10179, **23D**-10120, **23D**-10096
Nishio, Takashi - **68F**-10087
Noack, Volker - **07**-10012
Norton, O. Perry - **62**-10035
Novikov, Anatoly - **38C**-10250
Numata, Mamoru - **60**-10183
- O**
O'Connor, Stephen - **33**-10533
O'Neill, Harry - **72**-10501
Odencrantz, Joe - **72**-10501
Ohashi, Akikazu - **23B**-10107
Ohnishi, Takashi - **23C**-10179
Ohuchi, Masaru - **62**-10303
Ojovan, Michael - **19**-10114, **23B**-10202
Oldham, Mark - **16**-10080, **72**-10317
Oldiges, Olaf - **78**-10534
Olds, Erik - **85**-10274
Olsen, Victoria - **24**-10600
Olson, Arlin - **60**-10162
Omel, Peter - **74**-10275
Orchard, Brady - **38D**-10133
Ordoñez, Manuel - **75**-10069
Osaka, Masahiko - **23C**-10179
Ostrander, Terry - **68A**-10042
Ouzounian, Gérald - **42**-10032
Owens, Steve - **23C**-10224
- P**
Paksy, Andras - **75**-10029
Pant, Prabhakar - **24**-10550, **52B**-10489, **52D**-10391
Papin, Yann - **73**-10022
Parker, Frank - **58**-10085
Parsons, Michael - **84**-10015
Partington, Tom - **68D**-10377
Passelegue, L. - **18**-10443
Patel, Romani - **23A**-10137
Patil, SP - **23A**-10211
Patterson, Russell - **23C**-10435, **30**-10221, **30**-10595, **57**-10470, **81**-10226
Patton, Bradley - **16**-10249, **38F**-10248
Paulsen, Ron - **72**-10558
Pavlovych, Volodymyr - **23D**-10124
Pawloski, Gayle - **65**-10337
Payne, Christina - **60**-10162
Peake, Thomas - **10**-10232
Pearson, Larry - **74**-10109
Pearson, Michael - **34**-10460, **80**-10283
Peacock, Keith - **29**-10045
Peeler, David - **23B**-10194, **23B**-10304
Pegg, Ian - **23B**-10107, **23B**-10110, **73**-10241, **73**-10254
Peiffer, Frank - **59**-10011
Pendleton, Justin - **38F**-10485, **60**-10183
Pereira Mendes, Fabrice - **15**-10128, **73**-10157, **81**-10130
Pernot, Laurence - **09**-10389
Perona, Ralph - **61**-10483
Pescayre, Laurent - **73**-10022
Petersen, Scott - **65**-10287
Peterson, Reid - **60**-10277
Peterson, T. A. - **18**-10527
Petrasek, Albert Brandt - **85**-10205
Petroka, D - **38D**-10375
Petrovic, Bojan - **24**-10594
Pfeifer, Wolfgang - **71**-10088, **73**-10089
Phelps, Ralph - **09**-10495
Phifer, Mark - **61**-10145
Phillips, Sasha - **18**-10443
Phillips, Chris - **42**-10376
Phillips, Lisa - **22**-10370
Phillips, Valerie - **81**-10264
Pill, Ken - **65**-10481
Pilz, Elaine - **81**-10426
Pokhitonov, Yury - **38B**-10074, **76**-10031
Polkanov, Mikhail - **23B**-10139, **38B**-10166
Poncet, Bernard - **71**-10414
Ponomaryova, Irene - **23B**-10348
Pope, Ron - **81**-10378
Poppeliers, Christian - **85**-10390
Portsmouth, Jim - **33**-10068, **80**-10238
Powell, Jane - **17**-10318, **17**-10360, **66**-10354
Powell, John - **87**-10058
Powers, Charles - **85**-10106
Praxl, Hubert - **68E**-10121
Precht, Erwin - **71**-10088
Pressnell, Tammy - **33**-10068
Pribanic, Tomas - **23A**-10136
Primack, Michelle - **69**-10146
Primrose, Annette - **38C**-10338, **52E**-10336
Printz, Rudolf - **29**-10453
Prod'homme, Anthony - **73**-10157
Proskura, Mykola - **22**-10398
Prucker, Ernst - **79**-10062
Ptashkin, Alexander - **23B**-10141
Pulley, Larry - **79**-10217
Punt, Adrian - **49**-10529
Puzanov, Yury - **19**-10114
- Q**
Qiao, Linan - **05**-10193, **63**-10090
Quercetti, Thomas - **05**-10079, **68F**-10038, **68F**-10087
Quintero, Walter - **38C**-10296, **41**-10452
- R**
Rackham, Jamie - **18**-10072
Ramazanov, Mahammadali - **52A**-10208
Ramey, Dan - **23C**-10224
Rampe, John - **26**-10521
Rapko, Brian - **60**-10173
Rasmussen, Brandon - **16**-10244
Raszewski, Fabienne - **23B**-10194
Rawl, Richard - **80**-10283
Ray, Jeffrey - **07**-10160
Rector, David - **74**-10477
Regalbuto, Monica - **27**-10155
Reigel, Marissa - **07**-10160
Reising, Johnny - **26**-10380
Remark, John - **23A**-10502
Resch, Tom - **52D**-10289
Resseguie, David - **80**-10064
Reynolds, Daniel - **23A**-10075
Reynolds, Jacob - **23A**-10075
Rhoderick, Jay - **69**-10146
Rhodes, Chris - **06**-10361
Ribaut, Tiphaine - **16**-10394
Riddelle, Jeffrey - **65**-10286, **81**-10307
Ridge, A. Christianne - **77**-10245
Rieman, Craig - **26**-10396
Riley, John - **33**-10067
Ritchey, Joe - **65**-10481
Rivera, James - **38D**-10133
Roach, Jay - **27**-10084, **42**-10204
Roanhorse, Madeline - **17**-10281
Robineau, Vincent - **73**-10382
Robinson, Sharon - **16**-10249, **38F**-10248
Rochette, Elizabeth - **43**-10402
Rock, Cynthia - **26**-10563
Rockhold, Mark - **24**-10298
Roddy, L.C.M - **26**-10574
Rodgers, Molly - **10**-10232
Rodriguez, Juan - **19**-10434, **19**-10436
Roelant, David - **23A**-10098, **23A**-10136, **23A**-10137, **38C**-10296, **52D**-10222
Rogers, Donna - **24**-10355, **24**-10358, **72**-10177
Rohay, Virginia - **72**-10438
Romanato, Luiz Sergio - **23C**-10302
Romanko, Terry - **81**-10242
Roos, Allen - **47**-10055
Roos, Richard - **19**-10434, **19**-10436
Rosales, Reny - **23A**-10098
Ross, David N. - **62**-10131
Roth, Guenther - **73**-10089

