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Loong Yong, Spectra Tech, Inc.

* = International PAC Members

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Wolfgang Steinwarz*, Siempelkamp Nukleartechnik GmbH
Roger Stigers, PPL Susquehanna

Mark Gilbertson, US DOE Liaison



WM Symposia
PO Box 27646
Tempe, AZ 85285-7646
USA
Address Service Requested



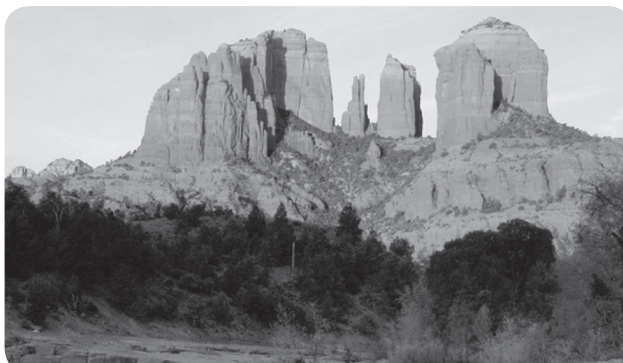
CALL FOR ABSTRACTS

Achieving Results through Technology and Innovation on a Global Scale

March 15-19, 2015

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Abstract Submission Due August 15, 2014

NON-PROFIT ORGANIZATION
DEDICATED TO EDUCATION AND
INFORMATION IN RADIOACTIVE
WASTE MANAGEMENT



WM2015 CONFERENCE

Achieving Results through Technology and Innovation on a Global Scale
Presented by WM Symposia, Inc. (WMS)

March 15–19, 2015
Phoenix Convention Center, Phoenix, Arizona
www.wmsym.org +1 480-557-0263

The WM Symposia Conference (WM2015) is the premier international conference for the safe and secure management of radioactive materials and related topics. Since 1974, it has been a forum for cost-effective and environmentally responsible solutions for the safe management and disposition of radioactive waste and radioactive materials.

Topics of interest include research, development and operational experience over the complete spectrum of nuclear waste activities. Topics are organized by tracks listed below. In addition, there will be invited panel and paper sessions such as a featured nation's session on France; the US DOE featured sites of Savannah River Site in South Carolina and the Nevada National Security Site (NNSS). There will also be special reserved sessions on Procurement and Contracting; Safety; Clean-up of Legacy Sites Worldwide; and IAEA Topics. The complete WM2015 Topic Listing is available at www.wmsym.org. The ten tracks are:

- Track 1 Crosscutting Policies and Programs
- Track 2 High-Level Radioactive Wastes, Spent Nuclear Fuel (SNF)/Used Nuclear Fuel (UNF) and Long-Lived Alpha/Transuranic Radioactive Waste
- Track 3 Low-Level, Intermediate Level, Mixed Waste, NORM & TENORM
- Track 4 Nuclear Power Plant Waste & Onsite SNF/UNF Management
- Track 5 Packaging and Transportation
- Track 6 Decontamination & Decommissioning
- Track 7 Environmental Remediation
- Track 8 Communications, Involvement, Education and Training
- Track 9 Special Topics including Safety, Security & Safeguards
- Track 10 Miscellaneous: Unassigned & Late Abstracts, Non-Paper Posters

When submitting an abstract, you must select the topic from the list of Tracks and Topic Numbers listed below that best corresponds to your presentation. Please note that WMS and the Program Advisory Committee (PAC) have the authority to re-categorize an abstract if an appropriate topic number is not selected.

1 - CROSSCUTTING POLICIES AND PROGRAMS

John Mathieson, UK NDA (Lead Co-Chair), V: 44-1925-802886, Email: johnmathieson@btinternet.com
John Coffman, ReNuke Services, Inc. (Co-Chair), V: 865-387-2468, Email: john@renuke.com
Angie Jones, AMEC (Co-Chair), V: 865-218-1033, Email: angie.jones@amec.com

This Track includes overall crosscutting policies and major programs. Similar topics that are not Track 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 crosscutting regulatory issues, contracting, legal aspects, permitting (licensing) and compliance activities, criteria and standards development, privatization issues, legislation, US Price-Anderson Act, Paris Conventions, enforcement agency and state issues (including multiparty agreements), interface, and other high level crosscutting issues that involve multiple waste types/programs or Tracks.

