

Call For Abstracts



WM'04 —

“Global Accomplishments in Environmental and Radioactive Waste Management: Cost Effectiveness, Risk Reduction and Technology Implementation”

**February 29 - March 4, 2004
Tucson, Arizona**

**Additional topics and workshops are shown on the
WM'04 homepage at www.wmsym.org/wmsym**

Submit this form *online* when submitting your abstract. If mailing, please attach this form to the submitted abstract.

TOPIC NUMBER (From topic list on homepage or from this document—*must be supplied for consideration*): _____

I would prefer to participate in a poster session yes no | Have you communicated with a Session Organizer yes no
If yes, with whom? _____

TITLE OF ABSTRACT: _____

AUTHORS: _____

Permission to publish on the WM'04 homepage (with password access limited for review purposes) yes no
I understand that acceptance of this paper for presentation requires a draft paper for review by Nov. 21, 2003 and an author-provided script (in prescribed format) by January 23, 2004. If your paper is not presented at the conference, it will not be published.

(Please type or Print)

Contact Author (Circle one): Mr. Ms.

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Call for Abstracts

WM'04 will be held February 29 - March 4, 2004 at the Tucson Convention Center, Tucson, Arizona.

Welcome to WM'04, the 30th Waste Management Symposium—the premier annual conference of the nuclear waste management industry! You are cordially invited to come and join us at this event. The conference is organized by WM Symposia, Inc., an Arizona non-profit corporation, and is hosted by the University of Arizona. Sponsoring organizations include the American Nuclear Society, the American Society of Mechanical Engineers, New Mexico State University Waste-Management Education and Research Consortium (WERC), and NEA/OECD. The conference is also organized in cooperation with the U.S. Department of Energy and International Atomic Energy Agency. WM'04 will include invited and contributed papers describing research, development and operational experience over the complete spectrum of nuclear waste activities. Solicited papers and presentations on global energy security will also be included. Authors with an interest in this topic are directed to topic 1.9. Proposed session topics are categorized into Tracks (see next page). **General track titles and topics are found in this document; more detailed topic information can be found at <http://www.wmsym.org/wmsym>.** Tracks 2, 3, 4, 5, and 6 include specific waste type issues. Topics that may apply to several waste types are included in Tracks 1, 7, 8, 9, 10 and 11. Session topics include both national and multinational subjects, unless stated otherwise.

Submitted abstracts must: 1) include a descriptive title, 2) summarize the work conducted including the results, and 3) briefly describe the importance of the work (what problem it solves). Abstracts should be long enough to convey the substance of your proposed paper and meet the stated criteria. The conference review criteria "Abstract Rating Form" will be posted on the web for author information. If the listed topics are too restrictive, submit the abstract under the main track number 1-10. If you cannot place the abstract within tracks 1-10 then submit to track 11 (General). The fully completed attached form must accompany the abstract for it to be considered. Upon receipt of author approval, abstracts will be made available on the WWW on a restricted access basis to Program Advisory Committee (PAC) members and Session Organizers two weeks prior to the Abstract Review. Abstracts will not be placed on the WWW if the author objects, and such objection will not influence the acceptance of the abstract. The PAC will critically review each abstract to determine if it meets the criteria of technical content and significance. Abstracts not meeting the above criteria or submitted after the due date may not be considered by the PAC. Approved abstracts will be assigned to either an oral, poster or workshop session by the Track Chairs with the advice of the PAC Chair. The criteria for paper assignment within the conference program are intended to assure that each paper is presented in the method of presentation best suited for its content, format and anticipated audience interaction.

Complete papers are required for both poster and oral presentations. Concerns about the quality of some papers, often attributed to inadequate preparation, led to our **current policy of requiring that full papers be written and reviewed before presentation.** The full papers for both poster and oral presentations will be published on CD-ROM and on the WWW. Abstracts that are accepted require that you present the paper at the conference. **The paper will not be published if it is not presented.**

Abstracts should be from 1 to 2 pages in length, approximately 600 words. The abstract header should begin flush left and show the name of the conference, WM'04, the proposed topic number which best covers the abstract's content, and list the contact name, affiliation, phone, fax, and e-mail address. The paper title should follow two spaces below, centered in all caps. The authors and their affiliations should be typed one space below the paper title in title case. The text should begin two spaces under the authors' names and affiliations.