WM2010 Authors Index

Session in Bold followed by the Paper Number

Roulet, Alain - **59**-10019
Rubin, Yoram - **24**-10298
Rucker, Dale - **81**-10147
Ruiz, Jean-Christophe - **16**-10394
Ruskauff, Greg - **45**-10349, **52B**-10350
Rustick, Joseph - **75**-10437
Ryan, Kevin - **60**-10162
Ryu, Woo-Seog - **31**-10316
Rzyski, Barbara Maria - **23C**-10302

S

Saito, Tatsuo - **62**-10303
Sajith, P - **15**-10078
Sakai, Ryutaro - **57**-10371
Saldivar, Jr., Eloy - **41**-10301
Sandhanshive, Devendra - **15**-10078
Sanford, Peter - **68C**-10288
Santos, Joe - **46**-10095
Saraswat, JK - **15**-10078
Sarkar, Sohini - **61**-10149
Sarrade, Stephane - **16**-10394
Sartelet, Stephane - **73**-10157
Sarten, Sondra - **38C**-10313
Sasaki, Toshihisa - **62**-10303
Sato, Kazuhiko - **62**-10303
Sattler, John - **26**-10537
Saunders, Scott - **41**-10175
Saupe, Geoffrey B. - **24**-10576
Sauvage, Emilien - **23B**-10051
Savage, Melissa - **19**-10284
Savkin, Alexander - **78**-10189, **81**-10580
Sawada, Kayo - **38F**-10006
Schassburger, Richard - **26**-10560
Schear, M.A. - **23D**-10413
Scheve, Don - **80**-10227
Schiesswohl, Steve - **17**-10276
Schmidt, Duane - **68D**-10112
Schmidt, Peter - **32**-10091
Schmidt, Rebecca - **85**-10447
Schneider, Ken - **26**-10574, **38F**-10248, **46**-10255
Schneider, Steven - **27**-10155, 10156, 10508
Schubert, Allen - **69**-10457
Schultheisz, Daniel - **10**-10232, **22**-10370
Scott, Paul A. - **23A**-10487
Scott, Stephen - **73**-10157
Seaman, John - **61**-10259
Seemann, Richard - **23D**-10027
Seitz, Roger - **46**-10345, **57**-10470, **61**-10468
Semenov, Konstantin - **81**-10584
Semenov, Sergey - **81**-10584
Semenova, Irina - **19**-10114
Seol, Chang-Woo - **38A**-10117
Serrato, Mike - **08**-10499, **46**-10243
Shafer, David - **81**-10385
Shah, Hasmukh - **15**-10428
Shaikhin, Serik - **38A**-10379
Shandala, Natalia K. - **22**-10191
Shankar, Arjun - **80**-10064
Sharma, Vishwani - **23A**-10137
Sharpe, Jonathan - **18**-10072
Shedder, Linda - **17**-10281

Sheldon, Frederick - **80**-10064
Shendge, SR - **15**-10078
Sherbini, Sami - **68D**-10112
Shestopalov, Viacheslav - **22**-10398
Shibata, Yuichi - **23C**-10061
Shimskey, Rick - **60**-10277
Shoffner, Peggy - **38C**-10296, **41**-10452, **68B**-10430
Shott, Greg - **61**-10158
Shreekumar, B - **15**-10078
Shrimpton, David - **57**-10319
Shuler, James - **80**-10458, **81**-10378
Shult, Robin - **29**-10366
Shultz, John - **27**-10155, **27**-10401
Shvetsov, Sergey - **23B**-10209
Sifuentes, Soledad - **44**-10050
Sillanpaa, Mika - **23A**-10502
Simpkin, Tom - **57**-10319, **65**-10218, **65**-10286
Simpson, Alan - **18**-10527
Singh, AK - **23A**-10211
Singley, Paul - **80**-10283
Siqueira, Maria Célia - **38E**-10009
Skelly, Michael - **52C**-10395
Skidmore, Thomas - **43**-10393
Skillen, Nick - **73**-10157
Skov, Jeffrey - **45**-10214
Skubal, Karen - **27**-10587
Slater, Steve - **16**-10081
Small, Joe - **57**-10047
Smegal, John - **76**-10013
Smirnov, Sergey - **52A**-10388, **68D**-10407
Smith, Clive - **67**-10432
Smith, Cyrus - **80**-10064
Smith, Frank - **61**-10145
Smith, Laura - **81**-10264
Smith, Steve - **16**-10244
Sneve, Malgorzata - **22**-10191
Snow, Lane - **60**-10277
Snyder, Duane - **86**-10324
Sobotovich, Emlen - **22**-10398
Sohn, SoonHwan - **38A**-10076
Sommer, Christopher - **24**-10594
Song, Kyu-Min - **38A**-10076
Spann, Holger - **45**-10415
Spencer, Barry - **23C**-10224
Spiliotopoulos, Alex - **57**-10319
Spires, Renee - **43**-10310
Spirin, Nikolay - **38B**-10166
Spoerner, Michael - **86**-10490
Spreng, Carl - **19**-10113
Stacey, Weston - **24**-10594
Stahn, Burkhard - **29**-10453
Stanfield, Sean - **23C**-10496, **44**-10465
Stanley, Steven - **16**-10080, **68D**-10377, **72**-10317
Staub, Aaron - **07**-10160, **31**-10531
Steeper, Tim - **64**-10368
Stefanovsky, Sergey - **23B**-10139, **23B**-10141, **23B**-10209, **23B**-10348, **27**-10084, **42**-10204
Steger, Randal - **30**-10596
Steininger, Walter - **42**-10500
Steinmetz, Hans-Jürgen - **38C**-10046
Steinmeyer, Paul - **64**-10384