- 1. Crosscutting Policies and Programs - Non-specified Abstracts
- 1.0 Crosscutting Policies and Programs - 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
- 1.4 Management of Radioactive Waste and Possible Regulatory Changes Following a Nuclear Accident
- 1.5 Emerging Middle East Nuclear States' Status and Plans

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

Tom Brouns, Pacific Northwest National Laboratory (Lead Co-Chair), V: 509-372-6265, Email: tom.brouns@pnnl.gov
Keith Miller, National Nuclear Laboratory (Co-Chair), V: 44-0192-5289960, Email: keith.x.miller@nnl.co.uk
Harry Babad, Author & Consultant (Co-Chair), V: 509-375-0328, Email: hbabad@owt.com
Robert Jubin, Oak Ridge National Laboratory (Co-Chair), V: 865-574-4934, Email: jubinrt@ornl.gov
Roger Nelson, US DOE (Co-Chair), V: 575-234-7213, Email: Roger.Nelson@Wipp.Ws

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, deep geologic disposal and operating facility performance and risk assessment, and the impacts of directly associated regulations and standards.

- 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 Reprocessing/Recycling and Separation of HLW, SNF/UNF and Long-lived Alpha/TRU**
- 2.6 Future Alternate Fuel Cycle HLW Management**
- 2.7 Stabilization/Immobilization of HLW, SNF/UNF and Long-lived Alpha/TRU**
- 2.8 Transmutation and Other Topics Involving HLW, SNF/UNF and Long-lived Alpha/TRU**
- 2.9 Geologic Disposal of HLW, SNF/UNF and Long-lived Alpha/TRU**
- 2.10 Closure and Monitoring of HLW, SNF/UNF and Long-lived Alpha/TRU Facilities**
- 2.11 Records, Knowledge and Memory (RK&M) for Geologic Repositories of Nuclear Waste**

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

Colleen Owens, DeNuke Contracting Services, Inc. (Lead Co-Chair), V: 303-638-9283, Email: cowens@denuke.com
Gabriele Bandt, TÜV NORD EnSys Hannover (Co-Chair), V: 49-5119-861551, Email: gbandt@tuev-nord.de
Frazier Bronson, Canberra Industries Inc - AREVA Group (Co-Chair), V: 203-639-2345, Email: fbronson@canberra.com

The LLW/ILW Track Includes LLW, ILW, Very LLW, MW (radioactive & hazardous), Naturally Occurring Radioactive Material (NORM) and Technologically Enhanced NORM (TENORM). The 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 US NRC defined "Greater Than Class C - LLW," byproducts or tailings, NORM residues and waste, and US defined TENORM. This track also includes radioactive materials, articles and consumer products. (NPP operational waste is covered in Track 4. TRU and similar long-lived alpha waste is covered in Track 2).

- 3. LLW, ILW, MW, NORM, TENORM & Depleted Uranium - Non-specified Abstracts**
- 3.0 LLW, ILW, MW, NORM, TENORM & Depleted Uranium - Posters**
- 3.1 Regulatory & Programmatic Issues & Solutions for LLW/ILW, MW, NORM and TENORM & Depleted Uranium**
- 3.2 Improvement of Sustainability, Reuse and Recycling in Management of LLW, ILW, MW, NORM and TENORM**
- 3.3 Waste Characterization and Data Analysis for Management of LLW/ILW**
- 3.4 Emerging Treatment Technologies for Analysis for LLW/ILW**
- 3.5 Operating Experience in the Treatment and Storage for LLW/ILW**
- 3.6 Waste Certification, Acceptance and Disposal for LLW/ILW**
- 3.7 Performance Assessment of Disposal Systems, Facilities and Sites for LLW/ILW**
- 3.8 The Uranium Industry - Current Topics and Issues**
- 3.9 Selected Key Topics in US Commercial LLW/ILW Management**
- 3.10 Unique or Unusual LLW/ILW/MW Projects**
- 3.11 IAEA LABONET and DISPONET Networks**
- 3.12 NORM Waste and Other Radioactive Material Safety Issues in the Oil and Gas Industry**

4 - NUCLEAR POWER PLANT (NPP) WASTE MANAGEMENT

Clint C. Miller, Pacific Gas & Electric (Lead Co-Chair), V: 805-545-4582, Email: CCM1@pge.com

Mark Lewis, EnergySolutions (Co-Chair), V: 803-758-1827, Email: mslewis@energysolutions.com
Holger Spann, Siempelkamp Nuclear Services (Co-Chair), V: 803-796-2727, Email: holger.spann@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/UNF 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 Onsite SNF/UNF Storage**

