

## Topic Listing - WM2011

Listed below are the proposed topics for the Waste Management 2011 Symposium (WM2011). The topics are grouped by the nine primary WM tracks plus a tenth track for unassigned abstracts. If you can identify the relevant Track but not a specific topic for your subject, assign it to the primary track number as a non-specified abstract (1, 2, 3, 4, etc.). If the primary tracks do not cover your topic or you are unsure of the correct topic assignment, designate it for Topic #10. The WM2011 Program Advisory Committee (PAC) Chair reassigns the abstracts in Topic #10 to the most appropriate topic listed in one of the other nine tracks.

Track 1	Crosscutting and General Policies, Programs and Technologies	(CPPT) Pg 2
Track 2	High-Level Radioactive Wastes, Spent Nuclear Fuel/Used Nuclear Fuel and Long-Lived Alpha/Transuranic Radioactive Waste	(HLW) Pg 7
Track 3	Low-Level, Intermediate Level, Mixed Waste, NORM, & TENORM	(LLW) Pg 11
Track 4	Nuclear Power Plant Waste & On-Site Spent Nuclear Fuel Management	(NPP) Pg 14
Track 5	Packaging and Transportation	(PAT) Pg 15
Track 6	Decontamination & Decommissioning	(D&D) Pg 17
Track 7	Environmental Remediation	(ER) Pg 18
Track 8	Public Communication, Participation, Education & Training	(CE&T) Pg 21
Track 9	Safety, Security, & Safeguards	(SS&S) Pg 24
Track 10	Miscellaneous: Unassigned & Late Abstracts, & Non-Paper Posters	(MISC) Pg 25

The topics listed below fall into the following two main categories:

- **Open** - Accepts abstracts from all authors and sources and does not have an “R” prefix.
- **Restricted** - For topics where only the designated Organizers solicit and pre-designate the abstracts or presenters. These topics are prefixed with an “R” and are not open to all authors. Unless specifically directed by a Topic Sponsor or an Organizer of that Topic, do not submit your abstract to a topic number with the prefix “R.”

Abstracts submitted for the topics listed below may result in four different types of sessions: Oral, Poster, Panel or Roundtable. Unless noted otherwise in the topic description or designated by the author, all the abstracts received are considered for an oral session, but may be reviewed and assigned to another type of session.

- Oral sessions require an accompanying paper and typically include a 20 minute PowerPoint presentation with five additional minutes allotted for questions and answers for a total scheduled time of 25 minutes.
- Poster sessions require an accompanying paper, unless noted otherwise as in the Track 10 Posters, and typically include a large poster displayed for 3-1/2 hours during the session. The author **must be present** at the poster during two 30 minute periods, at the front and the end of the display period.
- Panel sessions may or may not require a paper and the presentations type and length are determined by the Organizers. The focus is to convey the latest information and promote discussion and debate among the panelists.
- Roundtable sessions may or may not require a paper and the presentations type and length are determined by the Organizers. The focus is to promote extensive discussion with the audience, and is a smaller audience than that for a panel session.

For clarification of WMS positions;

- **Track Co-Chair** – An experienced PAC member determined by PAC policies to co-manage a WM Track.
- **Topic Sponsor and Organizer** - A PAC member who sponsors a Topic. The Sponsor provides guidance and direction to assure compliance with all PAC Policies and Procedures and follows the Topic through session formation in September.
- **Topic Organizer** - A PAC or non-PAC member who receives prior approval of the appropriate Track Co-Chairs and/or PAC Chair to develop a Topic for WM and assist in session and technical program development..

When someone accepts the position as Organizer or Sponsor, that means that volunteer is agreeing to solicit abstracts, and hopefully, we at the WM Symposia will receive at least three abstracts in a paper topic as a result. Organizers and Sponsors should remind the author, when submitting their abstract on-line, to put the Organizer’s name if they were contacted as the solicitor and to submit their abstract by the Call of Abstracts deadline. WMS keeps records of solicited abstracts and recognize the most active Organizers.

For more information on any topic, contact either the relevant Topic Sponsor, Organizers, Track Co-Chairs listed below or:

Gary Benda, WM2011 PAC Chair, V: +1 (803) 345-2170, Email: [gbenda@wmarizona.org](mailto:gbenda@wmarizona.org)

Linda Lehman, WM2011 Deputy PAC Chair, V: +1 (612) 867-9725, Email: [LLehman@wmarizona.org](mailto:LLehman@wmarizona.org)

Acronyms approved for WM2011 abstracts, papers, posters and PowerPoint presentations are listed at the end of this document.

**1 – CROSSCUTTING AND GENERAL POLICIES, PROGRAMS AND TECHNOLOGIES (CPPT)**

Don Wood, GaeaTech Services (Co-Chair), V: +1 (509) 375-3243, Email: p53bhw@charter.net

Mark Matthews, Consultant (Co-Chair), V: +1 (512) 469-7693, Email: Texas9491@yahoo.com

John Mathieson, NDA (Co-Chair), V: +44 (1235) 825-606, Email: john.mathieson@nda.gov.uk

This Track includes overall crosscutting policies, programs and technologies including planning, development, integration, control, implementation, management issues and general topics. Similar topics that are not crosscutting and thus specific to a single waste type (e.g. HLW, SNF, LLW, etc.) or program (e.g. ER, D&D, etc.) should be submitted to the specific track for that waste type or program. Presentations of waste management programs and policies at the national, multi-national and international level are particularly encouraged. Other potential crosscutting or general topics include regulatory issues, legal aspects, modeling, permitting (licensing) and compliance activities, criteria and standards development, privatization issues, technology deployment, legislation, US Price-Anderson Act, Paris conventions, enforcement agency and state issues (including multiparty agreements), interface, security, other crosscutting issues that involve multiple waste types/ programs/technologies or general issues.

**1. - Crosscutting Policies, Programs and Technologies– Non-specified Abstracts****1.0 - Crosscutting Policies, Programs and Technologies – Posters****1.1 Student Posters: The Next Generation – Industry Leaders of Tomorrow**

This topic accepts abstracts on all subjects that the annual WMS addresses, but as a non-paper student poster session. The goal of the Topic is to expose the industry to the next generation of young professionals that will lead us in the future. Students will have the opportunity to discuss their work and career goals with professionals in the industry. Students are not required to submit a full paper to the conference, only the initial summary. The Topic will be judged separately from other poster sessions and awards for the best student posters will be conferred.

**Topic Sponsor and Organizer:**

Leonel E. Lagos, Florida International University - ARC, V: +1 (305) 348-1810, Email: Lagosl@fiu.edu

**Additional Organizers:**

Robert Berry, Foxfire Scientific Inc., V: +44 (161) 292-7990, Email: berry@foxfirescientific.com

Michelle Rehmann, HER Creative Solutions, V: +1 (970) 547-2143, Email: michelle\_rehmann@wmarizona.org

**1.2 Worldwide Perspectives of Radioactive Waste Management – Challenges and Solutions**

This topic accepts abstracts on a cross-section of views from national programs for long-term solutions to the management of radioactive waste (HLW, SNF, TRU waste, and LLW/ILW) from past, current, and future sources including GEN III and GEN IV nuclear power plants. Such solutions may include long-term storage, deep geological disposal, partitioning, transmutation, or maintaining status quo.

**Topic Sponsor and Organizer:**

John Mathieson, NDA, V: +44 (1235) 825-606, Email: john.mathieson@nda.gov.uk

**Additional Organizers:**

Mark Matthews, Consultant, V: +1 (512) 469-7693, Email: Texas9491@yahoo.com

Gerald Ouzounian, ANDRA, V: +33 (146) 118-196, Email: gerald.ouzounian@andra.fr

**1.3 Worldwide Waste Management Regulatory and Oversight Crosscutting Programs: An Update**

This topic accepts abstracts on new and/or updated crosscutting regulatory, oversight and guidance programs for the management and/or disposal of HLW, SNF, ILW, LLW, TRU and NORM/TENORM wastes from local and national regulatory authorities. While waste management and disposal programs are being initiated, in development, or in progress, the various authorities are concerned with developing or adapting programs and regulations to define acceptable impacts or provide input into the management and disposal programs. (Only regulatory programs and oversight programs that are crosscutting will be assigned to this topic since programs applicable to a particular Track will be referred to that Track.)

**Topic Sponsor and Organizer:**

Ray Clark, EPA, V: +1 (202) 343-9198, Email: clark.ray@epa.gov

**Additional Organizers:**

Christopher Timm, PECOS Mgmt Services, V: +1 (505) 323-8355, Email: ctimm@pecosmanagement.com

Malgorzata Sneve, Norwegian Radiation Protection Authority V:+1 47-6716-2500, Email: malgorzata.k.sneve@nrpa.no

#### **1.4 Performance Assessment of Geological Disposal Systems**

This topic accepts abstracts on the methods and analysis related to the safety, performance and/or risk assessment of geological disposal systems for HLW, SNF and TRU wastes that advance the state of the art in repository sciences. Complementary Topics 2.11 and 3.8 focus on site-specific Performance Assessment for HLW/SNF/TRU wastes and ILW/LLW respectively, but all 3 Topics will exchange abstracts and schedule their presentation time in developing the WM2011 Technical Program. Abstracts are solicited on scenario analysis including theoretical, analytical and numerical /computational studies. Advances in model development, model application and validation, parameter acquisition and evaluation techniques are welcome. Abstracts are invited on integrated processes, including hydrogeological, mechanical, thermal, chemical/biochemical, for performance and safety analyses. Submissions on both laboratory and in situ technologies, especially innovative methods and theories, for hydraulic conductivity, diffusion, sorption/de-sorption, and tracer tests are encouraged

##### **Topic Sponsor and Organizer:**

Chuck Vandergraaf, Providence College, Canada, V: +1 (204)-753-8402, Email: ttveiv@mts.net

##### **Additional Organizers:**

Andrew Martin, NAGRA, Switzerland, V: + 41-56-437-1320, Email: Andrew.Martin@nagra.ch

Ming Zhang, AIST, Japan, V: +81 (29)-861-3943, Email: m.zhang@aist.go.jp

Simon Kwong, NNL, UK, V: + 44 (0)1925 289-904, Email: simon.kwong@nnl.co.uk

#### **1.5 Crosscutting Filtration Systems in the Nuclear Industry**

This topic accepts abstracts on difficult applications, new developments, and solutions for liquid and gas filtration applications in radioactive systems. Filtration systems are ubiquitous within nuclear power stations, research activities involving radioactive materials, fuel production, D&D and waste management processes and facilities. Difficult filtration issues addressed in this topic include: innovative systems for liquid and air filtration, filtration performance under process upset conditions, and protection systems for fire and smoke. The Organizers will solicit abstracts on changes in codes or regulations, implementation of new methods and technologies, and progress made in elucidating root causes of filtration system failures in radioactive environments.

##### **Topic Sponsor and Organizer**

Charles Waggoner, Mississippi State Univ. V: +1(662)325-7601, Email: waggoner@icet.msstate.edu

##### **Additional Organizers:**

Dave Eaton, INEL, V: +1 (208) 526-7002, Email: dle@inel.gov

Chris Chadwick, Porvair Filtration, V: +44 (0)1489 864330, Email: chris.chadwick@porvairfiltration.com

Duane Adamson, SRNL, V: +1 (803)725-5307, Email: duane.adamson@srnl.doe.gov

#### **1.6 Project Management Improvements–Planning through Completion-Scope, Cost, & Schedule Control**

This topic accepts abstracts on the latest developments in project management systems and methods and their application to waste management projects. Subjects could include planning approaches to ensure that the scope is clear and achievable, cost estimates are complete and realistic, and schedules include time estimates for both the direct project activities and the administrative and regulatory activities required to allow project implementation. Abstracts that discuss the use of planning tools, such as Critical Path Method (CPM), and control tools, such as the Earned Value Management (EVM), will be encouraged. In addition, abstracts that discuss methods used for effective integrated planning across multiple sites and programs and the coordination/inclusion of the key participants required for success – client, workers, regulators, public, etc. will be encouraged.

##### **Topic Sponsor and Organizer:**

Christopher Timm, PECOS Management Services, V: +1 (505) 323-8355, Email: ctimm@pecosmanagement.com

##### **Additional Organizers:**

Sherry Keeney, PECOS Management Services, V: +1 (505) 323-8355 Email: skeeney@pecosmanagement.com

Neil Davis, WSRC, V: +1 (803) 202-0877, Email: neil.davis@srs.gov

Gerry Williams, ENERCON Services, V: +1 (724) 733-8711 x 34, Email: gwilliams@enercon.com

#### ***Restricted (R) Topics for Abstracts and Speakers Requested Solely by the Organizers***

##### **R1.1 Waste Management Symposium 2011 Plenary Session**

This topic of the plenary focuses on government and industry world leaders speaking on the pressing issues facing radioactive waste management in 2011 and beyond.