Stepanov, Vyacheslav - **52A**-10388, **68D**-10407
Stevens, Andrew - **46**-10213
Stewart, Mark - **74**-10477
Stewart, Paul - **74**-10225
Stewart, Wendy - **52C**-10037
Stewart, William - **87**-10509
Steyer, Stefan - **45**-10449, **87**-10450
Stoll, Ralph - **41**-10441
Stoychev, Ivan - **16**-10394
Strassman, E. Don - **79**-10217
Streng, Dave - **30**-10210
Suarez, Scott - **38F**-10485
Subramanian, Karthik - **64**-10440
Sucic, Simona - **38C**-10123
Sudduth, Christie - **23A**-10502
Sugai, Hiroshi - **38F**-10006
Sugaya, Atsushi - **38F**-10403
Sullivan, Nick - **16**-10249
Sung-Yeop, Jeong - **18**-10451
Suntsov, Dmitriy - **23B**-10139, **23B**-10209
Suzuki, Yasuhiro - **60**-10183
Swiger, Harold - **17**-10360
Swingle, Robert - **61**-10145
Swinhoe, M.T. - **23D**-10413
Sydnor, Harold - **43**-10167
Szecsody, Jim - **52D**-10115, **52D**-10289
Szilagyi, Andrew - **27**-10246, **46**-10345, **68C**-10233

T

Tachiev, Georgio - **23A**-10137, **52D**-10222
Taddei, Maria Helena - **38E**-10009
Tagami, Keiko - **23D**-10346, **23D**-10347
Takebe, Shinichi - **62**-10303
Takeda, Seiji - **23D**-10077
Tamosaitis, Walter - **06**-10474
Tamura, Naoyuki - **23D**-10120
Tanaka, Katie - **07**-10332
Tanaka, Kenji - **38F**-10403
Tansel, Berrin - **52D**-10391, **52D**-10493
Tappen, Jeffrey - **81**-10385
Tauxe, John - **41**-10441, **61**-10483
Taylor, Paul - **24**-10549
Taylor, Tim - **32**-10231
Taylor, William - **46**-10213
Tchemitcheff, Eric - **73**-10063
Tedeschi, Rick - **60**-10170
Tek, Vekalet - **52A**-10314
Templin, Emily - **19**-10284
Temus, Charles - **05**-10459
Terada, Kenji - **31**-10116
Thaxton, George - **64**-10368
Thien, Mike - **74**-10083
Third, Dik - **10**-10030
Thomas, Andy - **16**-10080
Thomas, Bill - **08**-10152
Thomas, Mike - **42**-10376
Thompson, Michael - **65**-10287
Thompson, Michael D. - **81**-10307
Thompson, Richard - **71**-10405
Thompson, Steven - **32**-10073

WM2010 Authors Index

Session in Bold followed by the Paper Number

Thomson, Bruce - **22**-10526
Thundat, Thomas - **52A**-10314
Tiller, Brett - **72**-10558
Timm, Christopher - **22**-10526, **33**-10144, **85**-10143
Tobie, Winfried - **73**-10089
Tobin, Stephen - **23D**-10413
Toghiani, Rebecca - **74**-10109, **81**-10264
Tokarevsky, Volodymyr - **22**-10398, **38C**-10250, **52D**-10294
Tonkin, Matthew - **57**-10319, **65**-10286, **65**-10287, **65**-10320
Townson, Paul - **74**-10275
Tran, Phung - **79**-10540
Traverso, Edward - **64**-10384
Traynham, Brooke - **32**-10424
Trofimenko, Alexander - **23B**-10304
Tronche, Eric - **15**-10128, **23B**-10020
Troshev, Alexander - **68G**-10195
Troyer, Josh - **81**-10426
Truex, Michael - **52D**-10289
Tsai, Hanchung - **81**-10378
Tsuey-Lin, Tsai - **38D**-10086
Tucker, Brian - **47**-10258

U

Uchida, Shigeo - **23D**-10346, 10347
Unz, Ronald - **24**-10358
Upadhyay, Himanshu - **38C**-10296, **41**-10452
Urban, Manfred - **71**-10088
Urland, Charles - **68C**-10233
Usui, Kazuya - **23C**-10061
Utsunomiya, Satoshi - **81**-10028