5 - PACKAGING AND TRANSPORTATION

Paul Jones, DeNuke Contracting Services, Inc. (Lead Co-Chair), V: 865-591-8632, Email: pjones@denuke.com
Olaf Oldiges, Daher-NCS (Co-Chair), V: 48-6181-501100, Email: Olaf.Oldiges@daher-ncs.com
Stephen O'Connor, US DOE (Co-Chair), V: 301-903-7854, Email: Stephen.OConnor@em.doe.gov

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 and Other Hazardous Materials and Wastes**
- 5.2 Radioactive Material Packaging and Transportation Regulatory Issues**
- 5.3 Packaging for Interim Storage, Transport and Disposal**
- 5.4 Tribal and Regional Groups Involvement in Resolving Radiological Transportation Issues**
- 5.5 Waste Isolation Pilot Plant Packaging and Transportation Lessons Learned**
- 5.6 Successes Stories and Lessons Learned in Transportation**
- 5.7 Packaging Design**

6 - DECONTAMINATION AND DECOMMISSIONING (D&D)

Al Freitag, Mitsubishi Nuclear Energy Systems (Lead Co-Chair), V: 972-401-5233, Email: al.freitag@mnes-us.com
Jas Devgun, Sargent & Lundy, LLC (Co-Chair), V: 312-269-2283, Email: jas.s.devgun@sargentlundy.com
Fred Sheil, Sheil Consulting, Ltd. (Co-Chair), V: 44-1946-813342, Email: fred@sheil.myzen.co.uk

This Track includes all aspects of D&D from shutdown and planning to license termination and/or greenfield, including characterization, decontamination, storage/SAFESTOR, 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 D&D 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 Facilities (Non-Power Generating Facilities/Large and Small Nuclear Facilities)**

- 6.2 D&D of Nuclear Power Plants**
- 6.3 D&D of US DOE Facilities**
- 6.4 The Aging Infrastructure and Asset Management - Critical Investments/Alternatives to Get to the Finish Line**
- 6.5 Accelerated D&D of Facilities**
- 6.6 Waste Optimization/Minimization and Harmonization During D&D**
- 6.7 Application of Innovative D&D Technologies**
- 6.8 Graphite and Decommissioning of Graphite Containing Reactors**

7 - ENVIRONMENTAL REMEDIATION (ER)

John Kristofzski, CH2M HILL, Inc. (Lead Co-Chair), V: 509-420-6013, Email: John.Kristofzski@ch2m.com
Del Baird, Pro2Serve (Co-Chair), V: 270-441-6853, Email: bairdd@p2s.com
Tjalle "Chuck" Vandergraaf, Consultant (Co-Chair), V: 204-753-8402, Email: ttheiv@mts.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; 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; sustainable green remediation processes 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 Challenges - Alternative Approaches to Achieving End State**
- 7.5 ER Post Closure Challenges and Long Term Stewardship/Legacy Management**
- 7.6 US - Formerly Utilized Sites Remedial Action Program (FUSRAP) & Other US Army Corp of Engineers Projects**
- 7.7 Groundwater Remediation Projects**
- 7.8 Progressive Learning in Environmental Remediation Projects**
- 7.9 Deep Vadose Zone Characterization and Remediation Technologies**
- 7.10 Sustainable Remediation Processes**
- 7.11 Environmental Remediation in Urban and Suburban Environments**

8 - COMMUNICATION OF TECHNICAL ISSUES AND IMPACTS, EDUCATION AND TRAINING (CE&T)

John Dalton, NDA (Lead Co-Chair), V: 44-1925-802445, Email: john.dalton@nda.gov.uk
W.T. (Sonny) Goldston, EnergySolutions (Co-Chair), V: 803-292-1079, Email: wgoldston@energysolutions.com
Judith Connell, Fluor (Co-Chair), V: 509-376-6808, Email: Judith.Connell@fluor.com

This Track is divided into multiple diverse topics including techniques for communicating technical issues, education and training, social justice and equity, intergovernmental and sustainability issues, knowledge management, public involvement and risk communications, preserving cultural resources while demolishing aging facilities and infrastructure. This Track incorporates a broad range of issues that shape decisions involving waste management, including cultural, equity, social, environmental, policy, communications, training and education. This Track also addresses environmental assessment issues (Environment Impact Statements) in the context of US National Environmental Policy regulations.

