

**IAEA-Argonne International Seminar on  
Essential Elements of Nuclear Security**

7-18 March 2016

MONDAY 3/07/2016		TUESDAY 3/08/2016		WEDNESDAY 3/09/2016		THURSDAY 3/10/2016		FRIDAY 3/11/2016	
	Location: BLD 223		Location: BLD 223		Location: BLD 223		Location: BLD 223		Location: BLD 223
09:00	<b>Part 0.0 Introduction</b> Part 0.1 Welcome to Argonne Welcome on Behalf of the IAEA Course Objectives (ANL Coordinator)	08:30	Part 1.3 International Legal Instruments for Nuclear Security (F. Morris/PNNL)	08:30	Part 3.2 Vulnerability Assessment (J. Warner/ANL)	08:30	Part 5.3 Security of Radioactive Sources (F. Morris/PNNL)	08:30	<b>Part 6.0 National Detection Architecture</b> Part 6.1 Understanding Threat Assessment & Risk Informed Approach to Design of Nuc Sec Sys & Measures (A. Askin/SNL)
09:30	Part 0.2 & 0.3 Site Security Briefing Site Health & Safety Briefing (K. DeLaurentis & T. Kekelik/ANL)	09:30	<b>Part 2.0 National Nuclear Security Regime</b> Part 2.1 Nuclear Security Fundamentals: Objective and Essential Elements-Overview (M. Man/IAEA)	09:30	<b>Part 4.0 Cross Cutting Elements</b> Part 4.1 Introduction to Nuclear Security Culture (M. Man/IAEA & Course Staff)	09:30	Part 5.4 NMAC at Facilities (C. Roche/ANL)	09:30	Part 6.2 Radiation Detection Fundamentals & Detection Systems (E. Moore/ANL)
10:15	Break	10:30	Break	10:30	Break	10:30	Break	10:30	Break
10:45	Part 0.4 Introduction of Participants	11:00	Part 2.2 National Presentations (Participants)	11:00	Part 4.2 Sustainability of the Nuclear Security Regime (F. Morris/PNNL & M. Lane/LLNL)	11:00	Part 5.5 Roche Exercise Organizational Plan for Nuclear/Radiological Facility (C. Roche/ANL/Course Staff)	11:00	Part 6.3 Detection Architecture (A. Askin/SNL)
11:30	LUNCH	12:00	LUNCH	12:00	LUNCH	12:00	LUNCH	12:00	LUNCH
12:30	<b>Part 0.5 Laboratory Tour of Advanced Photon Source (APS) Facility</b>	13:00	Continuation: Part 2.2 National Presentations (Participants)	13:00	Part 4.3 Introduction to Computer Security in Nuclear Security (R. West/INL)	13:00	Part 5.6 Case Study of Regulator in Nuclear Security – US NRC Security Activities (M. LaFranzo/NRC)	13:00	Part 6.4 Incident and Trafficking Database – Purpose and Overview (M. Man/IAEA)
14:00	Part 1.1 What is Nuclear Security? Nuclear Security Feature – IAEA Video (10 mins) (M. Man/IAEA)	14:00		14:00	Part 4.4 Introduction to Security of Information in Nuclear Security (R. West/INL)	14:00	Break	14:00	Part 6.5 Security Concerns for Radioactive Material & Border Security (C. Bent/DOE)
		15:00	Break	15:00	Break	14:30	Part 5.7 Security and Control of Radioactive Material at Hospitals (R. Wagner/LUMC)	15:00	Part 6.6 Roundtable discussion on Security Concerns for Radioactive Material in Border Security (Course Staff and C. Bent/DOE)
15:00	Part 1.2 Initial Exercise – Part I: Organizational Structure (Course Staff)	15:30	<b>Part 3.0 Threat Assessment &amp; Risk Informed Approach</b> Part 3.1 Performing a Threat Assessment & Define a DBT (M. Lane/LLNL)	15:30	<b>Part 5.0 Nuclear Security of Nuclear &amp; Other Radioactive Material, Associated Facilities &amp; Associated Activities</b> Part 5.1/5.2 Security of Nuclear & Radioactive Mat During Transport (Video 26 mins) (V. Salas/US)	15:30	Part 5.8 Exercise Involving Radiological Materials at Hospital (Course Staff/R. Wagner/LUMC)	15:30	Part 6.7 Exercise on Illegal Nuclear Material Discovered by Police (Course Staff)
17:00	Adjourn	17:00	Adjourn	17:00	Adjourn IAEA Hosted Dinner @ Gordon-Biersch Restaurant (18:30)	17:00	Adjourn	17:00	Adjourn HOMEWORK: Part 6.8 Initial Exercise - Part II: Updating Org Outline (Staff)

