

*The Coming Nuclear Renaissance for the Next Generation Safeguards Experts
Maximizing Benefits While Minimizing Proliferation Risks
December 15-18, 2008
Joint Institute of Computational Sciences (JICS) Building 5100*

*Oak Ridge National Laboratory (ORNL) UT-Battelle in partnership with
Y-12 National Security Complex
Savannah River National Laboratory (SRNL) and Savannah River Nuclear Solutions (SRNS)
(Version 16)*

Monday, December 15, 2008	Tuesday, December 16, 2008	Wednesday, December 17, 2008	Thursday, December 18, 2008
<p>8:30 – 9:30 - Registration</p> <p>9:30 – Welcome, Dana Christiansen, Associate Laboratory Director, Energy and Engineering Sciences Directorate</p> <p>10:00 – Alan Icenhour, Director Global Nuclear Security Technology Division</p> <p><u>I. Introduction to the Nuclear Renaissance</u> 10:30– Course Objectives – Michael Whitaker 10:45 – Overview of Course and Logistics – Dawn Eipeldauer</p> <p><u>Overview of Site Missions</u> 11:00 - Chuck Goergen, Deputy Manager, Separations, Savannah River Nuclear Solutions 11:20 – Morris Hassler, Y-12 National Security Complex</p> <p>Lunch on own</p> <p><u>II. The Nuclear Fuel Cycle</u> 1:00 – Ken Baker, Deputy Administrator for Defense Nuclear Nonproliferation, and Adam Scheinman, Assistant Deputy Administrator for Nonproliferation & International Security 1:15 – The Nuclear Fuel Cycle – Mike Ehinger (ORNL) 2:00 – Safeguards for Enrichment – Michael Whitaker (ORNL) 2:45 - Reactors (Production, Research and Power) – Dan Ingersoll (ORNL) 3:30 – Break 3:45 - Safeguards for Plutonium Reprocessing – Chuck Goergen (SRNS) 4:30 - Safeguards for Transportation – Steve Bellamy (SRNL) 5:15 – Nonproliferation Computational Codes – Bernadette Kirk (ORNL)</p> <p>5:45 Closing Comments</p>	<p><u>III. Legal Framework</u></p> <p>8:00 – International Treaties and Agreements – Ana Raffo-Ciaido (ORNL)</p> <p>9:00 – International Safeguards – John Oakberg (Haselwood Enterprises)</p> <p>10:00 – Break</p> <p>10:15 – The Nuclear Regulatory Framework and Implementation of MC&A Systems, Martha Williams, NRC</p> <p>11:15 – The Nuclear Regulatory Commission (NRC), Oleg Bukharin, Nuclear Security Incidence Response</p> <p>12:15 – Lunch at ORNL on own</p> <p>1:15 – Export Control Program, Dave Snider (ORNL)</p> <p><u>IV. Domestic Safeguards and Security</u></p> <p>2:15 – Domestic Physical Protection Systems – Richard E. Glass, Y-12 National Security Complex</p> <p>3:00 – K-Area Complex – Richard Koenig (SRNS) 3:45 – Break 4:00 – Domestic Nuclear Material Control and Accounting, Amy Wilson (Y-12)</p> <p>4:45 – Plutonium Measurement System – Michael Holland (SRS)</p> <p>5:30 – Closing Comments</p> <p>7:00 – Event - TBD</p>	<p><u>V. Tours Y-12 and ORNL</u></p> <p>8:00 – Tours at Y-12</p> <p>7:00-7:15 – New Hope Center – meet hosts Sharon Disney and KJ Maddux for tour 8:00 – depart on bus with Ray Smith providing history of Y-12 8:30 – JL Davis – Central Training Facility 9:30 – Building 9213 – Nuclear Radiological Field Training Center 10:30 – New Hope – HEU/MF Storage Facility with Mona Williams & Operational Testing Demonstrations with David Speaks & Joe Rainwater</p> <p>12:00 – Lunch on own</p> <p>1:00 – ORNL Tours Begin</p> <p>Participants divided into groups that will tour three locations for 1 hour:</p> <ul style="list-style-type: none"> A. Safeguards Systems Technology Integration Center B. High Flux Isotope Reactor C. Coupled end-to-end project <p>3:00 – 3:15 - Break</p> <p>4:30 – Global Security and Nonproliferation Training – Sharon Wagner (ORNL)</p> <p>5:00 – Closing Comments</p>	<p>8:00 - Introduction – Bernadette Kirk (ORNL)</p> <p><u>VI. Next Generation Safeguards Specialist</u> 8:15 – Ed Wonder, Office of International Regimes and Agreements/QinetiQ-North America, Principal Scientist QNA</p> <p><u>VII. University Partnerships</u> 9:00 – Dr. Glenn Sjoden – University of Florida (UF) 9:20 - Dr. Jason Hayward – University of Tennessee (UT) 9:40 - Dr. Man-sung Yim – North Carolina State (NCS) 10:00 Break 10:20 – Dr. David Ford - Texas A&M 10:40 - Dr. Shaheen Dewji - Georgia Institute of Technology (GA) 11:00 - Dr. Paul Wilson – University of Wisconsin (UW) 11:20 - Dr. Sudarshan Loyalkas - University of Missouri (UM) 11:40 - Dr. Shaun Clarke, University of Michigan (UM)</p> <p>12:00 – Lunch at ORNL on own</p> <p>1:00 - Cheryl Terry – Oak Ridge Institute for Science and Engineering (ORISE) 1:20 – Dawn Eipeldauer – ORNL Outreach to Universities and Internships 1:40 - Craig Williamson, South Carolina Universities Research Education Foundation (SCUREF) 2:00 - Open Discussion on University Engagement concerning university needs– Bernadette Kirk (ORNL), and Jeff Jay (SRNL)</p> <p>4:00 – Wrap</p>