V

Vaidotas, Algirdas - **52C**-10416
Valenzano, Michael - **80**-10060
Vallance, Charles - **16**-10132
Van Der Sloot, H - **61**-10149, **75**-10312
Van Hoesen, Dirk - **26**-10574, **38F**-10248, **46**-10255
Van Soest, Gregory - **86**-10400
Vandergraaf, Tjalle - **52A**-10208
Vanderperre, Serge - **78**-10043
Vargas, Mario - **68B**-10430
Varona, Jose - **23A**-10098, 10136
Vaughan, Charles - **24**-10355
Velez, Leydi - **24**-10554
Venkataraman, Ram - **18**-10497, **38D**-10479
Verba, Sara - **46**-10240
Vermeul, Vince - **24**-10298, **52D**-10115
Vero, Thomas - **26**-10537
Vetsch, William - **64**-10368
Veyer, Catherine - **73**-10063
Vienna, John - **27**-10084, **42**-10204
Vieru, Gheorghe - **38C**-10373, **68F**-10333
Vijaykumar, N - **15**-10078
Villani, Marcel - **38D**-10375
Volkov, Viktor - **52A**-10388, **68D**-10407, **81**-10584
Volkovich, Anatoly - **52A**-10388,

68D-10407
Völzke, Holger - **07**-10012
Vora, Vishal - **60**-10162

W

Wachter, Joe - **44**-10465
Waggoner, Charles - **Waggoner**, Charles - **24**-10355, 10358; **72**-10177, **84**-10015
Wagner, Rick - **86**-10324
Wakui, Yoshito - **23C**-10179
Walcheski, Robert - **16**-10132
Wald-Hopkins, Mark - **34**-10460, **87**-10509
Wales, Patrick - **77**-10520
Walker, Paul - **38D**-10133
Walker, Randy - **80**-10064
Walnicki, Scott - **47**-10153
Walpole, Sue - **66**-10354
Walsh, Theresa M. - **46**-10255
Walter, Susan - **47**-10482
Walters, Colin - **16**-10092
Walton, John - **24**-10290, **57**-10454, **58**-10265
Wamsher, Rex - **16**-10132
Waples, Richard - **47**-10270
Ward, Andy - **17**-10419, **17**-10472
Watters, Dave - **32**-10231
Waugh, William (Jody) - **17**-10281, **32**-10424
Wavare, SM - **23A**-10211
Weatherburn, Dave - **45**-10033
Weaver, Gordon - **52A**-10420
Webb, Anthony - **22**-10239
Weber, Mike - **05**-10193
Weber, Stefan - **59**-10011
Wei, Wei - **72**-10177
Weisenburger, Siegfried - **73**-10089
Weishaupt, Martin - **73**-10089
Weismann, Joseph - **32**-10231
Wellman, Dawn - **27**-10587, **52D**-10150, **64**-10040, **64**-10159
Wells, Beric - **74**-10083
Wells, Michele - **23A**-10236
Welty, Brett - **38D**-10133, **46**-10240
Wengle, John - **57**-10470
West, Lori - **69**-10129
West, Michael - **80**-10227
Weyerman, Wade - **30**-10523
Whang, Jooho - **38C**-10071
White, Anne - **52E**-10336
Whitmore, David - **67**-10432
Whitney, Tyler - **85**-10274
Whitton, John - **85**-10390
Whitworth, Julia - **34**-10460, **80**-10283
Wiatzka, Gerd - **77**-10397
Widdop, Michael - **17**-10351, **47**-10352
Wiersma, Bruce - **64**-10368, 10440
Wilborn, Bill - **45**-10349
Wilcox, William - **85**-10492
Wilde, Justin - **19**-10434, 10436
Willaford, Dana - **33**-10533
Wille, Frank - **05**-10093, 10193; **63**-10090, **68F**-10187
Williams, Mark - **52D**-10115, 10289

Williams, Martin - **74**-10225
Williams, Michael - **23A**-10408
Williamson, Jack - **49**-10197, **52F**-10057
Williford, Nevada - **87**-10058
Wilson, Mark - **18**-10072
Wilson, Michele - **46**-10345
Wilson, Robert - **24**-10547, **60**-10170
Winters, Michael - **47**-10153
Wise, Michelle - **10**-10030
Witkowski, Ioana - **34**-10460
Wittreich, Curtis - **17**-10419
Witwer, Keith - **76**-10507
Wolfe, Clinton - **09**-10108
Woocay, Arturo - **24**-10290, **57**-10454, **58**-10265
Wood, Joe - **10**-10232
Wood, Susan - **09**-10108
Worrall, Andrew - **42**-10376
Wrapp, John - **07**-10280, **31**-10268, **38C**-10338
Wright, Judith - **67**-10494
Wu, Yan - **23C**-10179
Wurtz, Jeff - **65**-10337
Wymer, Raymond - **06**-10127
Wyse, Eric - **68A**-10171

X

Xia, Yunju - **81**-10264

Y

Yadav, Nitin - **23A**-10137
Yamada, Tsuyoshi - **38F**-10006
Yang, Guang - **23B**-10202
Yang, Haori - **38D**-10375
Yang, Yang-Hee - **38G**-10180
Yanghee, Yang - **38G**-10353, **52C**-10185
Yapuncich, Frederick - **80**-10060
Yim, Sung Paal - **38A**-10117, 10344
York, Trevor - **72**-10317
Younan, Nicolas - **72**-10177
Yucel, Vefa - **61**-10158

Z

Zapp, Philip - **43**-10367
Zarei, Maryam - **24**-10576
Zehbe, Carsten - **29**-10453
Zen'kovskaya, Maria - **23B**-10141
Zencker, Uwe - **05**-10093
Zhang, Ming - **42**-10182, **57**-10134
Zheleznov, Veniamin - **78**-10387
Zhong, Lirong - **52D**-10289, **64**-10040, 10159
Zhu, Hank - **38D**-10479
Zhu, Ming - **57**-10470
Zimmerman, Robert - **44**-10118
Zinkevich, Liubov - **22**-10398
Zuloaga, Pablo - **75**-10069

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Located on the lower level of the Phoenix Convention Center's West Building, the comprehensive technical exhibit showcases all aspects of products and services related to the nuclear waste industry. Areas of interest include protective clothing, remote/robotic handling, hazardous waste storage, transportation, diagnostic instrumentation, engineering design and construction, environmental laboratories, decontamination and decommissioning, and environmental remediation.

