

2008 International High-Level Radioactive Waste Management Conference



September 7 - 11, 2008 • Las Vegas, Nevada • The Riviera Hotel and Casino

"Steps Toward Reality for Safe Disposal"

CONFERENCE PURPOSE:

The conference is a forum for the discussion of the scientific, technical, social and regulatory aspects of the "back end" of the nuclear fuel cycle. These issues include waste generation, transportation, storage, treatment, disposal, and associated aspects (such as facility remediation, regulation, and stakeholder involvement). The conference is an opportunity for an exchange of information on current topics of interest among the international participants in nuclear-waste activities. The conference will appeal to an international audience as an opportunity to share information across programmatic, disciplinary, and international boundaries. Intended participants and audiences include personnel working on all aspects of irradiated fuel and HLW management such as: geologic waste-disposal systems, facility remediation systems, the governmental and private organizations using these systems, regulators, and those involved in scientific and societal issues related to policy questions for these systems. Conference participants are encouraged to focus their submissions (either as oral or poster presentations) on the theme of this conference.

SPONSOR:

American Nuclear Society, with cooperation from numerous professional and technical societies, national laboratories, commercial and federal organizations throughout the world.

PAPER ACCEPTANCE CRITERIA:

Papers are expected to contain descriptions of work that is new, significant, and relevant to the conference purposes. Both abstracts and full papers will be reviewed prior to acceptance. Submissions should contain new data and investigations in scientific or program areas that are of general interest, address problems of interdisciplinary significance, or include in-depth discussions of scientific and technical issues related to public-policy questions. Criteria for selection include originality of work, relevance of topic, validity of method, clarity and conciseness of communication, and adherence to the scientific method (if appropriate). Compliance with content and length guidelines (following) are also part of the acceptance requirements. Both abstracts and full papers must be submitted electronically to www.ans.org/meetings/ihlrm. Papers may be submitted for oral or poster presentation; papers may be designated for submission to a refereed journal. All submissions must be in English.

ELECTRONIC SUBMISSIONS:

To submit a paper electronically, please refer to the detailed instructions available on the Internet at: www.ans.org/meetings/ihlrm.

INSTRUCTIONS TO AUTHORS

FORMAT OF ABSTRACT FOR REVIEW:

1. Abstracts must be submitted electronically in ASCII text, HTML, Word, WordPerfect, and/or PDF (Adobe Acrobat) format.
2. Use SI units (with English units following in parenthesis, if desired). Exceptions are made for ev and barns.
3. List references numerically at the end of the abstract, and use numbers in the text, enclosed within brackets.
4. If using the ASCII text or HTML format, please include tables or figures in GIF or JPEG format. Also, please upload your original source document for use in the printed program, if available.

PLEASE NOTE:

- The title of your abstract will be used as the title of your presentation in the preliminary program.
- Authors of accepted papers will be expected to register for the conference.

ABSTRACT LENGTH:

1. Title Maximum - 10 words.
2. Text Minimum - 250 words.
3. Text Maximum - 500 words.
4. Figures and Tables - One figure and/or table maximum.

CONTENT:

The contents of the abstract must include the objectives of the study/investigation and the methodology used. It should also briefly describe the main findings and their potential applications. Sufficient information should be included for an independent reviewer to determine its suitability for the conference.

DEADLINE:

Your abstract must be submitted electronically no later than February 18, 2008, in order to ensure that it is included in the review process.

AUTHOR'S ORGANIZATIONAL APPROVAL:

- All internal reviews and organization approvals must be completed prior to submittal of the final paper.
- It is the responsibility of the author to protect proprietary information.

