

Jessica L. White-Horton

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Education:

2014 – Diploma – Universite de Montpellier
Concentration: International Nuclear Law
2012 – Fellow – World Nuclear University – Oxford, UK
2009 – Master of Science- University of Tennessee
Concentration: Chemical Physics
2003 – Bachelor of Arts- McGill University
Major: Foreign Language (Italian);
Minor: Chemistry

Miscellaneous Professional Information

- Clearance Level: Q/SCI
- Vice President: INMM Central Regional Chapter (2015-present)
- Secretary: Federally Employed Women – Oak Ridge Chapter (2014-2016)
- Poster Session Co-Chair – INMM Annual Meeting, (2016-)
- INMM Technical Programme Committee, (2016-)

Professional Experience

Oak Ridge Associated Universities

Post-Masters Research Associate: August 2009-August 2011 (Oak Ridge National Laboratory)

Global Nuclear Security Technology Division- International Safeguards

Mentors: Mark Laughter/Ron Cain

Oak Ridge National Laboratory

Research and Development Staff: August 2011-present

Nuclear Security Isotope Technology Division- International Safeguards

Major projects

Global Cylinder Monitoring and Identification System- February 2010-present

Work includes the drafting of technical reports, conference papers, engaging various stakeholders, and organizing meetings with team members from offsite

Nonproliferation Policy Analysis and Interdiction Resource- April 2014-present

Work includes QA testing, and the upkeep of current data into an online repository

ID-288 liaison- December 2013-present

Work includes providing the notification of IAEA inspections to the DOE team, verifying access for the IAEA inspectors, updating the inspector database online, and drafting the annual report of inspection activities.

Conference Presentations:

Presented: INMM Central-Regional Chapter Meeting, Oak Ridge, TN, 09/09

Presented: Pacific NW International Conference, (ANS/INMM co-sponsored) Portland, OR, 4/10

Presented: INMM Annual Meeting, Baltimore, MD, 07/10

Presented: Packaging and Transportation of Radioactive Materials (PATRAM), London, UK, 10/10

Presented: American Nuclear Society, Las Vegas, NV, 11/10

Presented: INMM 5th Annual Workshop “Addressing the Insider Threat,” College Station, TX, 3/11

Presented: INMM Annual Meeting, Palm Desert, CA, 07/11

Presented: NMMSS Annual Users Meeting, St Louis, MO, 05/13

Presented: Packaging and Transportation of Radioactive Materials (PATRAM), San Francisco, CA, 08/13

Presented: ANS Winter Meeting, Washington, DC, 11/13 (Panelist)
Presented: NMMSS Annual Users Meeting, Denver, CO, 05/14
Presented: INMM Annual Meeting, Atlanta, GA, 07/14
Presented: Modeling and Simulation for Safeguards and Nonproliferation – NGS, Oak Ridge, TN, 12/14
Presented: NMMSS Annual Users Meeting, Las Vegas, NV, 05/15
Presented: INMM Annual Meeting, Indian Wells, CA, 07/15

Presentation pending: NMMSS Annual Users Meeting, New Orleans, LA, 05/16
Presentation pending: INMM Annual Meeting, Atlanta, GA, 07/16
Presentation pending: Packaging and Transportation of Radioactive Materials (PATRAM), Kobe, Japan, 09/16

Publications (lead author):

Pacific NW International Conference, Portland, OR, April 2010

Next Steps in Global UF₆ Cylinder Monitoring (conference proceedings)

INMM Annual Meeting, Baltimore, MD, July 2010

Results of Mock Inspections of the ORNL Continuous Load Cell Monitoring System (conference proceedings)

Packaging and Transport of Radioactive Materials, London, U.K., Oct. 2010

Global Identification and Monitoring of UF₆ Cylinders (conference proceedings)

INMM Workshop, Reducing the Risk from Radioactive & Nuclear Materials, TAMU, March, 2011.

Global Tracking of UF₆ Cylinders to Reduce the Insider Threat (conference proceedings)

INMM Annual Meeting, Palm Desert, CA, July 2011

An Index of Modeling and Simulation Activities at Oak Ridge National Laboratory (conference proceedings)

INMM Annual Meeting, Orlando, FL, July 2012

NGSI: The Life of a Cylinder (conference proceedings)

Packaging and Transportation of Radioactive Materials (PATRAM), San Francisco, CA, August 2013

Content specific Challenges for Uranium Hexafluoride (conference proceedings)

INMM Annual Meeting, Atlanta, GA, July 2014

Results of the Field Trial of TRI-ACE and ACE Units in 2013 (conference proceedings)

An Overview of the World Nuclear University Summer Institute Alumni Assembly (conference proceedings)

Legal Issues in the Transport of Nuclear Material – An International Case Study, December 2014 (Thesis for Universite de Montpellier)

INMM Central Region Chapter Workshop, Knoxville, TN, March 2015

A Brief Overview of U Mining and Milling and the Potential for Safeguards Integration (slides available upon request)

INMM Annual Meeting, Indian Wells, CA, July 2015

The Methodologies for the ANSI N14.1 Standard for Uranium Hexafluoride (conference proceedings)

Variance in the Regulations for the International Transport of Radioactive Material (conference proceedings)

Stakeholders in Global Monitoring of UF₆ Cylinders, **ORNL/TM-2010/170**

“Global Identification and Monitoring of UF₆ Cylinders” *Packaging, Transport, Storage & Security of Radioactive Material* **Volume 22, No. 2 (2011)**

The Life Cycle of 30B and 48Y Cylinders, **ORNL/TM-2011/522**

Implementation of International Atomic Energy Agency Safeguards in the United States FY2014, **ORNL/TM-2015/4 (OUO)**

Implementation of International Atomic Energy Agency Safeguards in the United States FY2014, ORNL/TM-2016/116 (OUO)

Publications (co-author):

INMM- Central Regional Chapter Meeting, November 2009

Next Generation Safeguards Concepts & Approaches at ORNL (conference proceedings)

INMM Annual Meeting, Baltimore MD, July 2010

The Inaugural Meeting of the Next Generation Safeguards Professional Network at ORNL (conference proceedings)

INMM Annual Meeting, Palm Desert, CA, July 2013

Initial Feedback from Industry on Preliminary Concept of Operations for a Global UF6 Cylinder Identification and Monitoring System (conference proceedings)

Global Cylinder Identification and Monitoring System: Nonproliferation Concerns and Baseline Definition, ORNL/TM-2013/169

Preliminary Concept of Operations for a Global Cylinder Identification and Monitoring System, ORNL/TM-2013/278

Results from the TRI-ACE Spoofing Demonstrations at the Paducah Gaseous Diffusion Plant, SRNL, June 2013 (OUO)

Report on the UF6 Cylinder Stakeholder Meeting – April 2014, ORNL/TM-2014/681

User Guide for ID-288, ORNL/LTR-2015/410

Environmental Sampling Using Location Specific Air Monitoring in Bulk Handling Facilities, ORNL/TM-2015/431

Additional Protocol (AP) Protocol Reporter Version 3.0 (PR3) – Test Plan and Procedure, ORNL/TM-2015/629