- 8. Communications, Involvement, Education and Training - Non-Specified Abstracts**
- 8.0 Communications, Involvement, Education and Training - Posters**
- 8.1 Communication of Technical Issues**
- 8.2 Engaging Citizens - Lessons Learned from Around the World**
- 8.3 The Stakeholder's Voice - The Impact that Citizens and Regulators on Radioactive Waste Issues**
- 8.4 Preservation of Cultural Resources & Historic Artifacts & the Use/Development of Visitor Centers & Museums**
- 8.5 From Community Closure Perspectives to Web-Based Tools for ER Cleanup Programs**
- 8.6 Communicating/Sharing Nuclear Licensing & Environmental Regulations Knowledge of Waste Disposal The Effectiveness of Advisory Boards; the US DOE-EM Site Specific Advisory Board Experience**
- 8.8 Workplace Management and Performance Solutions**

9 - SPECIAL TOPICS AND MULTI-TRACK CROSS CUTTING TECHNOLOGY TOPICS (ST)

Kim Auclair, KD Auclair & Associates, LLC (Lead Co-Chair), V: 360-609-0627, Email: kda@kda-llc.com
Guenter Hillebrand, Nuclear Engineering Seibersdorf GmbH (Co-Chair), V: 43-0505-502040, Email: guenter.hillebrand@nes.at
Ming Zhu, US DOE (Co-Chair), V: 301-903-9240, Email: Ming.Zhu@em.doe.gov

This Track includes all special topics including the aspects of US and non-US International Safety, Security, and Safeguards and US Homeland security issues. It also includes technical track crosscutting topics or special WM topics on programs associated with orphan and sealed sources, Integrated Risk Management and decision support analysis in support of Program Management & Project Management inclusive of but not limited to modeling, compliance activities, criteria and standards development, Natural Resource Damage Assessment (NRDA); Technology Deployment and Technical Risk Management; instruments, filtration, advanced technologies, extreme environment operations enabling technologies, technology driven program implications and drivers, and/or other technical crosscutting issues that involve multiple waste forms or radioactive materials and/or risk management.

- 9. Special Topics and Track Cross Cutting Technology Topics - Non-specified Abstracts**
- 9.0 Special Topics and Track Cross Cutting Technology Topics - Posters**
- 9.1 Worldwide Mgmt of Spent & Disused Radioactive Sealed Sources, HEU & Orphan Radioactive Materials**
- 9.2 Recent Dev. and Trends in Integrated Risk Assessment Methods, Tools & Decision Analysis Support**
- 9.3 Crosscutting Subsurface Mass Transport and Environmental Assessment of Geological Disposal Systems**
- 9.4 Crosscutting Performance Assessments Risk Management, and Modeling**
- 9.5 Radiological Dispersion Devices and other Nuclear Weapons of Mass Destruction**
- 9.6 Advances in Nuclear Safety Management**
- 9.7 Crosscutting Filtration Systems in the Nuclear Industry**
- 9.8 Project Management Improvements-Planning through Completion - Scope, Cost, & Schedule Control**
- 9.9 The Potential Impact of a Thorium-Based Fuel Cycle on Uranium Based Waste Disposal**
- 9.10 Productive Uses for Radionuclides**
- 9.11 Waste Management and Other Issues of Small Modular Reactors (SMRs)**

10 - MISCELLANEOUS AND NON-SPECIFIED ABSTRACTS PENDING TOPIC OR TRACK ASSIGNMENT

Gary Benda, AVANTech, Inc. (Lead Co-Chair), V: 803-345-2170, Email: gbenda@wmarizona.org
Linda Lehman, CH2M HILL (Co-Chair), 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 WM PAC Chair to the appropriate topic. The second function is to assimilate late abstracts for the only WM 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**
- 10.0 Non-Paper Poster Topic for Emerging Issues and Late Abstracts**

WM2015 THURSDAY TOPICAL SESSION

A special Thursday afternoon panel on **“Strategic and Operational Management of Used Nuclear Fuel in the US and Internationally”** will be held at WM2015. The featured panel will focus on several topics including policy initiatives derived from the US Blue Ribbon Commission (BRC) report and ongoing Yucca Mountain initiatives. It will address the operational status of existing Independent Spent Fuel Storage Installations (ISFSIs); developments in storage and transportation cask designs; operational status of spent and used fuel storage installations globally; current status of repository development; and stakeholders opinions. The session will provide the current status of those various worldwide activities and will consist of both US and non-US representatives, followed by an evening reception.