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Exhibit Hours

Sunday, March 7, 2010	5:00 PM – 8:00 PM	<i>(Opening Welcome Reception)</i>
Monday, March 8, 2010	9:30 AM – 6:00 PM	<i>(International Reception 4:30 pm – 6 pm)</i>
Tuesday, March 9, 2010	9:30 AM – 6:00 PM	<i>(Best of Arizona Reception 4:30 pm – 6 pm)</i>
Wednesday, March 10, 2010	9:30 AM – 1:30 PM	<i>(Luncheon sponsored by The Shaw Group and individual booth prize drawings 12:00 pm – 1:30 pm)</i>

Exhibitor List with Booth Number as of January 15, 2010

ABW Technologies, Inc. 424
AECOM 508
Aker Solutions E&C Ltd 619
Alaron Corporation 309
Alliance of Hazardous Materials Professionals 631
Alliant 629
AMEC Earth & Environmental 836
American Crane & Equipment Corporation 503
American DND, Inc. 233
American Radiation Services, Inc. 325
ANS/ Radwate Solutions/ Nuclear News 539
Applied Research Center at FIU 329

AREVA 301 SILVER SPONSOR

Ascendent LLC 605
ATL International, Inc. 1122
AttentionIT, Inc. 517

Babcock Services, Inc. 328
Barnhart Nuclear Services 230
Bartlett Services, Inc. 112
Brokk 223
Burns and Roe 529

Cabrera Services, Inc. 1023
Cast Transportation 421
Cavanagh Services Group, Inc. 717
CBI Polymers 232
CDM 409

Central Research Labs 534 BRONZE SPONSOR

Ceradyne, Inc. 423
CH2M HILL 615
Columbia Energy & Environmental Svcs, Inc. 331
Commodore Advanced Sciences, Inc. 502
Container Products Corporation 734
Container Technologies Industries LLC 537

Dade Moeller & Associates 602
Dekker, Ltd 609
Dewdrops 433
Diversified Metal Products, Inc. 611
Diversified Technologies Services, Inc. 837
DW James Consulting, LLC 131
DZ Atlantic 411

E.H. Wachs 533
Eberline Services, Inc. 405
ECC (Environmental Chemical Corporation) 607
ENERCON 522
EnergySolutions 701
Environmental Dimensions, Inc. (EDi) 828
Environmental Management Services, Inc. 521
Environmental Rail Solutions, Inc. 834

Fluor Corporation 929 GOLD SPONSOR

Frham Safety Products, Inc. 330

Garlock Helicoflex 739
GEL Laboratories, LLC 706
General Plastics Manufacturing Company 528
Getinge-La Calhène 509
Golder Associates, Inc. 714
GoldSim Technology Group, LLC 708
Greenfield Logistics 403

Hot Cell Services Corporation 603

I.C.E. Service Group, Inc. 1019
IAEA Careers - Argonne National Lab 504
IBC Advanced Technologies, Inc. 337
ICx Radiation 731
IMPACT Services, Inc. 315
International Isotopes, Inc. 229
International Nuclear Services 814
InterTest, Inc. 938

Joseph Oat Corporation 408

Kelly Government Solutions 1031
Korea Hydro and Nuclear Power Co., Ltd 130

Longenecker & Associates, Inc. 710

MACTEC 321
Major Tool & Machine Inc. 236
Mandall BarrierWorks/ArmorWorks 332
Mega-Tech Services, LLC 1015

MHF Services 900 BRONZE SPONSOR

Microfiltrex - a div. of Porvair Filtration Group 633
Mid Columbia Engineering Inc. 835
Millennium Services, Inc. 519
Mobile Characterization Services, LLC 1035
MSE Technology Applications, Inc. 934

National Museum of Nuclear Science 839

National Nuclear Laboratory (UK) 200 GOLD SPONSOR

Navarro Research and Engineering, Inc. 419
Netzsch Instruments North America, LLC 610
North Wind, Inc. 628
Northrop Grumman 428
Nuclear Engineering International 436
Nuclear Filter Technology 410
Nuclear Plant Journal 606
NuclearStreet.com / Radium Inc. 429
NUCON International, Inc. 712
Nukeworker.com 505

Oak Ridge National Laboratory 432
ODIM Numet Ltd. 619
Off-Site Recovery Project at LANL 617
ORTEC 604

PacTec, Inc. 720 BRONZE SPONSOR

Paducah Remediation Services, LLC 231
Pajarito Scientific Corporation 538
PaR Systems, Inc. 623

Parsons 501 GOLD SPONSOR

Pentek, Inc. 401

Perma-Fix Environmental Services, Inc. 723
Petersen, Inc. 829
Piercan USA, Inc. 311
Premier Technology, Inc. 637
Project Time & Cost, Inc. 632

Quality Inspection Services, Inc. 608

R&R Trucking 1027
R.W. Wiesener, Inc. 507
Radiation Safety & Control Services, Inc. 738
Reef Industries, Inc. 415
River Technologies, LLC 122
RJR Engineering, PC 735
Robatel Technologies LLC 523

S.A.Technology 532
S.M. Stoller Corporation 515
Safety & Ecology Corporation – SEC 1011
Science Applications International Corp. (SAIC) 518