##### **Topic Sponsor and Organizer:**

Jim Gallagher, Gallagher Consulting, V: +1 (412) 374-9694, Email: leojj@aol.com

**Additional Organizers:**

James Voss, Terra Verde Group; V: +1 (520) 241-5398, Email: JamesVoss@wmarizona.org  
 Gary Benda, Cavanagh Services, V: +1 (803) 345-2170, Email: gbenda@wmarizona.org  
 Fred Sheil, Sellafield Ltd., V: +44 (19) 467-84813, Email: fred.e.sheil@sellafieldsites.com

**R1.2 Panel: Hot Topics in US DOE Environmental Management**

This topic focuses on Senior US DOE Managers speaking on the pressing issues facing US DOE sites.

**Topic Sponsor and Organizer:**

Gary Benda, Cavanagh Services, V: +1 (803) 345-2170, Email: gbenda@wmarizona.org

**Additional Organizers:**

Tim Harms, US DOE, V: +1 (202) 586-2134, Email: Timothy.Harms@em.doe.gov  
 Ed Helminski, Exchange Monitor Pub., V: +1 (202) 296-2814/Ext 102, Email:helminski@exchangemonitor.com

**R1.3 Panel: Worldwide Perspectives on Waste Management Issues**

This topic focuses on major challenges and potential solutions to the long-term management of radioactive waste. This Topic will consist of a panel of high-level individuals from around the world. After short opening presentations, a facilitator will lead an interactive discussion among the panel members.

**Topic Sponsor and Organizer:**

John Mathieson, NDA, V: +44 (12) 358-25606, Email: john.mathieson@nda.gov.uk

**Additional Organizers:**

Mark Matthews, Consultant, V: +1 (512) 469-7693, Email: Texas9491@yahoo.com  
 Christopher Timm, PECOS Mgmt Services, V: +1 (505) 323-8355, Email: ctimm@pecosmanagement.com

**R1.4 Panel: European Featured Site: Sellafield: Accomplishments and Challenges from Past Practices and for Current and Future Missions /with a Comparison to DOE Sites**

This topic focuses on the Sellafield site in Cumbria in the north west of England. The site is a large, complex nuclear chemical facility that has supported the UK's nuclear power program since the 1940s. Current operations at Sellafield include processing of fuels removed from nuclear power stations; Mixed Oxide (MOX) fuel fabrication; storage of nuclear materials and radioactive wastes; remediation and D&D of legacy sites. This mission is being carried out under contract to the Nuclear Decommissioning Authority (NDA) by Sellafield Ltd. The NDA also has a cooperation agreement with USDOE to share experience to mutual benefit. This panel will have participants from Sellafield Ltd, NMP the NDA, West Cumbria Vision and US DOE. The goal of the panel will be to share management and technical challenges encountered and how they were overcome working together and building off the lessons learned by DOE tackling similar sites as Sellafield.

**Topic Sponsor and Organizer:**

Angie Jones, AMEC, V: +1 (865) 671-6774 x259, Email: angie.jones@amec.com

**Additional Organizers**

Fred Sheil, Sellafield Ltd., V: +44 (19) 467-84813, Email: fred.e.sheil@sellafieldsites.com  
 John Mathieson, NDA, V: +44 (12) 358-25606, Email: john.mathieson@nda.gov.uk  
 Kurt Gerdes, DOE, V: +1 (303)-903-7289, Email: Kurt.Gerdes@em.doe.gov

**R1.5 Panel – US Featured Site: DOE- Savannah River - Accomplishments and Challenges from Past Practices and for Current and Future Missions Infrastructure and Services**

This topic focuses on the Savannah River Site of the USDOE located in Aiken, SC. It will showcase recent progress and planned efforts in radioactive waste management, waste disposition, environmental remediation, D&D and water stewardship.

**Topic Sponsor and Organizer**

Ned Bibler, SRNL, V: +1 (803)-725-2313, Email: ned.bibler@srnl.doe.gov

**Additional Organizers:**

Dawn Haygood, V: +1 (803) 952-7395, Email: dawn.haygood@srs.gov  
 Welford (Sonny) Goldston, WSRC, V: +1 (803) 557-6314, Email: sonny.goldston@srs.gov

**R1.6 Panel: Emerging Issues with US DOE Prime Contractors**

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 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.

**Topic Sponsor and Organizer:**

Judith D. Connell, Fluor Hanford, V: +1 (509) 376-6808, Email: Judith\_Connell@rl.gov

**Additional Organizer:**

Peter Knollmeyer, Fluor Hanford, V: +1 (509) 528-3165, Email: Peter.Knollmeyer@fluor.com

**R1.7 Panel: US DOE Procurement and Contracting Opportunities**

This topic focuses on US DOE procurement and contracting activities. The panel will be open to all WM2011 participants, including Exhibitors.

**Topic Sponsor and Organizer:**

Cathy Hickey, URS, V: +1 (865) 425-7116, Email: cathy.hickey@wsms.com

**Additional Organizer:**

John Longenecker, Longenecker & Associates, V: +1 (856) 792-6031, Email: jrl@longenecker-associates.com

**R1.8 Panel: US DOE Contractor's Procurement and Contracting Opportunities**

This topic focuses on US DOE Contractors procurement and contracting activities in the US Procurement and contracting officials. It complements Topic R1.7, which focuses on contracting directly with the DOE. The panel will be open to all WM2011 participants, including Exhibitors.

**Topic Sponsor and Organizer:**

Steve Houser, TN&A, V: +1 (210) 490-4865, Email: shouser@tnainc.com

**Additional Organizer:**

John Coffman, DeNuke, V: +1 (865) 387-2468, Email: jcoffman@denuke.com

Roger Merrick, E2 Consulting Engineers, Inc. V: +1303-232-9800, Email: roger.merrick@e2.com

**R1.9 Panel: Opportunities in the UK with the Nuclear Decommissioning Authority (NDA)**

This topic focuses 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.

**Topic Sponsor and Organizer:**

Fred Sheil, Sellafield Ltd., V: +44 (19) 467-84813, Email: fred.e.sheil@sellafieldsites.com

**Additional Organizer:**

Ron Gorham, NDA, V: +44 (12) (79)719-15766, Email: ron.gorham@nda.gov.uk

**R1.10 Panel: US DOE - Energy Facility Contractors Group's Knowledge Portal (EFCOG) Review**

This topic focuses on the various areas of EFCOG. EFCOG promotes excellence in all aspects of the operation, management, and integration of US 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 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 Working Groups (WGs) and critical updates. Working Group updates include: Project Management, Integrated Safety Management/Quality Assurance, Environmental, Safety and Health; Safety/Security Interface; Security (metrics), Peer Review Process, Energy Efficiency, and Infrastructure Management.

**Topic Sponsor and Organizer:**

John Longenecker, Longenecker & Associates, V: +1 (856) 792-6031, Email: jrl@longenecker-Associates.com

**Additional Organizer:**

Mark Frei, Longenecker & Assoc., V: +1 (301) 233-5983, Email: mwfrei@longenecker-associates.com

**R1.11: Federal Government Contract "Capture" Workshop**

This topic 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".

**Topic Sponsor and Organizer:**

Vik Mani, Mani Strategic Solutions, LLC, V: +1 (801) 209-8768, Email: vik@manistrategic.com

**R1.12 Panel: Developments in the American Recovery and Reinvestment Act (ARRA)**

This topic focuses on the ARRA lessons learned after two year of implementation. Perspectives from both government and industry officials will be given on funds distribution, contracting mechanisms, accomplishments and future activities. This topic 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").

**Topic Sponsor and Organizer**

Jim Janus, The Janis Group, Inc., V: +1 (505) 438-3080, Email: [JIMMYJ96@aol.com](mailto:JIMMYJ96@aol.com)

**Additional Organizer:**

Cathy Hickey, URS, V: +1 (865) 425-7116, Email: cathy.hickey@wsms.com

**R1.13 Lessons Learned from the American Recovery and Reinvestment Act (ARRA)**

This topic accepts abstracts on the complexities and lessons learned on integrating additional ARRA funds to safely implement opportunities to advance contaminated site clean-up efforts. ARRA funded work has had a significant positive effect on environmental remediation, D&D, and environmental management work. This topic accepts abstracts on the effect of additional ARRA funds to the assessment, cleanup and D&D of contaminated sites. The focus is

**Topic Sponsor and Organizer:**

John Kristofzski, CH2M Hill PRC, V: +1 (509) 373-4225, Email: John\_G\_Kristofzski@rl.gov

**Additional Organizers:**

John Mocknick, US DOE, V: +1 (202) 586-7709, Email: John.Mocknick@em.doe.gov

Joe Yanek, Fluor, V: +1 (864) 281-6282, Email: joe.yanek@fluor.com

**R1.14 Impacts of Updates to DOE's Radioactive Waste Management Order**

This topic accepts abstracts on the updates and impacts to DOE's radioactive waste management order, DOE O 435.1, which will be well along the way to being completed by March 2011. Topics could focus on the impetus for specific changes, the impacts of specific changes, overall processes leading to specific changes, and/or expected impacts for specific waste types or operations.

**Topic Sponsor and Organizer:**

Don Wood, GaeaTech Services, V: +1 (509) 375-3243, Email: p53bhw@charter.net

**Additional Organizer:**

Martin Letourneau, US DOE, V : +1 (301) 903-3532, Email : martin.letourneau@em.doe.gov

**R1.15 Roles and Challenges of DOE/NNSA Analytical Laboratories**

This topic accepts abstracts on the roles and challenges of DOE/NNSA analytical laboratories, Discussions will include: Program overviews, capability, and current activities from each DOE/NNSA laboratory including site issues, lab issues, where your lab fits into the organizational structure, successes, problems, lessons learned, how we can help each other, etc

**Topic Sponsor and Organizer:**

Don Wood, GaeaTech Services, V: +1 (509) 375-3243, Email: p53bhw@charter.net

**Additional Organizers:**

Jou G. Hwang, PhD, ATL International, V: +1 (509) 375-4200, Email: Hwang, Jou-Guang

**R1.16 Worldwide Regulatory Oversight of Radioactive Legacy Sites**

This topic accepts abstracts on the regulatory supervision of legacy sites including uranium legacy and describing regulatory challenges related to the supervision of D&D, rehabilitation or remediation of legacy sites. Practical solutions are sought on how to regulate situations and activities falling outside of the existing regulatory regime.

**Topic Sponsor and Organizer:**

Ray Clark, EPA, V: +1 (202) 343-9198, Email: clark.ray@epa.gov

**Additional Organizers**

Malgorzata Sneve, Norwegian Radiation Protection Authority V:+1 47-6716-2500, Email: malgorzata.k.sneve@nrpa.no  
Larry Camper, NRC, V: +1 (301) 415-6673, Email: lwc@nrc.gov

**2 - HIGH-LEVEL RADIOACTIVE WASTES (HLW), SPENT/USED NUCLEAR FUEL (SNF/UNF), AND LONG-LIVED ALPHA/TRANSURANIC RADIOACTIVE WASTE (TRU)**

Harry Babad, Consultant (Co-Chair), V: +1- (509) 375-0328, Email: hbabad@owt.com

Tom Brouns, PNNL (Co-Chair), V: +1- (509) 372-6265, Email: tom.brouns@pnl.gov

Roger Nelson, DOE-CBFO (Co-Chair), V: +1- (575) 234-7213; Email: roger.nelson@wipp.ws

Terri Fellingner, WSRC, (Co-Chair), V: +1- (803) 725-7745, Email: terri.fellinger@srs.gov

This Track covers all long-lived alpha/TRU waste, SNF, UNF and HLW operations from generation and storage through characterization, treatment and disposal. It also covers associated technology development and deployment; recycling/reprocessing strategies and technologies; periodic progress updates oriented to specific achievements in waste removal and disposal activities, and overlapping issues including: interim and final disposition strategies for SNF/UNF and HLW, associated environmental permitting and monitoring of stored waste, waste processing alternatives, waste form, disposal and operating facility performance and risk assessment, and the impacts of directly associated regulations and standards. (Utility SNF/UNF management and/or on-site storage at Nuclear Power Plants (NPPs) abstracts are addressed in Track 4. Greater-than-Class-C LLW, NORM, TENORM, Uranium, Thorium and byproduct material are addressed in Track 3.)

**2 HLW, SNF/UNF and Long-lived Alpha/TRU Waste – Non-Specified Abstracts****2.0 HLW, SNF/UNF and Long-lived Alpha/TRU Waste – Posters****2.1 HLW, SNF/UNF and Long-lived Alpha/TRU Programs and Policies**

This topic accepts abstracts on the disposition of spent/used nuclear fuel (SNF/UNF), HLW, TRU waste, and other long-lived non-LLW that cut across two or more of the major Track 2 categories of storage and retrieval, treatment, and disposal. Abstracts may include major programs or policy initiatives that have broad impact on the future direction of waste generation and/or disposition (storage, treatment, and disposal). Abstracts may include characterization, waste acceptance criteria, technology development and/or demonstration, operational lessons learned, and policy and regulations, as appropriate to their focus.