Interested contributors may submit extended abstracts via either 1) the electronic submittal form on the WM'04 homepage or E-mail to abstracts@wmsym.org. (You must include the information from the abstract submittal form along with your attachment) or 2) Mail in a 3 1/2" diskette and abstract submittal form. **Faxes will not be accepted.**

Abstract due by August 22, 2003



Authors Notified of Acceptance by September 29, 2003

Draft Full Papers Due November 21, 2003



Reviewer Comments to Author by December 12, 2003

Final Approved Papers Due January 23, 2004

Submit your abstracts on the homepage: www.wmsym.org/wmsym or E-mail your abstract to: abstracts@wmsym.org

For technical questions, please contact Gary Benda at: gbenda@wmsym.org or +1-(803)-345-2170

For non-technical questions, please contact Donna McComb at: dmccomb@laser-options.com or +1-(520)-292-5652

WM'04 Proposed Tracks & General Topics

1 - CROSSCUTTING POLICIES & PROGRAMS

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

- 1.0 Crosscutting Policies & Programs - Posters and Nonspecified Abstracts:
- 1.1 Global Perspectives of Radioactive Waste Management - Challenges and Solutions
- 1.2 Simulation Modeling of Waste Management Systems
- 1.3 Basic Environmental Science Issues for D&D, Restoration and Stewardship
- 1.4 Implementation of Multinational Storage and Disposal Facilities
- 1.5 WMS Sponsored Topical: Global Accomplishments in Environmental and Radioactive Waste Management
- 1.6 Radiological Dispersion Devices - Response and Cleanup
- 1.7 Developments in HEPA Filter Technology
- 1.8 Cross-Cutting Waste Management Regulatory and Oversight Programs
- 1.9 Global Energy Security

2 - HIGH-LEVEL WASTE (HLW) AND SPENT NUCLEAR FUEL (SNF)

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The high-level waste (HLW) and spent nuclear fuel (SNF) track encompasses the following topics: 1) All HLW and SNF operations from generation and storage through characterization, treatment and disposal; 2) Associated technology development and deployment; 3) International and domestic reprocessing strategies and technology; 4) Periodic progress updates oriented to specific DOE achievements in waste remediation and disposal activities, and 5) Crosscutting issues including interim and final disposal strategies for HLW and SNF including 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.

- 2.0 HLW and SNF - Posters and Nonspecified Abstracts
- 2.1 Accelerated HLW Cleanup -Technical Innovation and Developing Applicable Tech.
- 2.2 Yucca Mountain Update: HLW and SNF Disposal
- 2.3 HLW and SNF Treatment
- 2.4 Storage and Final Disposition of HLW and SNF
- 2.5 Vitrification Experience and Glass Characterization for HLW
- 2.6 Underground Research and Demonstration Facilities: An Update
- 2.7 Progress in Closure of HLW Storage Tanks
- 2.8 Waste Incidental to HLW Reprocessing - US Issues & Lessons Learned
- 2.9 US DOE HLW Risk Reduction Project
- 2.10 Decommissioning and Disposal of HLW Melters

3 - LOW-LEVEL (LLW), INTERMEDIATE LEVEL (ILW), MIXED (MW) AND HAZARDOUS WASTE (HW)

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The LLW/ILW/MW/HW track encompasses: 1) Operations from generation through treatment and disposal; 2) Technology development, demonstration, and deployment; and 3) Crosscutting issues including waste minimization, waste characterization and analysis, effluent monitoring, waste form and facility performance assessment, regulations and standards. 4) All types of facilities from hospitals, accelerators, research reactors, government facilities, disposal sites, etc.

