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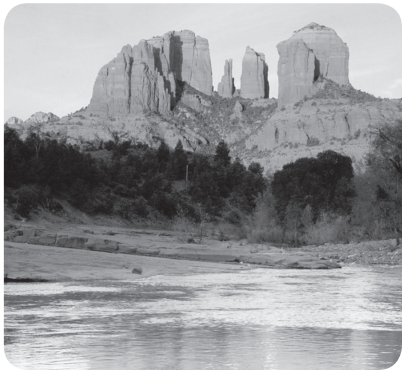
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# CALL FOR ABSTRACTS

WM2011 Theme:  
Global Achievements and Challenges in Waste Management

**February 27 –  
March 3, 2011**  
PHOENIX CONVENTION CENTER  
PHOENIX, ARIZONA  
**520-696-0399**  
**[www.wmsym.org](http://www.wmsym.org)**



NON-PROFIT ORGANIZATION DEDICATED  
TO EDUCATION AND OPPORTUNITY



# WM SYMPOSIA

Global Achievements and Challenges in Waste Management

**February 27 – March 3, 2011**

**Phoenix Convention Center, Phoenix, Arizona**

**[www.wmsym.org](http://www.wmsym.org)**

The annual Waste Management Conference, presented by WM Symposia (WMS), is widely regarded as the premier international conference for the management of radioactive material and related topics. WMS is a non-profit organization dedicated to education and opportunity in waste management. It was founded to provide a forum for discussing and seeking cost-effective and environmentally responsible solutions to the safe management and disposition of radioactive waste and radioactive materials.

The conference is organized in cooperation with the World Nuclear Association, the US Department of Energy, the US Regulatory Commission, the US Environmental Protection Agency, the US Department of Defense, and the International Atomic Energy Agency. Sponsoring organizations include American Nuclear Society; American Society of Mechanical Engineers; OECD – Organisation for Economic Co-operation and Development; Nuclear Energy Agency; The Nuclear Institute; Roy G. Post Foundation; Société Française d'Energie Nucléaire; and Waste Management Education and Research Consortium.

WM2011 will include papers describing research, development and operational experience over the complete spectrum of nuclear waste activities. Proposed topics are categorized into general Tracks (see listing in this document). More detailed information on topics and subtopics, as well as session organizers contact names, can be found at <http://www.wmsym.org>. Tracks 2, 3 and 4 pertain to specific waste type issues. Topics that relate to several waste types are included in Tracks 1, 5, 6, 7, 8 and 9. Session topics include both national and multinational subjects, unless stated otherwise. If the listed topics are too restrictive, submit the abstract under the main Track numbers, 1 – 9. If you cannot place the abstract within Tracks 1 – 9, then submit the abstract to topic 10 and it will be assigned to one of the 9 Tracks by WMS.

Abstracts are to be submitted online at [www.wmsym.org](http://www.wmsym.org) by August 13, 2010. Abstracts should be between **400–800 words** and comply with the criteria stated below. Results have shown that brief abstracts that fully and effectively convey the substance and their importance have the highest ranking. Background information irrelevant to an abstract's merits may dilute the substance and lower the ranking. The review criteria on the "Abstract Rating Form" for programmatic and technical presentations are posted on the WM website [www.wmsym.org](http://www.wmsym.org) as a guide for authors, recognizing that not all criteria fit all abstracts. Insufficient information for the reviewers may result in session misplacement, lower ranking or abstract rejection.

One contact should be designated to represent the abstract, draft, final paper and collect the copyright forms for all authors. The designated author/contact will receive all email correspondence related to the paper and the conference. Also designate the presenter which will be bolded in the printed programs if the abstract is accepted. Potential authors should not submit more than two abstracts for consideration.