**Topic Sponsor and Organizer:**

Harry Babad, Consultant, V: +1 (509) 375-0328, Email: hbabad@owt.com

**Additional Organizer:**

Sal Golub, DOE, V: +1 (301) 903-1636, Email: sal.golub@hq.doe.gov

Lisa Burns, Shaw Group, V: +1 (513) 782-4686, Email: lisa.burns@shawgrp.com

**Storage and Retrieval of HLW, SNF/UNF and Long-lived Alpha/TRU**

This category covers the storage of highly radioactive wastes including HLW, TRU, SNF, UNF and other long-lived materials in storage areas or vessels prior to retrieval for processing and treatment, and in interim storage areas prior to transport for disposal. Topic Abstracts for the storage and retrieval category may cover areas of waste characterization, waste acceptance criteria, monitoring and analysis of the integrity of storage systems, waste mixing, mobilization, retrieval, consolidation of wastes, and storage of said wastes prior to transport for further processing or disposal. This category also covers the retrieval of wastes from storage areas. The storage and retrieval category is divided into key topics based on waste type.

**2.2 Storage and Retrieval of Spent/Used Nuclear Fuel**

This topic accepts abstracts on the retrieval, conditioning, waste acceptance criteria, and storage of spent nuclear fuel (SNF)/used nuclear fuel (UNF) prior to transport for processing/treatment or final disposal. However, storage of commercial SPF/UNF at utility sites is covered in Track 4 and SPF/UNF transport is covered in Track 5.

**Topic Sponsor and Organizer:**

Leif Eriksson, Consultant, V: +1 (407) 647-1806, Email: nukewastedisp@gmail.com

**Additional Organizers:**

Terri Fellingner, SRNL, V: +1 (803)-208-6471, Email: terri.fellinger@srnl.doe.gov

Ed Ketusky, SRR, V: +1 (803)-952-4425, Email: edward.ketusky@srs.gov

**2.3 Storage and Retrieval of HLW**

This topic accepts abstracts on the storage and retrieval of liquid and solid HLW in tanks or other vessels prior to processing and treatment, including characterization, waste acceptance criteria, and monitoring of the vessels and wastes. The topic also includes interim storage of treated (e.g., immobilized) HLW prior to transport for disposal

**Topic Sponsor and Organizer:**

Tom Brouns, PNNL, V: +1 (509) 372-6265, Email: tom.brouns@pnl.gov

**Additional Organizer:**

Ryan Dodd, CH2M HILL, V: +1 (509)373-9086, Email: radodd@wch-rcc.com

**2.4 Storage and Retrieval of TRU**

This topic accepts abstracts on the retrieval, storage, characterization, waste acceptance criteria, and consolidation of transuranic wastes, including storage prior to transport for further processing, packaging, or disposal.

**Topic Sponsor and Organizer:**

Roger Nelson, DOE, V: +1 (575) 234-7213, Email: roger.nelson@wipp.ws

**Additional Organizers:**

Betty Humphrey, Weston Solutions, V: +1 (505) 837-6528, Email: betty.humphrey@westonsolutions.com

Terry Wickland, Nuclear Filter Technology, V: +1 (303) 384-9785, Email: terry@nucfil.com

**2.5 Storage and Retrieval of Other Non-LLW Long-Lived Radioactive Materials**

This topic accepts abstracts on the retrieval, storage, characterization, waste acceptance criteria, and consolidation of other long-lived non-LLW wastes and materials prior to transport for processing, packaging, or disposal.

**Topic Sponsor and Organizer:**

Leif Eriksson, Consultant, V: +1 (407) 647-1806, Email: nukewastedisp@gmail.com

**2.6 Storage and Retrieval of Orphan Fuels**

This topic accepts abstracts on recovery, treatment, waste acceptance criteria, and packaging of orphan fuels, typically comprised of small volumes from both military and civil programs. Abstracts on irradiated and unirradiated metal or oxide fuel, including damaged and carbide materials are solicited.

**Topic Sponsor and Organizer:**

Keith Miller, National Nuclear Laboratory, V:+ 44- (0) 1925-289960, Email: keith.x.miller@nnl.co.uk

**Treatment of HLW, SNF/UNF and Long-lived Alpha/TRU**

This category covers the treatment of SNF/UNF, HLW, TRU waste, and other Long-lived Alpha Wastes enabling recycling of nuclear materials for beneficial use, reducing the toxicity or hazard of nuclear materials, and/or producing waste forms particularly suitable for safe disposal. Abstracts for treatment may cover areas of characterization, in-process monitoring, pipeline transport, process development, scale-up, testing, modeling, design, operational lessons learned and waste form performance. The treatment category is divided into the following key topics based on general processing steps used in the nuclear fuel cycle:

**2.7 Reprocessing/Recycling and Separation of HLW, SNF/UNF and Long-lived Alpha/TRU**

This topic accepts abstracts on both reprocessing/recycling of SNF/UNF, as well as the pretreatment of stored liquid and solid HLW from previous reprocessing operations. Separation includes dissolution and/or leaching of SNF/UNF and HLW solids, filtration, ion exchange, solvent extraction, evaporation, or other separation operations required to produce process streams suitable for subsequent recycle for reuse, immobilization into suitable waste forms, or transformation into less hazardous wastes.

**Topic Sponsor and Organizer:**

Bernard Vigreux, SFEN, V: +33-1-5358-3210, Email: Bernard.vigreux@wanadoo.fr

**Additional Organizers:**

Sal Golub, US DOE, V: +1 (301) 903-1636, Email: sal.golub@hq.doe.gov  
 Harry Harmon, PNNL, V: +1 (803) 208-3287, Email: hdharmon@bellsouth.net

**2.8 Stabilization/Immobilization of HLW, SNF/UNF and Long-lived Alpha/TRU**

This topic accepts abstracts on the immobilization of process wastes into suitable waste forms for storage and/or disposal. Stabilization includes processes such as vitrification and grouting, as well as other processes producing waste forms for specific wastes from HLW/SNF/UNF processing.

**Topic Sponsor and Organizer:**

Ned Bibler, SRNL, V: +1 (803) 725-2313, Email: ned.bibler@srnl.doe.gov

**Additional Organizers:**

Christian Ladirat, CEA, V: +33-466-79-63-81, Email: Christian.ladirat@cea.fr  
 Michael Ojovan, Univ. of Sheffield, V: +44-114-222-6033, Email: mojovan@sheffield.ac.uk

**2.9 Transmutation and Other Topics Involving HLW, SNF/UNF and Long-lived Alpha/TRU**

This topic accepts abstracts on the processes used to reduce the long-term hazard of radioactive constituents from reprocessing/recycling through transmutation or other methods.

**Topic Sponsor and Organizer:**

Roger Nelson, DOE, V: +1 (575) 234-7213, Email: roger.nelson@wipp.ws

**Additional Organizers:**

Sal Golub, DOE, V: +1 (301)-903-1636, Email: sal.golub@hq.doe.gov

**Disposal and Closure of HLW, SNF/UNF and Long-lived Alpha/TRU**

This category covers the safe burial or placement of SNF/UNF, HLW, TRU waste, and Long-lived Alpha in a subsurface environment. Although disposal by definition means that no retrieval is intended, a common global notion is that some of the disposed waste categories, preferably, should be recoverable, if needed. As follows, for the time being, recoverability and retrievability are integral topics within the disposal component of Track 2. Disposal-system performance, waste acceptance criteria, and risk assessments are integral components of the disposal concepts covered in Track 2, as are the closure of highly radioactive waste storage tanks and ancillary equipment. Albeit both packaging/transportation and safety/safeguards are integral to disposal, they are currently addressed in Tracks 5 and 9, respectively. For the sole purpose of Track 2, the following arbitrary separation of disposal concepts was made based on the deepest location of the “disposed waste” relative to the ground surface:

**2.10 Near-Surface Disposal of HLW, SNF/UNF and Long-lived Alpha/TRU**

This topic accepts abstracts on Near-Surface Disposal of HLW, SNF/UNF and Long-lived Alpha/TRU. This is the term used for emplaced waste located above, on, or no more than 100 meters below the ground surface.

**Topic Sponsor and Organizer:**

Leif Eriksson, Consultant, V: +1 (407) 647-1806, Email: nukewastedisp@gmail.com

**Additional Organizers:****2.11 Deep Disposal of HLW, SNF/UNF and Long-lived Alpha/TRU**

This topic accepts abstracts on Deep Disposal of HLW, SNF/UNF and Long-lived Alpha/TRU. This is the term used when the emplaced waste, or a major portion thereof, is located more than 100 meters below the ground surface.

**Topic Sponsor and Organizer:**

Roger Nelson, DOE-CBFO, V: +1- (575) 234-7213; Email: roger.nelson@wipp.ws

**Additional Organizers:**

Gerald Ouzounian, ANDRA, V: +33-146-11-8196, Email: gerald.ouzounian@andra.fr  
 Paul Dickman, NRC, V: +1 (703)-242-2264, Email: pdickman@gmail.com

**2.12 Closure of HLW, SNF/UNF and Long-lived Alpha/TRU Facilities**

This topic accepts abstracts on the closure of HLW, SNF/UNF and Long-lived Alpha/TRU Facilities. This includes the final waste removal, characterization, waste acceptance criteria, stabilization, and closure of facilities such as waste tanks and ancillary equipment used in the processing or storage of HLW, SNF/UNF, TRU/ILW, US DOE tank closure process related

to its “waste incidental to reprocessing” process or the 3116 process developed between DOE and NRC and other Long-lived Alpha radioactive materials.

**Topic Sponsor and Organizer:**

Martin Letourneau, US DOE, V: +1 (301) 903-3532, Email: martin.letourneau@em.doe.gov

*Restricted (R) Topics for Abstracts and Speakers Requested Solely by the Organizers*

**R2.1 Panel: The Role of the DOE Office of Technology, Innovation & Development in Reducing Risk in HLW Management**

This topic focuses on the role of the DOE Office of Engineering and Technology in both a paper and follow on panel. Presentations will focus on reducing risks, stress the importance for structured assessments to address uncertainties to mitigate project management risks, briefly summarize findings and recommendations of these reviews, and the lessons learned for future External Technical Reviews. This topic is restricted to abstracts solicited by the Organizers.

**Topic Sponsor and Organizer:**

Kurt Gerdes, DOE, V: +1 (303) 903-7289, Email: Kurt.Gerdes@em.doe.gov

**Additional Organizer:**

John Schultz, DOE, V: +1 (301) 903-2422, Email john.shultz@em.doe.gov

**R2.2 Panel: International SNF/UNF Recycling — Status and Near Future Progress Assessment**

This topic focuses on Spent (used) Nuclear Fuel (SNF/UNF) recycling activities. The panel will discuss technical (flow sheet alternatives), institutional (regulatory and non-proliferation) as well as broader political issues associated with making a broader step forward to increasing the amount of cost effective spent fuel recycling capacity. It should be noted that recycling helps enable the expansion of nuclear power. The drivers for recycling include: 1) reduces reliance on fresh uranium, 2) addresses waste disposal confidence issues, 3) is economically viable, in the face of rising uranium prices, and 4) reduces the radiotoxicity and heat, reducing the complexity of repository disposal. This topic is restricted to panelists solicited by the Organizers.

**Topic Sponsor and Organizer:**

Harry Babad, Consultant, V: +1 (509) 375-0328, Email: hbabad@owt.com

**Additional Organizers:**

Mike Lawrence, PNNL, V: +1 (509) 372-6902, Email: michael.lawrence@pnl.gov

Martin Wheeler, EnergySolutions, V: +1 (509) 375-9877, Email: mwheeler@energysolutions.com

James Buelt, PNNL, V: +1(509) 375-2624, Email: james.buelt@pnl.gov

**R2.3 Panel: The Future of the US DOE Yucca Mountain Site and Discussion of the Alternatives**

This topic focuses on the current status of and the challenges facing the US national SNF/UNF and HLW disposal program in light of the new US Administration's policies and Congress' budget-driven slowdown of Yucca Mountain Project. Topics that will be presented at this panel include recent developments, challenges, and potential paths forward being proposed by the Administration, independent review panels, and industry. The panel will be comprised of invited experts in radioactive waste management and disposal

**Topic Sponsor and Organizer:**

Dorothy Davidson, AREVA, V: +1 (301) 841-1671, Email: dorothy.davidson@areva.com

**Additional Organizers:**

Robert Edmonds, AREVA, V: +1 (704) 805-2080, Email: robert.edmonds@areva.com

Leif Eriksson, Consultant, V: +1 (407) 647-1806, Email: nukewastedisp@gmail.com

**R2.4 Panel: International Deep Repository Progress**

This topic focuses on the progress of deep repository programs, worldwide. Notwithstanding the first deep geological repository for SNF/UNF and HLW in the USA was brought to a standstill in 2010, several other repository programs continue to make considerable progress that deserves to be recognized and used to advantage by interested parties. Panelists will be invited from national, multi-national, and international repository programs and organizations to report upon the current status and future plans as well as the perceived reasons underlying the success and the failure of components of their respective repository program. This panel will provide a forum for interested parties to present, exchange, and take advantage of, as appropriate, repository progress, challenges, concepts/designs and other lessons learned around the world, including site characterization, site selection, research and development, licensing, construction, operation, and public acceptance and participation.