WM2015 will also feature an embedded topical on this panel theme that will culminate in the Thursday afternoon panel to explore and communicate lessons learned. It will link the management, technical, regulatory, legal, and stakeholder involvement in the process. All tracks have topics that will support the management of the Used Nuclear Fuel theme.

HOW TO SUBMIT AN ABSTRACT FOR CONSIDERATION

Abstracts are to be submitted online at www.wmsym.org by August 15, 2014 with the following information: 1) a descriptive title that will reflect the paper and presentation content; 2) a summary of the problem it addresses/solves, its history, the work conducted, and results; 3) a brief description of its application/benefit to others; and 4) contact information for all authors including mailing address, email addresses and phone numbers.

Abstracts should be between **400-800 words** and no more than 1,200 words.

Abstract submission for oral presentations is limited to two (2) abstracts per Presenter. There is no limit on the number of abstracts one person can co-author.

The primary contact will be designated to represent the abstract, draft, final paper and collect the copyright forms for all authors. This primary contact will receive all email correspondence related to the paper and the conference. The primary contact may or may not be an Author.

Upon submission, abstracts are reviewed and ranked by Program Advisory Committee (PAC) volunteers and approved abstracts are selected for an oral poster session. The criteria for determining conference placement is designed to ensure that each abstract is ranked and assigned to the best Track/Session for its content, format and anticipated audience interaction. Abstract Rating Criteria is posted on the WMS website under the Volunteers tab and Abstracts section under Instructions and Forms as a guide for Authors.

Abstracts submitted after the due date or not meeting the acceptance criteria may not be approved for WM2015 or assigned to the non-paper poster.

Once the conference sessions are finalized, the Primary Contact for each abstract is notified. Authors must complete and submit a draft paper for review by November 7, 2014. Papers must be revised, if requested, according to the designated paper reviewer's instructions and submitted with all signed copyright forms by January 16, 2015.

Papers that are either not revised as required by the designated paper reviewer, missing copyright forms from any author, or not presented at the WM2015 conference will not be published on the final conference proceedings.

LETTER OF INVITATION / VISA REQUESTS

Should you require a Letter of Invitation to apply for a travel visa, please email online@wmarizona.org with your full name, abstract number, mailing address, date of birth, country of issue and passport number by November 3, 2014.

REQUESTS FOR FINANCIAL AID

WMS is able to offer a limited number of attendees discounted registration fees and/or housing support for the conference. Should you wish to request financial aid to participate as a Presenter/Author for the WM2015 conference, please complete and return the Financial Aid Request form available at www.wmsym.org by the November 3, 2014 deadline. All deadlines for authors must be met to be eligible for financial aid. Please note that the WM Symposia does not offer financial aid to cover travel costs. Financial aid is given after the conference, not prior to – attendees are responsible for their own transportation costs.

Please note that all authors, presenters and panelists are required to register and pay to attend the conference.

WM2015 ABSTRACT & PAPER SUBMISSION DEADLINES

August 15, 2014	Abstract Submission Deadline
October 1, 2014	Authors notified of Acceptance
November 7, 2014	Full-length Draft Papers Due
December 5, 2014	Reviewer Comments to Authors
January 16, 2015	Final Full-length Papers due with Signed Copyright Authorizations

STUDENT POSTER COMPETITION

Full-time students enrolled in secondary educational programs in technical or policy fields with the objective of contributing to the safe management of nuclear materials and are under the age of 35 are eligible for the Student Poster Competition. The competition session will be presented on Monday, March 16, 2015; posters will remain on display throughout the conference. The winner will be announced and presented with \$500 cash at the Honors & Awards Luncheon on Tuesday, March 17, 2015.

Student abstracts consist of a 50-word summary of their work along with a short video highlighting their education, goals and overview of their poster. Abstracts and videos are to be submitted online at www.wmsym.org by January 16, 2015.

In addition to participating in the poster competition at the conference, students will also record a brief video of their poster that will be shown throughout the conference as well as published with the conference proceedings. Further details on the video will be sent upon submission of the abstract.

Students participating in the Student Poster Competition will receive complimentary conference registration and housing.

QUESTIONS?

Please contact the WMS Technical Program Coordinator at papers@wmarizona.org, +1 480-557-0263, the listed Lead Track Co-Chairs, or the PAC Chair, Gary Benda at gbenda@wmarizona.org, +1 803-345-2170.