Upon submission, abstracts will be made available on the WM website with restricted access given to Program Advisory Committee (PAC) members and other volunteers. The PAC members will critically review and rank each abstract according to the acceptance criteria. Abstracts submitted after the due date or not meeting the acceptance criteria may not be approved for WM2011. Track Co-Chairs, with the advice of the abstract reviewers, will rank and assign approved abstracts to an oral or poster session. The criteria for determining conference placement are designed to ensure that each abstract is ranked and assigned to the best Track/Session for its content, format and anticipated audience interaction.

Upon approval of the abstract, a complete draft paper must be submitted for review for both oral and poster presentations by November 12, 2010. Papers must be revised, if requested, according to the designated paper reviewer's instructions and submitted with all copyright forms by January 13, 2011. Approved oral and poster papers will be published on a CD-ROM and on the WM website after the WM2011 conference. The CD-ROM will be distributed to all paying registrants of WM2011. Papers that are either not revised as required by the designated paper reviewer, missing copyright forms from any author/co-author, or not presented at the WM2011 conference will not be published on the final conference proceedings.

## LETTER OF INVITATION / VISA REQUESTS

Should you require a Letter of Invitation / Request for Visa from WM Symposia; please email [mary@wmarizona.org](mailto:mary@wmarizona.org) by November 12, 2010 with your full name, abstract #, address, country and passport #. A letter of invitation with the conference dates and location will be signed by the Managing Director and sent to your attention in PDF format by December 1, 2010 to ensure ample time to secure a Visa for entry into the US. For more information on securing a Visa to attend the WM2011 conference, please visit <http://www.unitedstatesvisas.gov/index.html>.

## REQUEST FOR FINANCIAL AID

All Speakers and authors attending are required to register and pay registration fees. Should you wish to request financial aid to participate as an author / attendee for the WM2011 conference; please email [mary@wmarizona.org](mailto:mary@wmarizona.org) by November 12, 2010 with your full name, abstract #, address, country and financial request. This is the same day that your draft paper is due. All deadlines for authors must be met to be eligible for financial aid. Please note that the WM Symposia, Inc. does not offer financial aid to cover travel costs. A limited number of requests are granted for each conference and are reviewed by the Managing Director and WMS Board for approval by December 1, 2010. Recipients will be notified by email by December 15th at the latest to ensure time to secure travel arrangements before the Early Bird discount deadline for registration. Financial aid is given onsite at the conference, not prior to – attendees are responsible for their own transportation costs.

## THURSDAY/FRIDAY TOPICAL WORKSHOPS

Besides the WM2011 conference, WMS will include a topical workshop on "Commercial Low-Level Waste (LLW) Disposal Performance Assessment, the Safety Case, and Long-Term Monitoring." This workshop will be held, in the afternoon, on Thursday, March 3, 2011. The next day, Friday, March 4, there will be a "Joint Public Federal Workshop" of the US DOE & US NRC to address DOE Order 435.1 revision and update and the NRC initiative to risk-inform 10 CFR Part 61 waste classification scheme.

The Thursday topical workshop will focus on common approaches, methods, and tools used in performance assessment to demonstrate compliance with dose/risk criteria for LLW disposal facilities. Discussions will also include the International approach regarding use of the safety case concept for LLW disposal facilities, and IAEA activities pertaining to the project on Practical Illustration and Use of the Safety Case Concept in the Management of Near-Surface Disposal (PRISM). LLW Long-term monitoring aspects will also be addressed. Additional information on these two workshops will be available on our web site in October.

## SUBMISSION DATE DETAILS

August 13, 2010	Abstract Submission Deadline
October 7, 2010	Authors Notified of Acceptance
November 12, 2010	Full-length Draft Papers Due
December 3, 2010	Reviewer Comments to Authors
January 13, 2011	Final Full-Length, Approved Papers Due

## TOPIC LISTING – WM2011

Listed below are the proposed topics for the 2011 Waste Management 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)**

**Track 2 High-Level Radioactive Wastes, Spent Nuclear Fuel/Used Nuclear Fuel and Long-Lived Alpha/Transuranic Radioactive Waste (HLW)**