**Sponsor and Organizer**

Leif Eriksson, Consultant, V: +1 (407) 647-1806, Email: nukewastedisp@gmail.com

**Additional Organizers**

Enrique Biurrun, DBE Technology, V: +49-5171-431523, Email: biurrun@dbe.de

Gerald Ouzounian, ANDRA, V: + 33-146-11-8196, Email: gerald.ouzounian@andra.fr

**R2.5 Panel: Progress by the US National Blue Ribbon Commission on America's Nuclear Future - What Have They Been Told, and Who Are They Listening Too?**

This topic focuses on the Blue Ribbon Commission which filed their charter with Congress the week before WM2010. The Commission will conduct a comprehensive review of policies for managing the back end of the nuclear fuel cycle, including all alternatives for the storage, processing, and disposal of civilian and defense used nuclear fuel and nuclear waste. The Commission will conduct an entire year of testimony and meetings prior to WM2011, and will be finalizing its 18-month interim report to the administration when this panel will be held. Invited panelists for R2.5 will include people and organizations who have presented before the Commission over their first year of deliberations.

**Topic Sponsor and Organizer:**

Roger Nelson, US DOE Carlsbad Field Office, V: +1 (575) 234-7213, email: roger.nelson@wipp.ws

**Additional Organizer:**

Dorothy Davidson, AREVA, V: +1 (301) 841-1671, Email: dorothy.davidson@areva.com

Andrew Orrell, Sandia, V: +1 (505) 284-0897, Email: sorrell@sandia.gov

**R2.6 Panel: Pre-Treatment Alternative Technologies for Treating Defense Reprocessing HLW**

This topic focuses on a high-level summary of technologies being developed by the DOE and contractors to advance tank HLW retrieval and processing. Four sites in the DOE complex contain tanks holding waste from past chemical reprocessing of irradiated uranium used in defense production. A \$12.2-billion Waste Treatment Plant complex is being built at the Hanford Site to vitrify (immobilize) the largest collection of tank waste. The Savannah River Site holds the second largest inventory of tank waste, and is processing some of it in the Defense Waste Processing Facility. The Idaho National Laboratory and the West Valley, New York site hold smaller amounts of tank waste. Other International sites also are looking for closure. Technologies are needed to complete waste retrieval and vitrification commitments, generate minimal amounts of secondary and tertiary wastes, and develop environmentally acceptable waste forms. Invited panelists for R2.6 will include people and organizations.

**Topic Sponsor**

Harry Babad, Consultant, V: +1 (509) 375-0328, Email: hbabad@owt.com

**Additional Organizer:**

Terry L. Sams, Washington River Protection Solutions, V:+1 (509)-376-4653,, Email: Terry\_L\_Sams@rl.gov

**3 - LOW-LEVEL WASTE (LLW), INTERMEDIATE LEVEL WASTE (ILW), MIXED WASTE (MW), BY PRODUCT MATERIAL, TENORM, NORM RESIDUES & DEPLETED URANIUM**

Colleen Owens, DeNuke (Co-Chair), V: +1 (303) 638-9283, Email: cowens@denuke.com

John Coffman, De Nuke (Co-Chair), V: +1 (865) 387-2468, Email: jcoffman@denuke.com

Gabriele Bandt, TÜV NORD Ensys (Co-Chair), V: +49 (511) 986-1551, Email: gbandt@tuev-nord.de

The LLW, ILW, MW (radioactive & hazardous), Naturally Occurring Radioactive Material (NORM) and Technologically Enhanced NORM (TENORM) Track encompasses: Operations from generation through treatment and disposal; Technology development, demonstration, and deployment; Overlapping issues including waste minimization, waste characterization and analysis, effluent monitoring, waste form and facility performance assessment, regulations and standards; and for all types of facilities from hospitals, accelerators, research reactors, government facilities, disposal sites, etc. This Track covers waste management of uranium or thorium ores as well as "Greater than Class C - LLW", byproducts or tailings, NORM residues and waste, and TENORM. This track also includes radioactive materials, articles and consumer products. (NPP operational waste is covered in Track 4. TRU and similar alpha waste is covered in Track 2.)

**3 LLW, ILW, MW, NORM and TENORM - Non-specified Abstracts****3.0 LLW, ILW, MW, NORM and TENORM - Posters**

### **3.1 Regulatory and Programmatic Issues and Solutions for LLW, ILW, MW, NORM and TENORM & Depleted Uranium**

This topic accepts abstracts on programmatic and regulatory issues and changes that impact the management of LLW and ILW, including MW (radioactive and hazardous), NORM and TENORM waste, including uranium and by product wastes. Abstracts are solicited on innovative approaches for resolution of these issues, including variances, consent orders, or pursuit of regulatory and statutory change.

**Topic Sponsor and Organizer:**

Dave Eaton, INEL, V: +1 (208) 526-7002, Email: dle@inel.gov

**Additional Organizers:**

Gabriele Bandt, TÜV NORD Ensys, V: +49 (511) 986-1551, Email: gbandt@tuev-nord.de

Linda Beach, WCS, V: +1 (575) 394-4300; Email: lbeach@wctexas.com

### **3.2 Recent Changes Among LLW, ILW, MW, NORM and TENORM Classification and Disposal Regulations**

This topic accepts abstracts on the differences in classification and regulations in different countries and some of the recent and expected changes affecting LLW/ILW/ MW, NORM and TENORM waste management and disposal.

**Topic Sponsor and Organizer:**

Gabriele Bandt, TÜV NORD Ensys, V: +49 (511) 986-1551, Email: gbandt@tuev-nord.de

**Additional Organizer:**

Heinz Kröger, TÜV NORD Ensys, V: +49 (511) 986-1876, Email: hkroeger@tuev-nord.de

### **3.3 Pollution Prevention/Waste Minimization for LLW, ILW, MW, NORM and TENORM**

This topic accepts abstracts on pollution prevention initiatives and projects to reduce the volume, mass, or toxicity of LLW, ILW, MW and hazardous waste. Abstracts are solicited to address administrative and engineering methods and approaches to reduce waste generation and will include programmatic as well as project specific information.

**Topic Sponsor and Organizer:**

Gabriele Bandt, TÜV NORD Ensys, V: +49 (511) 986-1551, Email: gbandt@tuev-nord.de

**Additional Organizer:**

Holger Spann, E.ON Kernkraft GmbH, V: + 49 (511) -439-42 29, Email: holger.spann@eon-energie.com

Lance Mezga, Oak Ridge National Laboratory, V: +1 (865) 574-7258, Email: mezgalj@ornl.gov

### **3.4 Waste Characterization for LLW, ILW, MW, NORM and TENORM**

This topic accepts abstracts on methodologies and approaches for waste characterization. Abstracts are solicited to address administrative, programmatic, and analytical methods and approaches for characterizing all types of waste (LLW, ILW, Mixed, NORM & TENORM).

**Topic Sponsor and Organizer:**

Heinz Kröger, TÜV NORD Ensys, V: +49 (511) 986-1876, Email: hkroeger@tuev-nord.de

**Additional Organizers:**

Lance Mezga, Oak Ridge National Laboratory, V: +1 (865) 574-7258, Email: mezgalj@ornl.gov

Frazier Bronson, Canberra, V: +1 (203) 639-2345, Email: fbronson@canberra.com

Dale Bignell, Washington Closure Hanford, V: +1 (509) 507-1080, Email: dtbignell@wch-rcc.com

### **3.5 Emerging Treatment Technologies for LLW, ILW, MW, NORM and TENORM**

This topic accepts abstracts on emerging technologies for the treatment of LLW, ILW, MW, NORM & TENORM wastes. Treatment technologies include both physical and chemical treatment processes, including stabilization/ immobilization technologies, thermal technologies (i.e., incineration and non-incineration options), and wastewater treatment processes. Of particular interest are abstracts on promising new technologies that will reduce waste volumes, produce improved waste forms and/or reduce radioactive effluents, compared to established methods. (**NPP operational LLW is covered in Track 4.**)

**Topic Sponsor and Organizer:**

Paul Macbeth, US DOE, V: +1 (509) 372-2289, Email: Paul\_J\_Macbeth@rl.gov

**Additional Organizers:**

Rod Grebb, HER Creative Solutions, LLC, V: +1 303-506-2061, Email: rod.grebb@comcast.net

Mike Eisenhower, Materials & Energy Corp., V: +1 865-674-0333, Email: meisenhower@perma-fix.com

### **3.6 Operating Experience in the Treatment and Storage of LLW, ILW, MW, NORM & TENORM**

This topic accepts abstracts on experiences of operating sites and facilities in the treatment and storage of LLW, ILW, MW, NORM and TENORM wastes. Abstracts are solicited on management systems, operating procedures, facility design and construction, economic analyses, risk assessments and operational experience. (NPP operational LLW is covered in Track 4.)

**Topic Sponsor and Organizer:**

Linda Beach, WCS, V: +1 (575) 394-4300; Email: lbeach@wcstexas.com

**Additional Organizer:**

Paul Larsen, EnergySolutions, V: +1 (801) 649-2126, Email: plarsen@energysolutions.com

Holger Spann, E.ON Kernkraft GmbH, V: + 49 (511) -439-42 29, Email: holger.spann@eon-energie.com

### **3.7 Waste Certification, Acceptance and Disposal for LLW, ILW, MW, NORM and TENORM**

This topic accepts abstracts on issues constraining and impacting the ability to certify and dispose of LLW, ILW, MW, NORM and TENORM. Of particular interest, abstracts are solicited on the review of the technical and institutional issues remaining with regard to the disposal of wastes at existing or proposed facilities.

**Topic Sponsor and Organizer:**

Heinz Kröger, TÜV NORD Ensys, V: +49 (511) 986-1876, Email: hkroeger@tuev-nord.de

**Additional Organizer:**

Kenneth Guay, DOE-NNSA, V: +1 (865) 574-4327, Email: **kp5@yso.doe.gov**

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

This topic accepts abstracts on approaches to assessing long-term performance of near-surface disposal facilities for LLW, ILW, MW, NORM and TENORM in terms of evaluating contaminant releases with respect to applicable performance measures. Abstracts accepted include experiences gained worldwide in implementing engineered features to improve facility performance, evaluation of contaminant releases from these facilities over time and contaminant transport through adjacent geologic media to points of assessment. Abstracts that address methods to enhance the level of confidence in performance/safety evaluations, including associated research investigations, data acquisition as part of long-term monitoring programs, dispersal of radionuclides from disposal facilities by biological means, experimental testing to improve understanding of subsurface flow systems and improvements in modeling techniques and approaches are encouraged. This Topic is complementary to Topics 1.4 and 2.11 in all both Topics will consider exchanges in abstracts and will coordinate presentation times in developing the WM2011 Program.

**Topic Sponsor and Organizer:**

Bob Hiergesell, SRNL, V: +1 (803) 725-5219, Email: robert.hiergesell@srnl.doe.gov

**Additional Organizer:**

Martin Letourneau, US DOE, V :+1-(301) 903-3532, Email : martin.letourneau@em.doe.gov

### **3.9 The Uranium Industry - Current Topics and Issues**

This topic accepts abstracts on a variety of projects and current issues dealing with the many new techniques and approaches of modern uranium ore extraction and processing, foreign and domestic (mining, milling, in situ recovery); closure of former uranium processing sites and the management of uranium or thorium ores as well as byproducts or tailings, NORM and TENORM wastes. The topic also will accept abstracts dealing with the management of depleted uranium inventories.

**Topic Sponsor and Organizer:**

Steve Brown, Consultant, V: +1 (303) 941-1506, Email: shb12@msn.com

**Additional Organizers:**

Larry Camper, NRC, V: +1 (301) 415-6673, Email: lwc@nrc.gov

Erich W. Tiepel, Golder Associates, V: +1 (303) 980-0540, Email: etiepel@golder.com

Rod Grebb, HER Creative Solutions, LLC, V: +1 (303) 506-2061, Email: rod.grebb@comcast.net

### **3.10 Selected Key Topics in US Commercial LLW Management**

This topic accepts abstracts on key issues in commercial LLW management in the US and is the second half of the panel topic R3.1, but is a paper topic. This Topic will include the presentation of the Richard S. Hodes Award followed by the awardees' presentation and next will be two selected papers on key US issues regarding state regulatory and legislative activities, legal developments in states and compacts, federal regulatory and legislative activities, and economic and technical trends in LLW processing.

**Topic Sponsor and Organizer:**

Linda Beach, WCS, V: +1 (575) 394-4300; Email: lbeach@wctexas.com

**Additional Organizer:**

Kathryn Haynes, Southeast Compact Commission, V: +1 (919) 821-0500, Email: khaynes@secompact.org

***Restricted (R) Topics for Abstracts and Speakers Requested Solely by the Organizers*****R3.1 Panel: Hot Topics in US Commercial LLW Management**

This topic focuses on hot issues in commercial LLW management in the US from the perspective of members of the Low-Level Radioactive Waste Forum, Inc. The latest news will be presented regarding state regulatory and legislative activities, legal developments in states and compacts, federal regulatory and legislative activities, and economic and technical trends in waste processing. The latest needs and concerns of commercial waste generators will also be discussed.

**Topic Sponsor and Organizer:**

Kathryn Haynes, Southeast Compact Commission, V: +1 (919) 821-0500, Email: khaynes@secompact.org

**Additional Organizer:**

Linda Beach, WCS, V: +1 (575) 394-4300; Email: lbeach@wctexas.com

**R3.2 Panel: Disposition of DOE High-Activity Mixed Waste: What Capacity Do We Really Need?**

This topic focuses on the disposition of DOE high-activity mixed hazardous/radioactive waste (MW) and other problematic mixed waste streams. 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 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 2011 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 DOE and to a lesser extent from the commercial sector? Will the WCS proposed disposal site make the mixed waste challenges of today a no-never mind issue down the road?