The Shaw Group 614 SILVER SPONSOR

Siempelkamp Nuclear Services, Inc. 120
SM&A 128
Spectra Tech, Inc. 506
Stäubli Corporation 535
Strata – G 530
Strategic Packaging Systems, LLC 935

Teledyne Brown Engineering 724
TestAmerica, Inc. 500
Tetra Tech, Inc. 622
THOR Treatment Technologies 1034
Tidewater-ChesNuc, Inc. 729
TLI Freight Services, LLC Truck D
TransModal Logistics, Ltd 935

UltraTech International, Inc. 525
Underwater Construction Corporation 718
Underwater Engineering Services, Inc. 417
UniTech Services Group, Inc. 711

URS 1001 GOLD SPONSOR

US DOE - Waste Isolation Pilot Plant (WIPP) 1029
US DOE NV Site Office 728
US DOE Office of Legacy Management 716
US Ecology 702

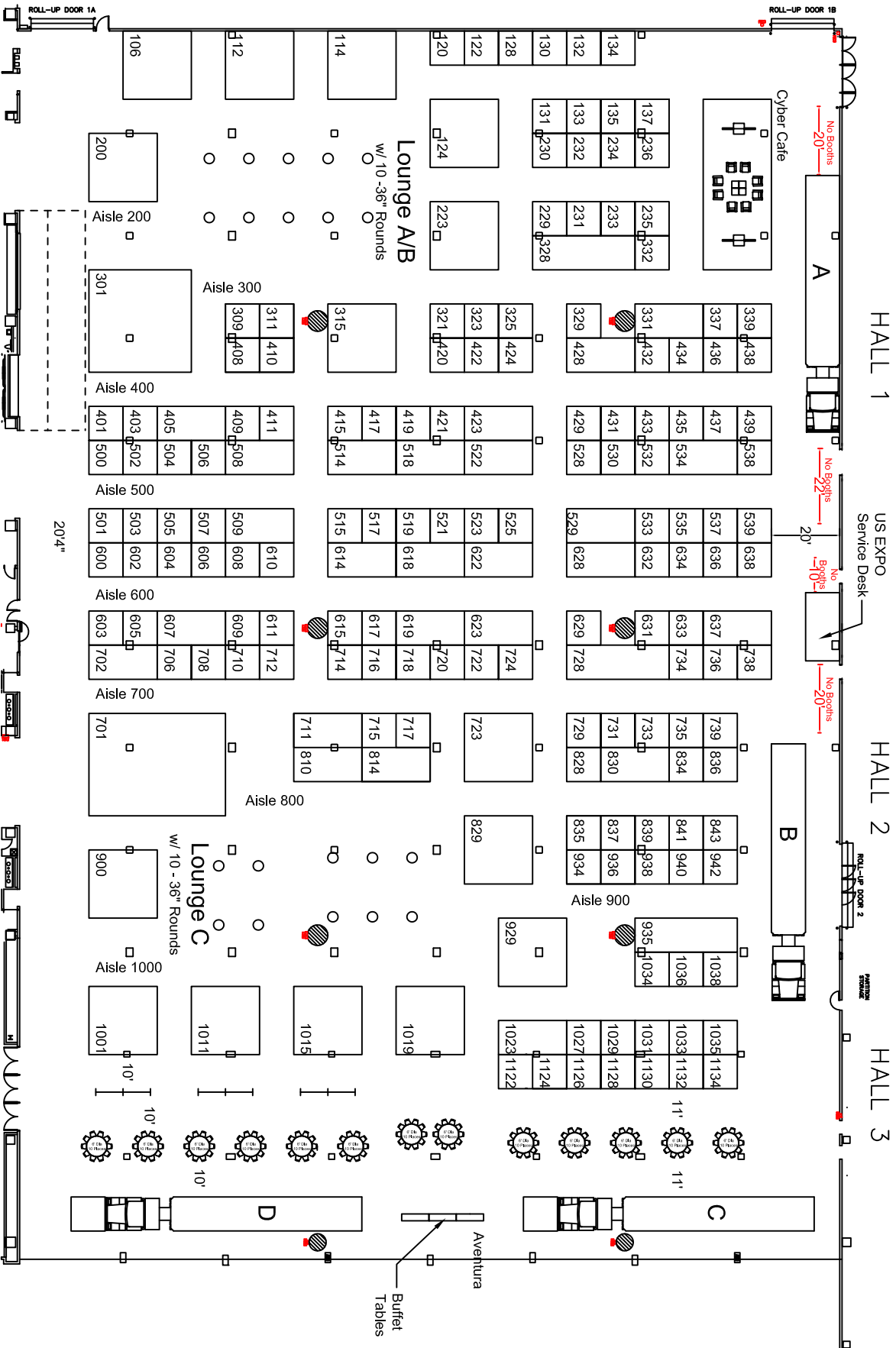
Visionary Solutions, LLC Truck B
Vista Engineering Technologies LLC 715
VJ Technologies, Inc. 1036

Wagstaff Applied Technologies 936
Waste Control Specialists 514
Westerman Nuclear 431
Westinghouse Electric Company 618
Weston Solutions, Inc. 722
Wheelift, A Doerfer Companies Technology 600
WMG, Inc. 810
WorleyParson Polestar 830

WM2010 PHOENIX

March 7-10, 2010

Phoenix Convention Center West Building
Halls 1, 2 and 3



Exhibitors Listed by Booth Number

112 Bartlett Services, Inc.
120 Siempelkamp Nuclear Services, Inc.
122 River Technologies, LLC
128 SM&A
130 Korea Hydro and Nuclear Power Co., Ltd
131 DW James Consulting, LLC

200 National Nuclear Laboratory (UK)
223 Brokk
229 International Isotopes, Inc.
230 Barnhart Nuclear Services
231 Paducah Remediation Services, LLC
232 CBI Polymers
233 American DND, Inc.
236 Major Tool & Machine, Inc.