**Track 3 Low-Level, Intermediate Level, Mixed Waste, NORM, & TENORM (LLW)**

**Track 4 Nuclear Power Plant Waste & On-Site Spent Nuclear Fuel Management (NPP)**

**Track 5 Packaging and Transportation (PAT)**

**Track 6 Decontamination & Decommissioning (D&D)**

**Track 7 Environmental Remediation (ER)**

**Track 8 Public Communication, Participation, Education & Training (CE&T)**

**Track 9 Safety, Security, & Safeguards (SS&S)**

**Track 10 Miscellaneous: Unassigned & Late Abstracts, & Non-Paper Posters (MISC)**

Detailed information on each topic is provided by the WMS Topic Listing Report available under the Forms Tab on the WMS website. 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  
 Linda Lehman, WM2011 Deputy PAC Chair, V: +1 (612) 867-9725, Email: LLehman@wmarizona.org

## 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 (1925) 80-2886, 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**
- 1.2 Worldwide Perspectives of Radioactive Waste Management – Challenges and Solutions**
- 1.3 Worldwide Waste Management Regulatory and Oversight Crosscutting Programs: An Update**
- 1.4 Performance Assessment of Geological Disposal Systems**
- 1.5 Crosscutting Filtration Systems in the Nuclear Industry**
- 1.6 Project Management Improvements–Planning through Completion–Scope, Cost, & Schedule Control**

## 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– (505) 234-7213; Email: roger.nelson@wipp.ws  
 Terri Fellingner, SRR, (Co-Chair), V: +1– (803) 208-6471, 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**
- 2.2 Storage and Retrieval of Spent/Used Nuclear Fuel**
- 2.3 Storage and Retrieval of HLW**
- 2.4 Storage and Retrieval of TRU**
- 2.5 Storage and Retrieval of Other Non-LLW Long-Lived Radioactive Materials**
- 2.6 Storage and Retrieval of Orphan Fuels**

- 2.7 Reprocessing/Recycling and Separation of HLW, SNF/UNF and Long-lived Alpha/TRU**
- 2.8 Stabilization/Immobilization of HLW, SNF/UNF and Long-lived Alpha/TRU**
- 2.9 Transmutation and Other Topics Involving HLW, SNF/UNF and Long-lived Alpha/TRU**
- 2.10 Near-Surface Disposal of HLW, SNF/UNF and Long-lived Alpha/TRU**
- 2.11 Deep Disposal of HLW, SNF/UNF and Long-lived Alpha/TRU**
- 2.12 Closure of HLW, SNF/UNF and Long-lived Alpha/TRU Facilities**

### **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**
- 3.2 Recent Changes Among LLW, ILW, MW, NORM and TENORM Classification and Disposal Regulations**
- 3.3 Pollution Prevention/Waste Minimization for LLW, ILW, MW, NORM and TENORM**
- 3.4 Waste Characterization for LLW, ILW, MW, NORM and TENORM**
- 3.5 Emerging Treatment Technologies for LLW, ILW, MW, NORM and TENORM**
- 3.6 Operating Experience in the Treatment and Storage of LLW, ILW, MW, NORM & TENORM**
- 3.7 Waste Certification, Acceptance and Disposal for LLW, ILW, MW, NORM and TENORM**
- 3.8 Performance of Disposal Systems, Facilities and Sites for LLW, ILW, MW, NORM and TENORM**
- 3.9 The Uranium Industry - Current Topics and Issues**
- 3.10 Selected Key Topics in US Commercial LLW Management**

### **4 - NUCLEAR POWER PLANT (NPP) WASTE MANAGEMENT**

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**
- 4.2 Management of Nuclear Power Plant Liquid and Wet Waste**
- 4.3 Nuclear Power Plant Material Characterization and Onsite SNF/UNF Storage**

### **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**
- 5.2 Radioactive Material Packaging and Transportation Regulatory Issues**
- 5.3 The Safe Transport of Radioactive Materials Within and Between Countries**
- 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**