**Topic Sponsor and Organizer:**

Dick Blauvelt, Navarro, V: +1 (513) 423-9258, Email: blauvelt@navarro-inc.com

**R3.3 Panel: Disposal of Large Quantities of Depleted Uranium**

This topic focuses on the large quantities of depleted uranium in the US which will need to be disposed in the next several years. The US NRC has decided to pursue Rulemaking to require a site specific performance assessment for disposal of unique waste streams including large quantities of depleted uranium. The NRC Rulemaking will also identify the technical parameters to be evaluated within the performance assessment. The panel will discuss this complex topic including suggestions for conducting the performance assessment.

**Topic Sponsor and Organizer:**

Larry Camper, NRC, V: +1 (301) 415-6673, Email: lwc@nrc.gov

**4 - NUCLEAR POWER PLANT (NPP) WASTE MANAGEMENT****(Operational Waste Management and NPP Spent Nuclear Fuel (SNF))**

Clint Miller, Pacific Gas & Electric Co. (Co-Chair), V: +1 (805) 545-4582, Email: ccm1@pge.com

Mark Lewis, EnergySolutions (Co-Chair), V: +1 (803) 758-1827, Email: mslewis@energysolutions.com

Wolfgang Steinwarz, Siempelkamp (Co-Chair), V: +49 (2151) 8948-290, Email: wolfgang.steinwarz@siempelkamp.com

The Nuclear Power Plant (NPP) Waste Management Track encompasses waste characterization and minimization, treatment, packaging and management of NPP operational wastes and NPP SNF storage and management.

**4 - Nuclear Power Plant (NPP) Waste Management - Non-specified Abstracts****4.0 - Nuclear Power Plant (NPP) Waste Management - Posters****4.1 Management of Nuclear Power Plant Dry Waste**

This topic accepts abstracts on minimization, volume reduction and packaging of dry waste at NPPs.

**Topic Sponsor and Organizer:**

Wolfgang Steinwarz, Siempelkamp, V: +49 (2151) 8948-290, Email: wolfgang.steinwarz@siempelkamp.com

#### **4.2 Management of Nuclear Power Plant Liquid and Wet Waste**

This topic accepts abstracts on liquid radwaste processing and wet waste packaging experiences at NPPs. Wet waste may include filter cakes, resins, sludge, filters, and other solid wastes that may require liquid removal or processing.

**Topic Sponsor and Organizer:**

Clint Miller, Pacific Gas & Electric Co., V: +1 (805) 545-4582, Email: ccm1@pge.com

**Additional Organizer:**

Olaf Oldiges, GNS, V: +49 (201) 109-1503, Email: olaf.oldiges@gns.de

#### **4.3 Nuclear Power Plant Material Characterization and Onsite SNF/UNF Storage**

This topic accepts abstracts on radioactive material characterization and/or on-site SNF/UNF handling and storage at NPPs. Abstracts addressing NPP SNF/UNF storage issues, improvements in storage and handling systems, and advances in storage facility designs are included.

**Topic Sponsor and Organizer:**

John Remark, AREVA NP, V: +1 (434) 832-3741, Email: john.remark@areva.com

**Additional Organizer:**

John McFee, Grand Lake Consulting, LLC. V: +1 (303) 908-7637, Email: johnmcfec@comcast.net

#### ***(R) Topics for Abstracts and Speakers Requested Solely by the Organizers***

##### **R4.1 Panel: Nuclear Power Plant Waste Management – LLW Disposal Issues**

This topic focuses on senior utility managers discussing issues with disposal site operators.

**Topic Sponsor and Organizer:**

Clint Miller, Pacific Gas & Electric Co., V: +1 (805) 545-4582, Email: ccm1@pge.com

**Additional Organizer:**

Mark Lewis, EnergySolutions, V: +1 (803) 758-1827, Email: mslewis@energysolutions.com

##### **R4.2 Panel: Nuclear Power Plant Waste Management – LLW Processor Issues**

This topic focuses on senior utility managers discussing issues with commercial LLW processors. LLW processors will have an opportunity to update utilities/NPPs on new or different services or technologies being offered to assist in their radioactive waste management goals.

**Topic Sponsor and Organizer:**

Mark Lewis, EnergySolutions, V: +1 (803) 758-1827, Email: mslewis@energysolutions.com

##### **R4.3 Panel: Nuclear Renaissance- New Nuclear Plants Hot Topics**

This topic focuses on the progress towards licensing the next generation of nuclear power plants that has progressed with construction looming on the horizon. Panelists will discuss experience from license application submittals and their regulatory review, design certification experience, and next generation nuclear plant development. In addition to radioactive waste licensing and systems design, panelists will discuss decommissioning considerations in plant design, the impact of new plant construction on sites with operating plants or plants undergoing decommissioning. The panel will also include discussions related to security and safeguards for new nuclear plants.

**Topic Sponsor and Organizer:**

Jay Maisler, Enercon Services, V:+1 (813)-962-1800, Email: jmaisler@enercon.com

**Additional Organizers:**

K.D. Auclair, K.D. Auclair and Associates, V: +1 (360) 609-0627, Email: kdaclair@aol.com

Jas Devgun, Sargent & Lundy LLC, V: +1 (312) 269-2283, Email: jas.s.devgun@sargentlundy.com

#### **5 - PACKAGING AND TRANSPORTATION (PAT)**

Lawrence Harmon, Project Enhancement Corporation (Co-Chair), V: +1 (240) 686-3059, Email: harmon@pec1.net

Richard Yoshimura, SNL (Co-Chair), V: +1 (505) 845-8181, Email: rhyoshi@sandia.gov

Olaf Oldiges, GNS, (Co-Chair), V: +49 (201) 109-1503, Email: olaf.oldiges@gns.de

The Packaging and Transportation Track includes all activities and issues related to the safe, secure, and economical packaging and transportation of radioactive materials. This includes HLW, TRU, LLW, ILW and MW; fresh and irradiated nuclear fuel; contaminated media and debris; isotopes and radioactive sources; uranium hexafluoride, etc. Topic areas include: International regulatory activities, issues, and initiatives; packaging development and related issues; logistics and transportation operations, including large items from decommissioning; integrated planning and scheduling; status and issues for large shipping campaigns; and stakeholder and public interactions and issues.

## **5 Packaging and Transportation - Non-Specified Abstracts**

### **5.0 Packaging and Transportation - Posters**

#### **5.1 Packaging and Transportation of Radioactive Material, Radioactive and Hazardous Waste and Spent/Used Nuclear Fuel**

This topic accepts abstracts on worldwide innovation, experiences, and lessons learned in packaging and transportation of radioactive material, radioactive and hazardous waste, and spent nuclear fuel/ used Nuclear fuel. This topic also includes abstracts describing the design and licensing phase of package development. Of special interest is modal-related topics and experience including highway, rail, water, and air transport. In addition, topics on barge, intermodal, heavy-haul, and overweight shipments are encouraged. Topics may also include experience and capabilities to solve current packaging and transportation challenges, technical issues, traffic management, and logistics. Abstracts are also encouraged on packaging and transportation strategies resulting from “cancellation” of the Yucca Mountain Project.

##### **Topic Sponsor and Organizer:**

Ella McNeil, USDOE/HQ, V: +1 (301)-903-7284, Email: ella.mcneil@em.doe.gov

##### **Additional Organizers:**

Daniel Jordan, ENERCON, V: +1 (804)-724-1563, Email: djordan@enercon.com

Paul Jones, DeNuke Services, V: +1 (865)-591-8632, Email: pjones@denuke.com

#### **5.2 Radioactive Material Packaging and Transportation Regulatory Issues**

This topic accepts abstracts on national and international regulatory and multi-regulatory challenges and issues, including regulatory change and risk-informed regulation (DOT, NRC, IAEA, ADR and other applicable agencies, worldwide). In addition, abstracts are encouraged related to NRC’s Package Performance Study, including package-testing alternatives and on the research and analysis of radiological dose and health effects of radioactive materials transport. Abstracts are encouraged on incidents and accidents (recent or historical), focusing on outcomes and lessons learned, and abstracts related to potential threats and sabotage of radioactive materials packages in transit.

##### **Topic Sponsor and Organizer:**

Richard Yoshimura, SNL, V: +1 (505)-845-8181, Email: rhyoshi@sandia.gov

##### **Additional Organizer:**

Mike Nolan, Dade Moeller & Associates, V: +1 (509)-946-0410, Email mike.nolan@moellerinc.com

Christopher Bajwa, U.S. NRC, V: +1 (301)-492-3333, Email: chris.bajwa@nrc.gov

#### **5.3 The Safe Transport of Radioactive Materials Within and Between Countries**

This topic accepts abstracts on international, national, state and local stakeholder perspectives and expectations on transportation of radioactive materials, including transboundary issues. Abstracts may include international emergency response, preparedness, training, regulatory issues. Abstracts on solutions and negotiating strategies for international shipments are encouraged, as are abstracts on reports or incidents and accidents (recent or historical) focusing on outcomes and lessons learned. Additional topics may include international cooperative programs for packaging design and testing.

##### **Topic Sponsor and Organizer:**

Olaf Oldiges, GNS, V +1-49-201-109-1503, Email: olaf.oldiges@gns.de

##### **Additional Organizer:**

Paul Jones, DeNuke Services, V: +1-(865)-591-8632, Email: pjones@denuke.com

#### **5.4 Involvement of State, Regional and Tribal Groups in Resolving Issues Surrounding Transportation of Radioactive Material, Radioactive and Hazardous Waste, and Spent Nuclear Fuel**

This topic accepts abstracts on how States, Regional and Tribal organizations participate in and influence decisions for safe transportation of radioactive materials and SNF. Abstracts are solicited from these interest groups and include: interest group objectives, ongoing group activities and policy decision recommendations, related research, strategic approaches, and socioeconomic

considerations. Other topics include, risk management, risk perception, transportation risk, risk communication, and emergency preparedness and response.

**Topic Sponsor and Organizer:**

Lawrence Harmon, Project Enhancement Corporation (Co-chair) V: +1-(240)-686-3059, Email: lharmon@pec1.net

**Additional Organizers:**

Ella McNeil, U.S. DOE/HQ, V: +1-(301)-903-7284, Email: ella.mcneil@em.doe.gov

Alex Thrower, U.S. DOE/RW, V +1-(202)-586-7905, Email: alexander.thrower@rw.doe.gov

**6 - DECONTAMINATION & DECOMMISSIONING (D&D)**

Jas Devgun, Sargent & Lundy LLC (Co-Chair), V: +1 (312) 269-2283, Email: jas.s.devgun@sargentlundy.com

Fred Sheil, Sellafield Ltd. (Co-Chair), V: +44 (19) 467-84813, Email: fred.e.sheil@sellafieldsites.com

Albert A. Freitag, Burns & Roe, (Co-Chair), V: +1 (845) 361-1963, Email: aafreitag@aol.com

This Track includes all aspects of D&D from shutdown and planning to license termination and/or green-field, including characterization, decontamination, dismantling, demolition, waste handling, final survey, and associated new technology development for both government and commercial nuclear power and non-power facilities. It also includes decommissioning technologies and program strategies worldwide, as well as the regulatory aspects.

**6 D&D - Non-specified Abstracts**

**6.0 D&D - Posters**

**6.1 D&D of Nuclear Contaminated Facilities (Non-Power Generating Facilities/Large and Small Nuclear Facilities)**

This topic accepts abstracts on actual D&D projects of non-power generating contaminated facilities, such as research reactors, research laboratories as well as small nuclear facilities such as hospitals, universities, nuclear laundries, radiochemical laboratories etc. Lessons learned, progress, innovative approaches are included in this topic.

**Topic Sponsor and Organizer:**

Fred Sheil, Sellafield Ltd., V: +44 (19) 467-84813, Email:fred.e.sheil@sellafieldsites.com

**Additional Organizers:**

Albert A. Freitag, Burns & Roe, V: +1 (845) 361-1963, Email:aafreitag@aol.com

Julia Tripp, INL, V: +1 (208) 526-3876, Email: julia.tripp@inl.gov

Anthony Banford, NNL, V: +44(0) 1925 83 2515, Email: anthony.w.banford@nnl.co.uk

**6.2 D&D of US DOE Facilities**

This topic accepts abstracts on the project planning and execution of D&D projects at DOE sites. The topic includes site-wide approaches to footprint reduction, progress and status of DOE D&D projects, innovative approaches to planning, deactivation, execution of projects, and lessons learned.

**Topic Sponsor and Organizer:**

Andrew Szilagyi, US DOE, V: +1 (301) 903-4278, Email: Andrew.Szilagyi@em.doe.gov

**Additional Organizers:**

Julia Tripp, INL, V: +1 (208) 526-3876, Email: julia.tripp@inl.gov

Rick Dearholt, CDM, V: +1 (865) 425-5429, Email: dearholtjr@cdm.com

**6.3 D&D of Nuclear Power Plants**

This topic accepts abstracts on planning, deactivation, execution and final facility cleanup of decommissioning projects, including the lessons learned, worldwide.