301 AREVA
309 Alaron Corporation
311 Piercan USA, Inc.
315 IMPACT Services, Inc.
321 MACTEC
325 American Radiation Services, Inc.
328 Babcock Services, Inc.
329 Applied Research Center at FIU
330 Frham Safety Products, Inc.
331 Columbia Energy & Environmental Svcs
332 Mandall BarrierWorks/ArmorWorks
337 IBC Advanced Technologies, Inc.

401 Pentek, Inc.
403 Greenfield Logistics
405 Eberline Services, Inc.
408 Joseph Oat Corporation
409 CDM
410 Nuclear Filter Technology
411 DZ Atlantic
415 Reef Industries, Inc.
417 Underwater Engineering Services, Inc.
419 Navarro Research and Engineering, Inc.
421 Cast Transportation
423 Ceradyne, Inc.
424 ABW Technologies, Inc.
428 Northrop Grumman
429 NuclearStreet.com / Radium Inc.
431 Westerman Nuclear
432 Oak Ridge National Laboratory
433 Dewdrops
436 Nuclear Engineering International

500 TestAmerica, Inc.
501 Parsons
502 Commodore Advanced Sciences, Inc.
503 American Crane & Equipment Corp

504 IAEA Careers - Argonne National Lab
505 Nukeworker.com
506 Spectra Tech, Inc.
507 R.W. Wiesener, Inc.
508 AECOM
509 Getinge-La Calhène
514 Waste Control Specialists
515 S.M. Stoller Corporation
517 AttentionIT, Inc.
518 Science Applications International Corp.
519 Millennium Services, Inc.
521 Environmental Management Services
522 ENERCON
523 Robatel Technologies, LLC
525 UltraTech International, Inc.
528 General Plastics Manufacturing Company
529 Burns and Roe
530 Strata-G
532 S.A. Technology
533 E.H. Wachs
534 Central Research Laboratories
535 Stäubli Corporation
537 Container Technologies Industries LLC
538 Pajarito Scientific Corporation
539 ANS/Radwaste Solutions/Nuclear News

600 Wheelift, A Doerfer Co. Technology
602 Dade Moeller & Associates
603 Hot Cell Services Corporation
604 ORTEC
605 Ascendent LLC
606 Nuclear Plant Journal
607 ECC
608 Quality Inspection Services, Inc.
609 Dekker, Ltd
610 Netzsch Instruments North America, LLC
611 Diversified Metal Products, Inc.
614 The Shaw Group
615 CH2M HILL
617 Off-Site Recovery Project at LANL
618 Westinghouse Electric Company
619 Aker Solutions E&C Ltd
619 ODIM Numet Ltd.
622 Tetra Tech, Inc.
623 PaR Systems, Inc.
628 North Wind, Inc.
629 Alliant
631 Alliance of Hazardous Materials Pros
632 Project Time & Cost, Inc.
633 Microfiltrex - a div. of Porvair Filtration
637 Premier Technology, Inc.

701 EnergySolutions
702 US Ecology
706 GEL Laboratories, LLC
708 GoldSim Technology Group, LLC
710 Longenecker & Associates, Inc.
711 UniTech Services Group, Inc.
712 NUCON International, Inc.
714 Golder Associates, Inc.
715 Vista Engineering Technologies LLC
716 US DOE Office of Legacy Management
717 Cavanagh Services Group, Inc.
718 Underwater Construction Corporation
720 PacTec, Inc.
722 Weston Solutions, Inc.
723 Perma-Fix Environmental Services, Inc.
724 Teledyne Brown Engineering
728 US DOE NV Site Office
729 Tidewater-ChesNuc, Inc.
731 ICx Radiation
734 Container Products Corporation
735 RJR Engineering, PC
738 Radiation Safety & Control Services, Inc.
739 Garlock Helicoflex

810 WMG, Inc.
814 International Nuclear Services
828 Environmental Dimensions, inc. (EDi)
829 Petersen, Inc.
830 WorleyParson Polestar
834 Environmental Rail Solutions, Inc.
835 Mid Columbia Engineering Inc.
836 AMEC Earth & Environmental
837 Diversified Technologies Services, Inc.
839 National Museum of Nuclear Science

900 MHF Services
929 Fluor Corporation
934 MSE Technology Applications, Inc.
935 Strategic Packaging Systems, LLC
935 TransModal Logistics, Ltd
936 Wagstaff Applied Technologies
938 InterTest, Inc.

1001 URS – Washington Division
1011 Safety & Ecology Corporation - SEC
1015 Mega-Tech Services, LLC
1019 I.C.E. Service Group, Inc.
1023 Cabrera Services, Inc.
1027 R&R Trucking
1029 US DOE - Waste Isolation Pilot Plant
1031 Kelly Government Solutions
1034 THOR Treatment Technologies
1035 Mobile Characterization Services, LLC
1036 VJ Technologies, Inc.
1122 ATL International, Inc.