CALL FOR PAPERS – Abstract Deadline: February 18, 2008

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PAPER PREPARATION FOR PUBLICATION IN CONFERENCE PROCEEDINGS

IMPORTANT INFORMATION:

- Accepted papers will be included in the CD-ROM Proceedings that will be distributed at the beginning of the conference.
- After the full paper review is completed by the Technical Program Committee, authors of accepted papers will receive information for preparation of final papers in camera-ready format via email.
- Authors of accepted papers will be allowed 8 pages for publication at no charge. Authors who exceed the 8 page limit will be billed a per-page charge of \$150.
- All type and illustrations should appear within designated margins—dimensions are 7 in. (178 mm) by 9 in. (229 mm). We recommend 10-point type with 12 points of leading (spacing between lines). Use Times Roman typeface or an equivalent.
- Indent each paragraph 1/4 inch (use tab; do not use the space bar to indent). Single-space your text in two-column format. Your equations, figures, and tables do not need to comply with the two-column format. In other words, equations, figures, and tables may span the columns.
- Changes to accepted papers must be limited to revisions or changes requested by the Technical Program Committee.

IMPORTANT DATES:

- Abstract Deadline: February 18, 2008
- Notification to Authors: March 14, 2008
- Full Papers Due for Review: May 9, 2008
- Author Notification: June 13, 2008
- Final Paper Submittal*: July 18, 2008

*Full paper revisions must be submitted electronically to www.ans.org/meetings/ihlrwm. Full papers will be reviewed.

The ANS Scientific Publications Department may be contacted at the address and phone number below:

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SUBJECT CATEGORIES FOR ABSTRACTS:

1 Natural Systems

- 1.1 Techniques for Site Characterization
- 1.2 In-Situ Measurement of Properties and Their Scaling
- 1.3 Climatic Processes
- 1.4 Hydrologic, Chemical, Thermal, and Mechanical Processes
- 1.5 Seismic, Volcanic, and Tectonic Processes
- 1.6 Natural Analog Studies
- 1.7 Studies in Underground Research Facilities
- 1.8 Method for Synthesizing Geoscience Data

2 Engineered Systems

- 2.1 Surface Facilities
- 2.2 Underground Facilities
- 2.3 Waste Handling, Storage, and Emplacement
- 2.4 Waste Form Behavior
- 2.5 Waste Package Design, Closure, and Performance
- 2.6 Other Engineered Barriers Including Backfill and Drip Shields
- 2.7 Modeling of Near Field environment
- 2.8 Effects of Pre-Closure Ventilation on Thermo-Chemical Environment
- 2.9 Safety Analysis During Pre-Closure Period

3 Biosphere

- 3.1 Defining Site-Specific Biosphere Characteristics
- 3.2 Estimating Dose and Health Effects
- 3.3 Estimating Impact on Environment
- 3.4 Pathway Analysis and Dose Modeling
- 3.5 Exposure Scenarios

4 Total Repository System

- 4.1 Post-Closure Safety Assessment
- 4.2 Interface Between Subsystems
- 4.3 Modeling Near Field and Far Field Interactions

4 Total Repository System (continued)

- 4.4 Sensitivity Analyses
- 4.5 Data, Information, and Knowledge Management Systems
- 4.6 Definition, Preparation, and Documentation of a Safety Case
- 4.7 Uncertainty Management and Confidence Building
- 4.8 Regulatory Reviews of Safety Case
- 4.9 Performance Demonstration, Confirmation and Safety Research

5 Regulatory Topics

- 5.1 National and International Regulations and Guidance
- 5.2 Time Scales, Safety Measures, and Confidence Measures
- 5.3 Role of Regulatory Guidance
- 5.4 Safety Margins, Reasonable Expectation, Reasonable Assurance, and Statement of Confidence
- 5.5 Licensing Procedures
- 5.6 Quality Assurance, Quality Control, and Inspections

6 Institutional Topics

- 6.1 Techniques of Public Involvement
- 6.2 Risk Perception and Public Communications
- 6.3 Media Coverage
- 6.4 Public Outreach Programs
- 6.5 Institutional Issues in Site Selection
- 6.6 National Programs and Policies
- 6.7 Impact of Nuclear Renaissance on Waste Management Programs

7 Other Topics

- 7.1 Waste Transportation and Casks
- 7.2 Security, Safeguards, and Non-Proliferation
- 7.3 Retrievability and Reversibility
- 7.4 Multinational Cooperation in Waste Management
- 7.5 Advanced Fuels and Their Impacts on Disposal
- 7.6 Alternatives to Geologic Disposal
- 7.7 DOE Spent Nuclear Fuel and High Level Waste