**Topic Sponsor and Organizer:**

Jas Devgun, Sargent & Lundy, V: +1 (312) 269-2283, Email: jas.s.devgun@sargentlundy.com

**Additional Organizers:**

Albert A. Freitag, Burns & Roe, V: +1 (845) 361-1963, Email: aafreitag@aol.com

Bernard Poncet, EDF – CIDEN, V :+33 (4 72) 82-4240; Email: bernard-r.poncet@edf.fr

Anja Graf, WAK GmbH, V: +1 49-7247-82-2035, Email: anja.graf@wak-gmbh.de

#### **6.4 Waste Optimization/Minimization During D&D**

This topic accepts abstracts on worldwide perspectives on waste optimization/minimization efforts before and during D&D, clearance or other methods. NPP projects involving replacement and removal of large components and waste optimization/minimization is also included. Experiences from implementation of clearance levels from the point of view of regulators and users are welcome.

**Topic Sponsor and Organizer:**

Maria Lindberg, Studsvik UK, Ltd., V: +44 (191) 482-7142, Email: maria.lindberg@studsvik.co.uk

**Additional Organizer:**

Jas Devgun, Sargent & Lundy, V: +1 (312) 269-2283, Email: jas.s.devgun@sargentlundy.com

Anja Graf, WAK GmbH, V: +49-7247-82-2035, Email: anja.graf@wak-gmbh.de

#### **6.5 Application of Innovative D&D Technologies**

This topic accepts abstracts on the successful application of innovative D&D technologies brought into use from both the commercial and government sectors. Technologies, which make D&D less costly, safer, and more efficient, are sought in all areas of D&D, including robotics, decontamination, characterization; size and volume reduction; disposition; and recycling/recovery.

**Topic Sponsor and Organizer:**

Rick Demmer, INL, V: +1 (208) 533-4277, Email: rick.demmer@inl.gov

**Additional Organizers:**

Bernard Poncet, EDF – CIDEN, V: +33 (4 72) 82-4240; Email: bernard-r.poncet@edf.fr

Rick Dearholt, CDM, V: +1 (865) 425-5429, Email: dearholtjr@cdm.com

#### **6.6 Accelerated Deactivation and Decommissioning of Facilities**

This topic accepts abstracts on the similarities and differences in the approaches used to transition operations to deactivation and through decommissioning. Legacy facilities are of a particular interest since their transition likely did not occur in a measurable, planned and deliberate manner.

**Topic Sponsor and Organizer:**

Maria Lindberg, Studsvik UK, Ltd. V: +44 (191) 482-7142, Email: maria.lindberg@studsvik.co.uk

**Additional Organizer:**

Andy Szilagyi, DOE-EM, V: +1 (301) 903-4278, Email: andrew.szilagyi@em.doe.gov

#### ***Restricted (R) Topics for Abstracts and Speakers Requested Solely by the Organizers***

##### **R6.1 Panel: D&D – Emerging Issues and Strategies**

This topic focuses on national and international emergent issues in decontamination and decommissioning. This topic is restricted to abstracts solicited by the Organizer.

**Topic Sponsor and Organizer:**

Jas Devgun, Sargent & Lundy LLC, V: +1 (312) 269-2283, Email: jas.s.devgun@sargentlundy.com

#### **7 - ENVIRONMENTAL REMEDIATION (ER)**

Angie Jones, AMEC (Co-Chair), V: +1 (865) 671-6774 x259, Email: angie.jones@amec.com

Erich Evered, TerranearPMC (Co-Chair), V: +1 (865) 244-6825, Email: erich.evered@comcast.net

This Track includes all activities associated with the assessment, cleanup, and closure of contaminated sites. The topics will explore how to restore and protect human health and the environment through investigation, cleanup, closure, and long-term site management. The focus is on above and below ground remedial actions and cleanup activities including site inspection, characterization and evaluation; sampling and analysis; environmental risk assessment, compliance monitoring; resolving regulatory issues that impact cleanup; aquifer and soil remediation; managing waste resulting from cleanup activities; remedial design and implementation; accelerating cleanup through technological or process improvements; closure; and legacy management/ long-term stewardship.

#### **7 Environmental Remediation - Non-specified Abstracts**

##### **7.0 Environmental Remediation - Posters**

### **7.1 Environmental Remediation Progress Toward Closure of Contaminated Sites**

This topic accepts abstracts on progress toward completion of site remediation and site closure at contaminated sites highlighting major successes at government and non-government owned locations, university campuses, and commercial facilities. Case studies focusing on specific actions taken that resulted in safe, cost-effective ER or multi-national ER project completions are especially solicited. Abstracts about the use of proven, new technologies are also encouraged.

**Topic Sponsor and Organizer:**

Kurt Gerdes, US DOE

**Additional Organizer:**

Mark Frei, Longenecker & Assoc., V:+1 (301) 233-5983, Email: mwfrei@longenecker-associates.com

### **7.2 Technical Innovations in Environmental Remediation and Site Closure**

This topic accepts abstracts on new technologies and new processes that enable risk reduction, accelerate remediation schedules, streamline cleanup, and reduce maintenance and security cost at high-risk or high-cost sites. Abstracts are solicited to describe specific new technical solutions using existing and innovative technologies that have assisted sites to achieve closure goals and milestones, and/or replaced or improved baseline technologies by providing efficient, cost-effective solutions. Abstracts are also encouraged on in-situ isolation technologies as well as permanent barrier design and construction. Of particular interest are abstracts on successful deployments of technologies or processes used to treat contaminated surface soils, buried waste tanks or ground water, including case studies.

**Topic Sponsor and Organizer:**

Del Baird, CDM, V: +1 (740) 897-2937, Email: bairddr@cdm.com

**Additional Organizer:**

Angie Jones, AMEC, V: +1 (865) 671-6774 x259, Email: angie.jones@amec.com

### **7.3 Innovative Field Monitoring for Environmental Remediation**

This topic accepts abstracts on the monitoring of contaminated sites and its role to assess efficacy of containment and cleanup strategies. Abstracts requested include strategies and technologies for environmental monitoring of air, water, soil, and biota via the development and deployment of remote, in-situ or portable field instruments and integrative approaches for site and waste characterization, remediation process monitoring, and long-term stewardship. Of interest is to reduce uncertainties associated with risk assessment so that less conservative models and assumptions can be used to ensure the safety of workers and the public. Abstracts are also solicited on minimally or non-invasive approaches based on new detection methods or concepts, improved sampling strategies, and the acquisition and interpretation of field-test data.

**Topic Sponsor and Organizer:**

Dave Eaton, INEEL, V: +1 (208) 533-0621, Email: dle@icp.doe.gov

**Additional Organizers:**

Donna Guillen, INL, V: +1 (208) 526-1744; Email: Donna.Guillen@inl.gov

Jim Yeh, U of Arizona, V: +1 (520) 621-5943, Email: yeh@hwr.arizona.edu

### **7.4 ER Pre-Closure Challenges - Using Risk Data and Considering Future Land Use**

This topic accepts abstracts on how risk information and future land use (end state) considerations are being used in environmental remediation and development of cleanup standards. Abstracts are solicited that discuss the process used to determine end states and future land use, incorporate risk into cleanup decision making, develop variances and conceptual site models, and develop the risk analysis and data quality tools necessary to achieve this.

**Topic Sponsor and Organizer:**

Angie Jones, AMEC, V: +1 (865) 671-6774 x259, Email: angie.jones@amec.com

**Additional Organizers:**

Moses Jaraysi, CH2M Hill PRC, V:+1 (509) 438-1596, Email: Moses\_Jaraysi@RL.gov

Matt McCormick, DOE Richland, V:+1 (509)-373-9971, Email: Matthew\_S\_Mccormick@rl.gov

### **7.5 ER Post Closure Challenges and Long Term Stewardship/Legacy Management**

This topic accepts abstracts on post-closure progress and results in monitoring end states (future land use) for sites contaminated with radioactive or hazardous materials. Abstracts are solicited that discuss implementation of long-term stewardship, legacy management plans and associated responsibilities. This topic includes abstracts discussing the processes used to identify what contaminants will

remain on a site, the results of risk assessments that demonstrated the potential hazard of leaving these materials on site, as well as the required long-term stewardship activities.

**Topic Sponsor and Organizer:**

Ray Plienness, DOE Office of Legacy Mgmt, V: +1 (970) 248-6091, Email: raymond.plienness@lm.doe.gov

**Additional Organizers:**

Dale Bignell, Washington Closure Hanford, V: +1 (509) 507-1080, Email: dtbignel@wch-rcc.com

Mark Frei, Longenecker & Assoc., V:+1 (301) 233-5983, Email: mwfrei@longenecker-associates.com

**7.6 US - Formerly Utilized Sites Remedial Action Program (FUSRAP) and Other US Army Corp of Engineers Projects**

This topic accepts abstracts on the US Army Corps of Engineers and the FUSRAP program. Abstracts for this topic are solicited to update program achievement and site accomplishments, waste characterization and waste volume issues, health physics approaches, long-term stewardship issues, excavation methodologies, technology deployment, and disposal requirements. In addition, this topic accepts abstracts on closed FUSRAP sites transitioning to the DOE for legacy management, including planning and process, issues and challenges, success stories, lessons learned, the state of affairs related to assets transferred and findings, and costs.

**Topic Sponsor and Organizer:**

Allen Roos, US ACE, V: +1 (917) 790-8333, Email: allen.d.roos@usace.army.mil

**Additional Organizer:**

Steve Brown, Consultant, V: +1 (303) 941-1506, Email: shb12@msn.com

**7.7 Featured 2011 ER Technical Challenge: In-situ Stabilization of Radionuclides and Metals**

This topic accepts abstracts on technologies and methodologies for the in-situ stabilization of metal and radioactive contaminants in soils and sludges. Abstracts addressing all aspects of the study area are encouraged, including; chemical and biological approaches along with the evaluation of long-term stability of these materials.

**Topic Sponsor and Organizer:**

Erich Evered, TerranearPMC (Co-Chair), V: +1 (865) 244-6825, Email: erich.evered@comcast.net

**Additional Organizers:**

Ed Alperin, Shaw Group, V: +1 (865) 694-7335, Email: ed.alperin@shawgrp.com

Paul Macbeth, US DOE RL, V: +1 (509) 372-2289, Email: Paul\_J\_Macbeth@rl.gov

**7.8 Lessons Learned in Environmental Remediation Projects in the UK**

This topic accepts abstracts on environmental remediation (ER) projects in the UK and the lessons learned applicable to other countries. Abstracts are encouraged that demonstrate progress toward completion of site remediation and site closure at contaminated sites highlighting major successes and case studies focusing on specific actions taken that resulted in safe, cost-effective ER. Also of interest is the use of new technologies and new processes that enable risk reduction, accelerate remediation schedules, streamline cleanup, and reduce maintenance and security costs at high-risk or high-cost sites.

**Topic Sponsor and Organizer**

Angie Jones, AMEC, V: +1 (865) 671-6774 x259, Email: angie.jones@amec.com

**Additional Organizer:**

Brad Smith, CH2M Hill International, V: + 011-44-7769682645, Email: bsmith4@ch2m.com

**7.9 Groundwater Remediation Projects**

This topic accepts abstracts on new methodologies and technologies being utilized to optimize the remediation of groundwater. Abstracts will be accepted on such activities as pump and treat, redox or chemical barriers, bio-remediation, remedial project optimization, and other methods currently being utilized at Hanford. Aspects to be discussed include: lessons learned, innovations, strategies, status and overall goals.

**Topic Sponsor and Organizer:**

John Kristofzski, CH2M Hill, V: +1 (509) 373-4225, Email: John\_G\_Kristofzski@rl.gov

**Additional Organizers:**

Bob Popielarczyk, CH2M Hill, Inc., V:+1 (509) 373-2166, Email: R\_S\_Bob\_Popielarczyk@rl.gov

### **7.10 Deep Vadose Zone Characterization and Remediation Technologies**

This topic accepts abstracts on soil contamination which is beyond typical “Remove-Treat-Dispose” technologies’ reach. This deep vadose contamination is posing critical and key impacts to the groundwater over extended periods of time. Identifying the extent of contamination and deploying the appropriate technologies have been great challenges on many DOE sites.

**Topic Sponsor and Organizer:**

Kurt Gerdes, USDOE, V: +1 (301) 903-7289 Email: kurt.gerdes@em.doe.gov

**Additional Organizers:**

Dyan Foss, CH2M Hill PRC, V: +1 (509) 376-0771, Email: Dyan\_L\_Foss@rl.gov

Briant Charboneau, DOE Richland, V: +1 (509) 373-6137, Email: Briant\_L\_Charboneau@rl.gov

***Restricted (R) Topics for Abstracts and Speakers Requested Solely by the Organizer***

#### **R7.1 Panel: Emerging Issues in Environmental Remediation**

This topic focuses on some of the challenges involved with achieving radioactive site remediation. It will involve industry leaders in environmental remediation composed of management, contractors, remediation contractors, State and Federal government representatives.