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Receptions

Sunday, March 7, 2010 – 5 to 8 pm
Welcome Reception

Monday, March 8, 2010 – 4:30 to 6 pm
International Welcome Reception

Tuesday, March 9, 2010 – 4:30 to 6 pm
Best of Arizona Reception

Refreshment Breaks

Monday, March 8 and Tuesday, March 9
9:30 am – 10 am and 2:30 to 3 pm

Lunch

Wednesday, March 10, 2010 – 12 to 1:30 pm

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Email: william.hook@aecom.com
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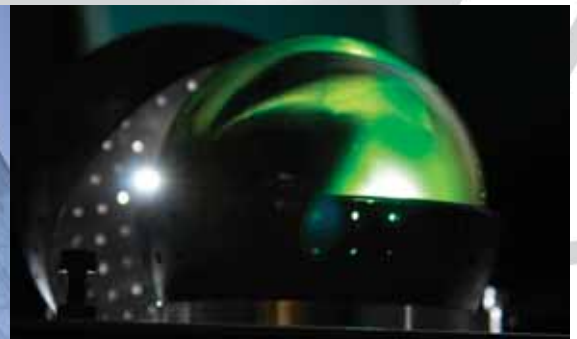
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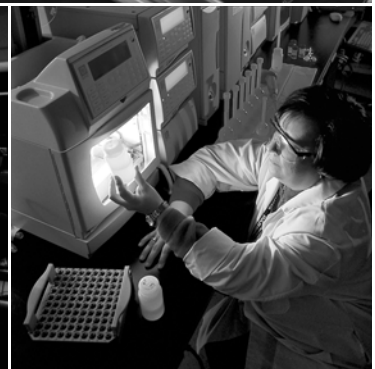
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US DOE - Waste Isolation Pilot Plant (WIPP)

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US DOE NV Site Office

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The US Department of Energy, National Nuclear Security Administration Nevada Site Office Environmental Management Program is responsible for addressing contamination from historic nuclear testing in Nevada, disposing low-level and mixed low-level radioactive waste from approved generators, and conducting environmental protection and compliance activities at the Nevada Test Site.

US DOE Office of Legacy Management

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Waste Control Specialists

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Westinghouse Electric Company offers a wide range of nuclear plant products and services to utilities throughout the world, including fuel, spent fuel management, service and maintenance, instrumentation and control, and advanced nuclear plant designs. Nearly 50 percent of the nuclear power plants in operation worldwide, and nearly 60 percent in the United States, are based on Westinghouse technology. Worldwide, the more than 9,000 employees of Westinghouse Electric Company continue to pioneer value-added engineering and services creating success for our customers in their increasingly demanding markets. The selection of Westinghouse to supply four AP1000 nuclear power plants in China is the most recent in a series of positive announcements. The AP1000 has also been identified as the technology of choice for no less than 12 new projected plants in the United States.

Weston Solutions, Inc.

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Weston Solutions (WESTON) delivers environmental engineering solutions to industry and government worldwide - site remediation, redevelopment, and management and compliance. With a focus on TRU waste, low-level and mixed waste operations, compliance, and high hazard remediation, WESTON and its affiliates implement hazardous and radiological waste operations throughout the US.

Wheelift, A Doerfer Companies Technology

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Wheelift (A Doerfer Companies Technology) manufactures extremely heavy load wheeled transporters that offer major improvements over the trailer and crawler systems currently used in both horizontal and vertical ISFSI stores. Wheelift's self-loading, self-propelled, all-directional-travel transporters allow much denser storage in an ISFSI. Maneuvering room is dramatically reduced and safety improved.

WMG, Inc.

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A professional nuclear engineering services and software provider to both government and commercial nuclear clients. WMG's proven expertise has been demonstrated in such areas as Major Component Disposition (e.g., Reactor Pressure Vessels and Heads, Steam Generators and Pressurizers), D&D project management and support services (e.g., Shoreham, Big Rock Point, Humboldt Bay, West Valley and SRS), Irradiated Hardware and Spent Fuel Pool Services (e.g., radwaste/material characterization, transport, packaging plans and disposal).

WorleyParson Polestar

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WorleyParson Polestar has provided remediation engineering, nuclear decommissioning, emergency preparedness, nuclear safety, and facility operations and management at numerous government energy facilities. We are a recognized leader within the US Department of Energy Complex in planning and execution of significant deactivation and decommissioning projects on schedule and within budget.

WM2011 Conference Planning

Planning for the next conference for February 27 – March 3, 2011 is well underway. If you would like to participate as a presenter, or would like to volunteer with WMS, here are some milestones for your planning:

June 14, 2010 **Call for Abstracts Issued**

WM2011 will solicit abstracts describing research, development and operational experience over the complete spectrum of nuclear waste activities. Proposed topics are categorized into general tracks that are reviewed by the WMS Program Advisory Committee Members and will be posted on www.wmsym.org and mailed in early June.

Sept. 13 & 14, 2010 **PAC Abstract Review Meeting**

PAC Members gather in Phoenix to review submitted abstracts and create the preliminary program for the WM2011 Conference. Once finalized, authors are notified and draft papers are written.

November 12, 2010 **Draft Papers Due**

Draft papers are submitted and reviewed in November by members of the PAC in their area of expertise. Authors are given several weeks for any requested updates or revisions and submit their final paper in January. The final program is updated and ready to be printed.

November 1, 2010 **Registration Opens**

Registration for the conference is open online at www.wmsym.org in early November.

Feb. 27 – March 3, 2011 **WM2011 Conference**

For more information on the WM2011 Conference, please visit:

www.wmsym.org

PAC Volunteers

If you are interested in learning more about the Program Advisory Committee, please contact Gary Benda at gbenda@wmarizona.org for more information.

WM2012 & WM2013 Conferences

The WM2012 Conference will be held February 26 – March 1, 2012 and the WM2013 Conference will be held February 24 – 28, 2013 at the Phoenix Convention Center, West Building. For more information, please visit www.wmsym.org.

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Held at the Raven Golf Club at South Mountain in Phoenix on Saturday, March 6, 2010; the Roy G. Post Foundation Golf Tournament provides funding for scholarships for the next generation of nuclear scientists and engineers. Please join us on Tuesday, March 9th at the Awards and Honors Luncheon to see the scholarship presentation for 2010.

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