### **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: afreitag@roe.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)**
- 6.2 D&D of US DOE Facilities**
- 6.3 D&D of Nuclear Power Plants**
- 6.4 Waste Optimization/Minimization During D&D**
- 6.5 Application of Innovative D&D Technologies**
- 6.6 Accelerated Deactivation and Decommissioning of Facilities**



## 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) 483-4370,  
Email: eevered@terranearpmc.com

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**
- 7.2 Technical Innovations in Environmental Remediation and Site Closure**
- 7.3 Innovative Field Monitoring for Environmental Remediation**
- 7.4 ER Pre-Closure Challenges – Using Risk Data and Considering Future Land Use**
- 7.5 ER Post Closure Challenges and Long Term Stewardship/ Legacy Management**
- 7.6 US – Formerly Utilized Sites Remedial Action Program (FUSRAP) and Other US Army Corp of Engineers Projects**
- 7.7 Featured 2011 ER Technical Challenge: In-situ Stabilization of Radionuclides and Metals**
- 7.8 Lessons Learned in Environmental Remediation Projects in the UK**
- 7.9 Groundwater Remediation Projects**
- 7.10 Deep Vadose Zone Characterization and Remediation Technologies**

## 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, SRNS, V: +1 (803) 507-1310,  
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**
- 8.2 Engaging Citizens – Lessons Learned From Around the World**
- 8.3 Information Management: Retrieval And Evaluation Of Historical Data**

- 8.4 The Citizen Voice – Impacting the Nuclear Renaissance Through Public Involvement**
- 8.5 Visitor Centers and Other Public-Education Tools**
- 8.6 Information Communication Technology, Knowledge Management, and Other Approaches for Sharing Environmental/WM Data, Cleanup Progress, and Preparedness Planning**

## 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**
- 9.2 NPP Renaissance; Fuel Reprocessing and Nuclear/Radiological Security – Does the Next Generation Nuclear Power Plant and Proposed Reprocessing Facility Meet Terrorists Threats?**
- 9.3 Radiological Dispersion Devices– and other Nuclear Weapons of Mass Destruction: Detection, Response, Decontamination and Recovery**
- 9.4 Advances in Nuclear Safety Management**

## 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 functions. 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. All other poster topics will require an accompanying paper.

- 10. Miscellaneous and Non-specified Abstracts Pending Topic or Track Assignment**
- 10.0 Non-Paper Poster Topic for Emerging Issues and Late Abstracts**

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

## WM2011 PAC CHAIR

Gary Benda, Cavanagh Services

## WM2011 DEPUTY PAC CHAIR

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Mark Matthews – Consultant  
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Olaf Oldiges, GNS mbh\*  
Colleen Owens – DeNuke Services, Inc.  
Fred Sheil – Sellafield Ltd\*  
Wolfgang Steinwarz – Siempelkamp\* Nukleartechnik GmbH  
Donald Wood – GaeaTech Services  
Richard Yoshimura – SNL

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Edward Bentz, E J Bentz & Associates  
Robert Berry, Foxfire Scientific\*  
Ned Bibler, SRNL  
Jennifer Biedscheid, Washington TRU Solutions, LLC  
Dale Bignell, Washington Closure Hanford  
Dick Blauvelt, Navarro Research and Engineering, Inc.  
Elizabeth Bowers, US DOE  
Frazier Bronson, Canberra Industries Inc – AREVA Group  
Steven Brown, SHB Inc.  
Larry Camper, US NRC  
Chris Chadwick, Porvair Filtration Group, Microfiltrex Division\*  
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George Dials, B&W Technical Svcs Group  
Paul Dickman, US NRC  
David Eaton, CH2M-WG Idaho, LLC  
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James Fiore, Consultant  
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Sal Golub, US DOE, Office of Nuclear Reactor Technologies  
John Greeves, Talisman International  
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