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MONDAY 3/14/2016		TUESDAY 3/15/2016		WEDNESDAY 3/16/2016		THURSDAY 3/17/2016		FRIDAY 3/18/2016	
	Location: BLD 223		Location: BLD 223		Location: BLD 241		Location: BLD 241		Location: BLD 241
08:30	Part 6.8 Initial Exercise - Part II: Updating Organizational Outline (Course Staff)	08:30	Part 7.7 Overview of Nuclear Security Threats (C. Nogueira de Oliveira/IAEA)	08:30	Part 8.0 Final Exercise Part 8.1 TTX Briefing & Introduction of Exercise (C. Nogueira de Oliveira/IAEA)	08:30	TTX Exercise Part 4 Conduct & Debriefing	08:30	Groups ABCD Assessment Presentations
09:00	Part 7.0 Managing Response to Nuclear Security Events Part 7.1 Emergency Medical Planning for Incidents (M. Cichon/LUMC)	9:30	Break	09:00	TTX Exercise Part 1 Conduct & Debriefing	09:45	Break	09:30	Part 8.4 Staging for a Press Conference: "Looking Your Best" (C. Kramer/ANL & Course Staff)
10:00	Break	10:00	Part 7.8 Introduction to Nuclear Security Systems and Measures for Major Public Events (C. Nogueira de Oliveira/IAEA)	09:45	Break			10:00	Part 8.5 Press Conference
10:30	Part 7.2 Emergency Medical Response to Nuclear Security Event with Radiological Consequences (J. Rivette/AFD/ANL)	11:00	Break	10:00	TTX Exercise Part 2 Conduct & Debriefing	10:00	TTX Exercise Part 5 Conduct & Debriefing		
11:30	Part 7.3 Initial Exercise Part III – Emergency Response Plan (Course Staff)	11:30	Part 7.9 Introduction to Radiological Crime Scene Management (B. Garrett/US)			12:15	TTX Exercise Completion of Exercise Debriefing	11:30	Part 9.0 Closing Course Wrap Up
12:30	LUNCH	12:30	LUNCH	12:30	LUNCH	12:15	LUNCH	12:00	Seminar Evaluation
13:30	Continuation Part 7.3 Initial Exercise Part III – Emergency Response Plan (Course Staff)	13:30	Part 7.10 Case Studies: "Expect the Unexpected" Chance Discovery of Nuclear Materials (B. Garrett/US)	13:30	TTX Exercise Part 2 Conduct & Debriefing (Continuation)	13:15	TTX Exercise Groups ABCD Discussion & Preparation of Group Assessment Presentations	12:45	Award of Certificates, Concluding Remarks & End of Seminar
14:30	Part 7.4 Case Study: Goiania (C. Nogueira de Oliveira/IAEA)	14:30	Break	15:00	Break	15:15	Part 8.2 Dealing with the Public and Press/Holding a Press Conference (C. Kramer/ANL)	1:30	Adjourn
15:30	Part 7.5 Video on Emergency Response (Video 18 mins)	15:00	Part 7.11 Introduction to Nuclear Forensics in Support of Investigations (B. Garrett/US)	15:15	TTX Exercise Part 3 Conduct & Debriefing				
16:00	Part 7.6 Tour of Argonne Fire Department & Detection Instruments (ANL AFD)	16:00	Wrap Up			16:00	Part 8.3 Groups ABCD Preparation of Press Releases		
17:00	Adjourn	17:00	Adjourn	16:45	Adjourn	16:45	Pizza Party @ hotel (18:00)		