**Topic Sponsor and Organizer:**

Erich Evered, TerranearPMC, V: +1 (865) 244-6825, Email: erich.evered@comcast.net

**Additional Organizer:**

Angie Jones, AMEC, V: +1 (865) 671-6774 x259, Email: angie.jones@amec.com

#### **R7.2 Panel: Global Networking - Resources for Safer and More Efficient Remediation**

This topic focuses on and is a follow-up from the WM2010 series on ENVIRONET -the IAEA Network on Environmental Management and Remediation. The network is actually promoting development of regulations, skills, training, technical outreach and funding needed to accomplish safer, more efficient remediation. The network will also transfer knowledge and lessons learned to encourage improved life cycle planning of future projects and the present generation of new legacy sites. Progress in development of network projects will be presented.

**Topic Sponsor and Organizer:**

Michelle Rehmann, HER Creative Solutions, V: +1 (970) 547-2143, Email:michelle\_rehmann@wmarizona.org

**Additional Organizer:**

H.Monken-Fernandes, IAEA, V: +43-1-2600-24673, Email: H.Monken-Fernandes@iaea.org

### **8. PUBLIC COMMUNICATIONS, INVOLVEMENT, EDUCATION AND TRAINING (CE&T)**

Connie Callan, NETS, LLC (Co-Chair), V: +1 (505) 350-1433, Email: ccallan@netsamerica.com

John Dalton, NDA (Co-Chair), V: +44 (12) 358-25678, Email: john.dalton@nda.gov.uk

Welford (Sonny) Goldston, WSRC, V: +1 (803) 557-6314, Email: sonny.goldston@srs.gov

Managing radioactive waste involves more than scientific and technical issues. This track incorporates a broad range of cultural, equity, social, environmental, policy, communications, training and educational issues that shape decisions involving waste management. The objective is to inform conference participants, including technical managers, on issues involving the general public and community stakeholders who are outside the waste management professional field. Issues are divided into multiple, diverse topics including public participation, communication techniques, education and training, social justice and equity, intergenerational issues, safety and risk communication, and socioeconomic and environmental impacts.

#### **8. Public Communication, Participation, Education and Training – Non-Specified Abstracts**

##### **8.0 Public Communication, Participation, Education and Training – Posters**

##### **8.1 Communication of Technical Issues**

This topic accepts abstracts on experiences gained from involving the public/stakeholders, regulators, peers, customers, and government entities in technical issues. The goal of this topic is to explore all aspects of communicating technical issues associated with the radioactive waste management industry, including environment, safety, health, quality, and other support services. The aim is to capture various perspectives for waste management practitioners, policy makers, regulators, implementers, and members of the public. This topic highlights approaches that have been successful and can be applied by others. This topic will draw on ideas from a

variety of disciplines that have experience in communication of, and participation in, controversial issues that may offer insights into the multi-disciplinary field of radioactive waste management.

**Topic Sponsor and Organizer:**

Elizabeth M. Bowers, US DOE, Richland, V: +1 (509) 373-9276, Email: elizabeth.bowers@rl.doe.gov

**Additional Organizers:**

Cherri DeFigh-Price, Parsons, V: +1 (803) 502-9528, Email: Cherri.DeFigh-Price@parsons.com  
Welford (Sonny) Goldston, WSRC, V: +1 (803) 557-6314, Email: sonny.goldston@srs.gov

**8.2 Engaging Citizens – Lessons Learned From Around the World**

This topic accepts abstracts on local, national, and international efforts to improve public involvement in radioactive waste projects and programs. Abstracts are welcomed in all areas of involving the public and their participation, including environmental statutes and regulations, outreach and communication techniques including, use of electronic technologies. In particular, this topic welcomes abstracts on demonstrating how feedback and lessons learned have been obtained from stakeholders and how this input has influenced decision making.

**Topic Sponsor and Organizer:**

John Dalton, NDA, V: +44 (12) 358-25678, Email: john.dalton@nda.gov.uk

**Additional Organizers:**

Heather Klebba, Nuclear Filter Technology, V: +1 (303) 870-5277, f: (303) 384-9579, heather@nucfil.com  
Dale Bignell, Washington Closure Hanford, V: +1 (509) 507-1080, Email: dtbignell@wch-rcc.com  
Laurence Pernot, Areva, V: +1 (301)-841-1694, Email: laurence.pernot@areva.com

**8.3 Information Management: Retrieval And Evaluation Of Historical Data**

This topic accepts abstracts on information communication and knowledge management technologies and techniques utilized to organize, maintain, share, and track/trend data. The emphasis is on innovative approaches for efficient and effective frameworks to access, interpret, and communicate information, including training needed to address an aging workforce in order to transition knowledge needed to maintain a qualified core workforce.

**Topic Sponsor and Organizer:**

Welford (Sonny) Goldston, WSRC, V: +1 (803) 557-6314, Email: sonny.goldston@srs.gov

**Additional Organizers:**

Jeannette Hyatt, Savannah River Nuclear Solutions, V:+1-(803)-557-6358, Email: Jeannette.Hyatt@srs.gov  
Karen Guevara, DOE-SR, V: +1 (803)-952-9611, Email: karen.guevara@srs.gov  
Margaret MacDonell, ANL, V: +1 (630) 252-3243, Email: macdonell@anl.gov

**Session 8.4 The Citizen Voice - Impacting the Nuclear Renaissance Through Public Involvement**

This topic accepts abstracts that are focused on the decision to discontinue the Yucca Mountain Repository program and the lack of worldwide capacity for disposal of spent fuel and high level waste. The citizens of this country and the world should voice their opinions of this grave decision (express outrage or approval) and its effect on nuclear power. Scientists and engineers must find a way to inform and educate the public and the citizens must speak out.

**Topic Sponsor and Organizer:**

Welford (Sonny) Goldston, WSRC, V: +1 (803) 557-6314, Email: sonny.goldston@srs.gov

**Additional Organizers:**

Susan Wood, Citizens for Nuclear Technology Awareness, V: +1 (803)-643-8820, Email: jukat133@bellsouth.net  
Laurence Pernot, Areva, V: +1 (301)-841-1694, Email: laurence.pernot@areva.com  
Melissa Nielson, DOE/HQ, V: +1 (202) 586-0356, Email: melissa.nielson@em.doe.gov

**8.5 Visitor Centers and Other Public-Education Tools**

This topic accepts abstracts on the diverse tools being used to share historical and technical information to help educate the public. Visitor centers, national historic landmarks, curation of artifacts, museums and on-line virtual tours are examples of effective venues and media for engaging audiences – from students and affected community residents to citizen advocate and intervener groups and the public-at-large. The onset of the “Nuclear Renaissance” and the influence of the associated public process make educating stakeholders an imperative. Managing hazardous and nuclear waste, decommissioning and demolishing contaminated facilities and building new nuclear facilities are intrinsically linked with building new nuclear power plants because public approval influences their

outcome and affects their ultimate success. Presenters discussing facilities and approaches for educating the public are invited to submit abstracts for this topic.

**Topic Sponsor and Organizer:**

Judith Connell, Fluor Government Group, V: +1 (509) 376-6808, Email: Judith\_Connell@rl.gov

**Additional Organizers:**

Elizabeth M. Bowers, US DOE, RL, V: +1 (509) 373-9276, Email: elizabeth.bowers@rl.doe.gov

Helen Belencan, US DOE, SRS, V: +1 (803) 952-8696, Email: helen.belencan@srs.gov

James Walther, National Museum of Nuclear Science & History, V: +1 (505) 245-2137, Email: jwalther@nuclearmuseum.org

**8.6 Information Communication Technology, Knowledge Management, and Other Approaches for Sharing Environmental/WM Data, Cleanup Progress, and Preparedness Planning**

This topic accepts abstracts on information communication and knowledge management technologies and techniques to organize, share, maintain, and track/trend data for sites and facilities with contamination issues, including data relevant to preparedness for incident response. The emphasis is on innovative approaches for efficient and effective frameworks to access, interpret, and communicate information that addresses broad stakeholder concerns about sustained protection of community health, worker health and safety, and the environment. This will involve information/records and knowledge management tools and database and metadatabase approaches that facilitate compilation, integration, content access, and updating of extensive data from multiple sources over time. The overall aim is to improve external as well as internal interactions, limit redundancy, and streamline sharing of routine and incident-specific information with a variety of stakeholders on facility and environmental contamination, cleanup progress, and preparedness planning.

**Topic Sponsor and Organizer:**

Margaret MacDonell, ANL, V: +1 (630) 252-3243, Email: macdonell@anl.gov

**Additional Organizers:**

Michelle Barker, U.S. Army Corp, Buffalo District; V: +1 (716) 879-4198, Email: Michelle.C.Barker@usace.army.mil

R. Douglas Hildebrand, US DOE, Richland, V: +1 (509) 373-9626; Email: R\_D\_Doug\_Hildebrand@RL.gov

John Lowe, CH2M Hill Plateau Remediation Company, Richland, V: +1 (509) 373-4493, Email: John\_A\_Lowe@rl.gov

***Restricted (R) Topics for Abstracts and Speakers Requested Solely by the Organizers***

**R8.1 Panel: Graduating Students and New Engineers- Wants and Needs - Are Companies Even Listening?**

This topic 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.

**Topic Sponsor and Organizer:**

Robert Berry, Foxfire Scientific Inc., V: +44 (161) 292-7990, Email: berry@foxfirescientific.com

**Additional Organizers:**

Collin Donohoue, Colorado School of Mines, V: +1 (303) 273-3091, Email: cdonohou@mines.edu

Leonel E. Lagos, ARC, V: +1 (305) 348-1810, Email: Lagosl@fiu.edu

**R8.2 Panel: International Youth Nuclear Congress/Young Professionals**

This topic focuses 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 roundtable-style format will enable the future leaders of our industry to share ideas and experiences, and of course, develop contacts within their peer group on a truly international level. By selecting the roundtable format, it is hoped that the topic will be interactive, stimulating valuable discussion among the participants and the audience. The panel 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. Solicited are abstracts describing issues, nominees and their qualifications, or volunteers for this interactive panel.

**Topic Sponsor and Organizer:**

Robert Berry, Foxfire Scientific Inc., V: +44 (161) 292-7990, Email: berry@foxfirescientific.com

**Additional Organizers:**

Leonel E. Lagos, ARC, V: +1 (305) 348-1810, Email: Lagosl@fiu.edu

Amanda MacMillan, NIA, +44- (0)20 7766 6643, Email: Amanda.macmillan@niauk.org  
 Corhyn Parr, Nuclear Enterprise, V : +44-1925-290042, Email: corhyn.parr@nuclearenterprise.com

### **Panel: R8.3 Training and Human Resource Development in Radioactive Waste Management**

This topic focuses on the IAEA's efforts and efforts of different IAEA Member States in training and development of human resources for performing activities in RWM, decommissioning and environmental remediation.

#### **Topic Sponsor and Organizer:**

Irena Mele, IAEA, V: +43- 1 2600 22662, Email: I.Mele@IAEA.org

#### **Additional Organizers:**

Paul Degnan, IAEA, V: +43 -1 2600 21535, Email: P.Degnan@IAEA.org

## **9 – SAFETY, SECURITY AND SAFEGUARDS (SS&S)**

K.D. Auclair, K.D. Auclair and Associates (Chair), V: +1 (360) 609-0627, Email: kdaclair@aol.com

This Track includes all aspects of International Safety, Security, and Safeguards, including US Homeland Security issues. The effects of terrorist events have rippled throughout many programs domestic and abroad. For US programs, the funding of major programs includes the "Portal Monitoring Project for Port Facilities" and the "Guardian Program" funded through DOD in conjunction with Department of Homeland Security (DHS). Similar programs exist in other countries. In addition this Track focuses on Consequence Management of a "Radiological Dispersion Device" event(s) and other subjects related to "The US National Response Plan" (NRP) and similar programs worldwide as well as issues associated with the detection and interception of "imported" fissile material and nuclear devices both at their ports of origin and their destination. It also includes related instruments, technologies and program strategies worldwide, as well as the regulatory aspects.

### **9. Safety, Security and Safeguards - Non-specified Abstracts**

#### **9.0 Safety, Security and Safeguards - Posters**

##### **9.1 Worldwide Management of Spent and Disused Radioactive Sealed Sources**

This topic accepts abstracts on all aspects of the safe and secure management of spent, disused and orphaned radioactive sources. There is considerable environmental, safety and health benefit to the proper management of spent and disused radioactive sources, and the discovery of and proper management of orphan sources. Due to the long-lived nature of some of these sources, they cannot be disposed of in near-surface repositories. A number of initiatives have been undertaken by national and international organizations to ensure better tracking and control of spent or disused, known and orphaned sources, to safely condition and store them, and to establish proper disposal sites or to recycle and reduce its threat for radiological dispersion devices.

#### **Topic Sponsor and Organizer:**

Hugh Abbott, Consultant, V: +44 (77) 330-02167, Email: hughabbott@abnc.co.uk

##### **9.2 NPP Renaissance; Fuel Reprocessing and Nuclear/Radiological Security – Does the Next Generation Nuclear Power Plant and Proposed Reprocessing Facility Meet Terrorists Threats?**

This topic accepts abstracts on safety and security issues regarding the next generation of NPPs and proposed fuel recycling/reprocessing facilities and post September 11, 2001 threats. Of particular interest are safety and security abstracts on waste, Special Nuclear Material (SNM), and SNM management, and post 9/11 imposed security requirement impacts on design and operations.