- 3.0 LLW/ILW/MW/HW - Posters and Nonspecified Abstracts
- 3.1 Innovative Treatment Technologies for LLW/ILW/MW/HW
- 3.2 Operating Experience in the Treatment, and Storage of LLW/ILW/MW/HW
- 3.3 Programmatic, Regulatory and Statutory Issues and Solutions
- 3.4 Pollution Prevention/Waste Minimization for LLW/ILW/MW/HW
- 3.5 Waste Characterization for LLW/ILW/MW/HW
- 3.6 Waste Certification, Acceptance and Disposal for LLW/ILW/MW/HW
- 3.7 Experience with Long-Term Storage of LLW/ILW/MW/HW
- 3.8 Performance of Disposal Facilities for LLW/ILW/MW/HW
- 3.9 Management of Spent and Disused Radioactive Sealed Sources
- 3.10 Getting the LLW/ILW/ and MW Out of US DOE "Small Sites"

WM'04 Proposed Tracks and General Topics

Details of topics can be viewed at: www.wmsym.org

Reserved & Invited Topics are not listed in this Call for Abstracts but are on the web page topic listing

4 - NUCLEAR POWER PLANT (NPP) WASTE MANAGEMENT (Oper. and Decomm. WM and NPP Spent Fuel)

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This Nuclear Power Plant Waste Management Track encompasses characterization and minimization, treatment, packaging and management of operational and early on decommissioning wastes, and NPP spent fuel storage and management.

4.0 Nuclear Power Plant Waste Management - Posters & Nonspecified Abstracts

4.1 Nuclear Power Plant Waste Management Issues

4.2 Release of Material from Nuclear Power Plants

5 - TRANSURANIC (TRU) AND LONG-LIVED RADIONUCLIDE WM

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The TRU and long-lived radionuclide waste track encompasses: 1) All contact (CH)-TRU, remote handled (RH)-TRU, and long-lived radionuclide waste types, including orphan wastes of these types, from generation and storage through characterization, treatment, transportation, and disposal; 2) Associated technology development and deployment including mobile/modular characterization deployments at large quantity and small quantity sites; 3) Operational safety and security aspects of managing long-lived radioactive/TRU mixed wastes; 4) Legacy versus newly generated waste issues of these waste types, 5) Periodic progress updates on achievement of milestones at TRU disposal facilities and waste generating sites (U.S. and International), 6) Crosscutting issues at the Waste Isolation Pilot Plant (WIPP) and waste generating sites including the regulatory framework, e.g., the WIPP permit modifications, EPA compliance recertification, oversight, and TRUPACT II SAR revisions; and 7) Process enhancements for managing these waste types.

5.0 TRU and Long-Lived Radionuclide WM - Posters & Nonspecified Abstracts

5.1 TRU Waste Management Projects

5.2 Status and Plans at the US DOE WIPP

5.3 Lessons Learned from 5 Yrs. & 2,000 Shipments of TRU Waste to the USDOE WIPP

6 - SPECIAL WASTES, MIGRATION AND TENORM

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This Track covers waste types other than specified in the other Tracks (LLW, ILW, MW, TRU, HLW, etc.), emerging recycling or disposal technologies and regulatory developments for management of uranium or thorium byproducts or tailings, or Technologically Enhanced Naturally Occurring Radioactive Material (TENORM), and control of migration from and long term surveillance for remediated sites. This track may include hydrogeologic, geochemical, and other special aspects of radioactive waste management.

6.0 Special Wastes, Migration and TENORM - Posters & Nonspecified Abstracts

6.1 Contaminant Migration Assessment and Modeling

6.2 Regulation and Management of Very Low-Dose Radiating Materials

6.3 US - Formerly Utilized Sites Remedial Action Program (FUSRAP)

7 - PACKAGING AND TRANSPORTATION

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The Packaging and Transportation Track includes all activities and issues related to the safe, secure, and economical packaging and transportation of radioactive materials. High-level, transuranic, low-level, and mixed low-level waste; fresh and irradiated nuclear fuel; contaminated media and debris; isotopes and radioactive sources; and uranium hexafluoride are all of interest to this Track. Topic areas include: 1) Domestic and international regulatory activities, issues, and initiatives, 2) Packaging development and related issues, 3) Logistics and transportation operations, including large items from decommissioning, 4) Integrated planning and scheduling, 5) Status and issues for large shipping campaigns, and 6) Stakeholder and public interactions and issues.