#### **Topic Sponsor and Organizer:**

K.D. Auclair, K.D. Auclair and Associates, V: +1 (360) 609-0627, Email: kdaclair@aol.com

##### **9.3 Radiological Dispersion Devices– and other Nuclear Weapons of Mass Destruction: Detection, Response, Decontamination and Recovery.**

This topic accepts abstracts on the determination of an affected zone, the recovery process and procedures and cleanup methodologies from those incidents that involve radioactive material dispersion. Abstracts that address large scale (fission/fusion) and mixed/hybrid device incident recovery will also be considered. This topic will also focus on the National Response Framework flow down, including critical aspects of data sharing, data analysis, and command and control aspects of an event response, including information dissemination to the public in such an event.

**Topic Sponsor and Organizer:**

K.D. Auclair, K.D. Auclair and Associates, V: +1 (360) 609-0627, Email: kdaclair@aol.com

**9.4 Advances in Nuclear Safety Management**

This topic accepts abstracts on the full range of nuclear safety management with a particular emphasis on methods and processes to improve safety performance, prevent accidents, and reduce the overall risk of injuries, exposure, damage, or shutdowns for both the commercial and governmental activities and programs involving nuclear materials. Abstracts are encouraged that discuss alternative methods of maintaining a high awareness of safety and a highly incentivized workforce. In addition, abstracts that discuss specific unsafe occurrences and the associated corrective actions that would be applicable to the broad range of activities undertaken by participants in the nuclear waste management business are solicited. Additionally discussions of changes in safety standards and measurement methods could be presented under this topic.

**Topic Sponsor and Organizer:**

Christopher Timm, PECOS Mgmt Services, V: +1 (505) 323-8355, Email: ctimm@pecosmanagement.com

**Additional Organizer:**

Judith D. Connell, Fluor Hanford, V: +1 (509) 376-6808, Email: Judith\_connell@rl.gov

***Restricted (R) Topics for Abstracts and Speakers Requested Solely by the Organizers*****R9.1 Panel: Consequence Management of a “Radiological Dispersion Device”**

This topic focuses on Consequence Management of a “Radiological Dispersion Device” event with a panel and tabletop exercise. The panel will respond to a “simulated” event to demonstrate response, recovery and decontamination approach. The US National Response Plan (NRP) was released in 2005. Personnel that handle and manage radioactive materials and people that work in nuclear facilities need to be aware of the NRP. Cities, local communities, public sector and federal entities all have a responsibility to detect radioactive materials that are uncontrolled to develop a plan to respond to release of radioactive materials by terrorists and a process for recovering (remediating and decontaminating) from its release.

**Topic Sponsor and Organizer:**

K.D. Auclair, K.D. Auclair and Associates, V: +1 (360) 609-0627, Email: kdaclair@aol.com

**R9.2 Panel: "Safety, a Business Imperative: A Holistic Approach to Safety and a Strong Safety Culture."**

This topic focuses on Safety as a Business Imperative. Regardless of the state of the economy, safety must be a business imperative. Yet safety is often an elusive element of processes and operations that can be easily sacrificed without the proper understanding and attention. This two-part panel will first discuss national trends in safety, health, and sustainability from a global perspective. Executives from industry, labor, OSHA, the US DOE, and prime government contractors will discuss current health and safety programs and pending changes. The second part of the discussion will focus on discrete ongoing programs geared to achieving “zero accidents or incidents.” Panelists will represent training professionals, labor safety representatives, the US DOE, and contractors. Each sub-panel will be followed by a question & answer period.

**Topic Sponsor and Organizer:**

Judith D. Connell, Fluor Hanford, V: +1 (509) 376-6808, Email: Judith\_Connell@rl.gov

**Additional Organizer:**

Joe Yanek, Fluor Government Group, V: +1- (864) 281-6282, Email: Joe.Yanek@fluor.com

**10 –MISCELLANEOUS: UNASSIGNED ABSTRACTS & NON-PAPER POSTER TOPIC (MISC)**

Gary Benda, WM2011 PAC Chair, V: +1 (803) 345-2170, Email: gbenda@wmarizona.org

Linda Lehman, WM2011 Deputy PAC Chair, V: +1 (612) 867-9725, Email: LLehman@wmarizona.org

This Track serves two independent miscellaneous functions (MISC). First, authors unsure of the best topic number can assign their abstract to Track 10 where it will be reviewed and reassigned by the WM2011 PAC Chair to the appropriate topic. The second function is to assimilate late abstracts for the only WM2011 poster topic (10.0) besides the Student Poster topic (1.1) that doesn't require a full paper. It will also accept abstracts where the authors do not want to prepare a paper or are delinquent in meeting the deadlines. All other poster topics will require an accompanying paper.

## 10. Miscellaneous and Non-specified Abstracts Pending Topic or Track Assignment

This topic is for unassigned abstracts if the author cannot locate a specific topic number or a Track that matches his/her presentation. Abstracts assigned to this topic will be re-assigned by the PAC Chair to another Track based on abstract review, historical information and WM2011 proposed topics.

### Topic Sponsor and Organizer:

Gary Benda, WM2011 PAC Chair, V: +1 (803) 345-2170, Email: gbenda@wmarizona.org

### 10.0 Non-Paper Poster Topic for Emerging Issues and Late Abstracts

This topic accepts abstracts for the non-paper, poster topic held on Wednesday afternoon of WM2011. Authors must clearly mark the abstract as a “non-paper, poster topic” or the abstract will be assigned to one of the other nine Tracks’ Poster Topic. Abstracts will be accepted in topic 10.0 until Friday, January 14, 2011. Any abstract or paper in the other nine tracks where the author may have missed the delivery deadlines may also be re-assigned to this non-paper, poster topic at the discretion of the affected Topic Sponsor.

*For more information or clarification on any topic contact either the listed Topic Sponsor, the Topic Organizers, the Track Co-Chairs, or Gary Benda, the PAC Chair: V: +1 (803) 345-2170, Email: gbenda@wmarizona.org or GBenda\_USE@hotmail.com.*

**Attached are approved acronyms that can be used for WM2011 abstracts, papers, posters and PowerPoint presentations.**

<b>WM2011 Approved Acronyms</b>	<b>DNFSB</b> Defense Nuclear Facility Safety Board	<b>ICRP</b> International Commission on Radiological Protection
<i>* Acronyms are US unless noted otherwise</i>	<b>DOD</b> United States Department of Defense	<b>IFSOU</b> International Forum on Sustainable Options for Uranium Production
<b>ACRS</b> Advisory Committee on Reactor Safety	<b>DOE</b> United States Department of Energy	<b>ILW</b> Intermediate Level Radioactive Waste
<b>AEA</b> Atomic Energy Agency or the Atomic Energy Act of 1954	<b>DOT</b> United States Dept of Transportation	<b>INL</b> Idaho National Laboratory
<b>AECL</b> Atomic Energy of Canada Limited	<b>DU</b> Depleted Uranium	<b>IPAC</b> International Program Advisory Committee
<b>AFR</b> Away-From-Reactor Storage	<b>DWPF</b> Defense Waste Processing Facility	<b>IPSN</b> Institut de Protection et de Surete (France)
<b>ALARA</b> As Low As Reasonably Achievable	<b>EC</b> European Commission	<b>JAEA</b> Japan Atomic Energy Agency (Japan)
<b>ANDRA</b> Agence nationale pour la gestion des déchets radioactifs (France)	<b>EDF</b> Electricite’ de France (France)	<b>KAERI</b> Korea Atomic Energy Research Institute (Korea)
<b>ANL</b> Argonne National Laboratory	<b>EIS</b> Environmental Impact Statement	<b>LAW</b> Low-Activity Radioactive Waste
<b>ANS</b> American Nuclear Society	<b>EM</b> Environmental Management	<b>LANL</b> Los Alamos National Laboratory
<b>ARM</b> Accelerator-Produced Radioactive Material	<b>ENEA</b> National Agency for New Technologies, Energy and Environment (Italy)	<b>LBL</b> Lawrence Berkeley National Laboratory
<b>ASME</b> American Society of Mechanical Engineers	<b>EPA</b> US Environmental Protection Agency	<b>LEU</b> Low Enriched Uranium
<b>BNL</b> Brookhaven National Laboratory	<b>EPRI</b> Electric Power Research Institute	<b>LL/ILW</b> Low- and Intermediate-Level Radioactive Waste
<b>BWR</b> Boiling Water Reactor	<b>ER</b> Environmental Remediation	<b>LLNL</b> Lawrence Livermore National Laboratory
<b>CE&amp;T</b> Public Communication, Participation, Education & Training	<b>ES &amp; H</b> Environment, Safety & Health	<b>LLRW/LLW</b> Low Level Radioactive Waste
<b>CEA</b> Commissariat a l’Energie Atomique (France)	<b>FUSRAP</b> Formerly Utilized Sites Remedial Action Program	<b>LSA</b> Low Specific Radioactive Activity
<b>CERCLA</b> Comprehensive Environmental Response, Compensation and Liability Act	<b>GAO</b> United States Government Accountability Office	<b>LWR</b> Light-Water Reactor
<b>CFR</b> Code of Federal Regulations	<b>GIS</b> Geographical Information System	<b>M&amp;I</b> Management & Integration
<b>CH-TRU</b> Contact-Handled Transuranic Radioactive Waste	<b>GNEP</b> Global Nuclear Energy Partnership	<b>M&amp;O</b> Management & Operation
<b>CPP</b> Crosscutting Policies & Programs	<b>GTCC</b> Greater Than Class C Low-Level Radioactive Waste	<b>MRS</b> Monitored Retrievable Storage
<b>D&amp;D</b> Decontamination & Decommissioning	<b>H&amp;S</b> Health and Safety	<b>MW</b> Mixed Hazardous and Radioactive Wastes
<b>DAW</b> Dry Activated Waste	<b>HEPA</b> High Efficiency Particulate Air	<b>NAGRA</b> National Cooperative for the Disposal of Radioactive Waste (Switzerland)
<b>DCS</b> Dry Container Storage	<b>HEU</b> Highly Enriched Uranium	
	<b>HLW</b> High Level Radioactive Waste	
	<b>IAEA</b> International Atomic Energy Agency (Austria)	

**NCRP** National Council on Radiation Protection  
**NDA** Non-Detectable Activity or Nuclear Decommissioning Authority (UK)  
**NDAA** National Defense Authorization Act of 2005  
**NEA** Nuclear Energy Agency (France)  
**NEI** Nuclear Energy Institute  
**NEPA** National Environmental Policy Act of 1969  
**NFDI** National Facility Disposition Initiative  
**NNSA** National Nuclear Security Administration  
**NORM** Naturally Occurring Radioactive Material  
**NPP** Nuclear Power Plant  
**NRC** US Nuclear Regulatory Commission  
**NTS** Nevada Test Site  
**NWTRB** Nuclear Waste Technical Review Board  
**NWPA** Nuclear Waste Policy Act of 1982  
**NWPAA** Nuclear Waste Policy Amendments Act of 1987  
**OCRWM** Office of Civilian Radioactive Waste Management  
**OECD** Organization for Economic Cooperation & Development (France)  
**ORNL** Oak Ridge National Laboratory  
**PAC** Program Advisory Committee  
**PCC** Phoenix Convention Center  
**PNNL** Pacific Northwest National Laboratory  
**PRA** Probabilistic Risk Analysis  
**PWR** Pressurized Water Reactor  
**QA** Quality Assurance  
**QAPP** Quality Assurance Program Plan  
**QC** Quality Control  
**R&D** Research and Development  
**RCRA** Resource Conservation and Recovery Act of 1976  
**RDD** Radiological Dispersion Devices  
**RH-TRU** Remote-Handled Transuranic Radioactive Waste  
**ROC** Republic of China  
**RPV** Reactor Pressure Vessel  
**SFEN** Société Française d'Énergie Nucléaire  
**SKB** Swedish Nuclear Fuel and Waste Management Company  
**SNF** Spent Nuclear Fuel  
**SNL** Sandia National Laboratories  
**SNM** Special Nuclear Material  
**SRS** Savannah River Site  
**SRW** Solid Radioactive Waste  
**SS&S** Security, Safety, & Safeguards  
**TENORM** Technologically-Enhanced Naturally Occurring Radioactive Material  
**TRU** Transuranic (elements with atomic number > than 92)  
**TRUPACT** Transuranic Waste Package Transporter  
**UK** United Kingdom  
**US/USA** United States of America  
**US ACE** US Army Corps of Engineers  
**UNF** Used Nuclear Fuel  
**WAC** Waste Acceptance Criteria  
**WD** Waste Determination  
**WERC** Waste-management Education & Research Consortium  
**WIPP** Waste Isolation Pilot Plant  
**WIR** Waste Incidental to Reprocessing  
**WM** Waste Management  
**WMS** Waste Management Symposia, Inc.  
**WRAP** Waste Receiving and Processing  
**WS** Wet Storage  
**YM** Yucca Mountain