7.0 Packaging and Transportation - Posters and All Oral Presentation Abstracts

8 - DECONTAMINATION & DECOMMISSIONING (D&D)

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This track includes all aspects of D&D from License Termination to Greenfield including Characterization, Decontamination, Dismantlement, Demolition, Waste Handling, Final Survey, and associated New Technology Development for both Government and Commercial Nuclear and Non-Nuclear Facilities in the US and internationally.

8.0 D&D - Posters and Nonspecified Abstracts

8.1 Decommissioning Financial and Program Strategies

8.2 Decommissioning and Lessons Learned, Nuclear (Non-Power) Facilities

8.3 DOE Facility Deactivation and Decommissioning - Moves to Early Risk Reduction

8.4 Nuclear Power Plant Deactivation and Decommissioning

8.5 D&D Perspectives in Clearance of Radioactive Materials for Release

8.6 Decontamination and Decommissioning Technology Development

8.7 The Management of Materials from the Decommissioning of Nuclear Power Plants

9 - ENVIRONMENTAL RESTORATION (ER)

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This track includes all activities associated with the assessment, cleanup, and closure of contaminated sites. The sessions 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; compliance monitoring; resolving regulatory issues that impact cleanup; aquifer and soil restoration; managing waste resulting from cleanup activities; remedial design and implementation; accelerating cleanup through technological or process improvements; closure; and legacy management/ long-term stewardship. Of particular interest for WM '04 are presentations on: accelerated cleanup and closure; worker safety; the results of transfer of site land or facilities to commercial entities for economic reuse; legacy management and long term stewardship implementation.

9.0 ER - Posters and Nonspecified Abstracts

9.1 ER Progress Toward Closure of Contaminated Sites

9.2 Long Term Stewardship and Legacy Management

9.3 Technical Innovations in Accelerating ER Site Closure

9.4 Innovative Field Monitoring for ER

9.5 US DOE Waste Disposal Solutions for ER Projects

10 - PUBLIC COMMUNICATION, PARTICIPATION, EDUCATION AND TRAINING

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Connie Callan, Univ. of New Mexico, V: +1-(505)-277-7750, netm@unm.edu

This track includes a broad range of social, environmental, policy, communication, and educational issues associated with waste management decision-making. The focus is on potentially affected interests, or stakeholders, who are outside the waste management professional field. Topics have typically covered public participation issues, communication techniques, education and training, socioeconomic and environmental impact analysis and mitigation. More recently, this topic area has discussed cultural issues (including tribal perspectives), equity (including environmental justice, intergenerational equity) risk perceptions and communications.

10.0 Public Comm., Participation, Ed. and Training - Posters and Nonspecified Abstracts

10.1 Assessing and Communicating "Risk"

10.2 Achieving Stakeholder Consensus for Openness and Transparency

10.3 Cultural, Community and Equity Issues in Waste Management

11 - GENERAL AND UNASSIGNED ABSTRACTS

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For WM'04, a crosscutting poster session has been added. The poster session will be held Wednesday afternoon/Thursday morning in the Galleria at the Tucson Convention Center. January 23, 2004 will be the extended deadline for acceptance of these abstracts, thus any abstracts received after the September Abstract Review meeting deadlines may be eligible for acceptance. In addition, a formal paper will not be required for presentations in this session. Presenters interested in this session should specify the desired topic when submitting their abstract for a poster-preferred presentation. All other Tracks may also transfer abstracts to this cross-cutting poster session.

11.1 Projects in Progress, including late breaking news and/or sharing the preliminary results of a new project.

11.2 Global Perspectives, including abstracts and posters where the written English language may be an impediment in preparing an acceptable paper for the proceedings

11.3 New Innovative Approaches/Products - including new commercial ideas or products of interest to the WM attendees

11.4 Past Successes and Lessons Learned - including topics that may have been presented at previous WM conferences.

11.5 WM Related Topics - including topics that relate to the other WM sessions.

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Future WM Dates

WM'05 . . . February 27 - March 3

WM'06 . . . February 26 - March 2

WM'07 . . . February 25 - March 1



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