

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

13 - 24 May 2013

MONDAY 5/13/2013		TUESDAY 5/14/2013		WEDNESDAY 5/15/2013		THURSDAY 5/16/2013		FRIDAY 5/17/2013	
08:30		08:30	Identifying Nuclear Security Concerns & Combating Nuclear Terrorism (A. Nilsson)	08:30	Nuclear Security Regime Case Study (A. Nilsson)	08:30	Analysis of Strategic Commodity Transfers (Export/Import Control) (K. Lauren-Kovitz)	08:30	Radiation Detection Fundamentals (R. Klann & B. Micklich)
09:00	Welcome to Argonne Welcome on Behalf of the IAEA Course Introduction								
09:30	Site Security Briefing Site Health & Safety Briefing	09:30	International Perspective on Nuclear & Radiological Security (A-M. Eriksson)			09:30	Information Security (C. Zadlo)		
10:15		10:45	Proliferation & the Nuclear Fuel Cycle (J. Taylor)	10:30	Understanding Risk associated with Radiological Threats (A-M. Eriksson)			10:30	International Safeguards & Additional Protocol to Safeguards Agreement (A-M. Eriksson)
10:45	Introduction of Participants	11:00	Group Photo	11:00	Performing a threat assessment & define a DBT (A-M. Eriksson)	11:00	Security and Control of Radioactive Material at Hospitals (R. Wagner)		
		11:45	Nuclear Security Regime Objectives & Essential Elements (A-M. Eriksson)	11:45	Vulnerability Assessment (R. Johnston)	11:45	Legal Shipments of Nuclear & Radioactive Materials (A-M. Eriksson)	11:30	Accountancy & Control (C. Roche)
12:00	LUNCH								
		12:30	LUNCH	12:30	LUNCH	12:30	LUNCH	12:30	LUNCH
13:00	Initial Exercise – Part I: Organizational Structure								
		13:30	International Legal Instruments for Nuclear Security (A. Nilsson)	13:30	Physical Protection of Nuclear Material & Nuclear Facilities (C. Roche)	13:30	Video on Safe Shipments	13:30	Overview of Security Activities: Guest Country Regulator, Specific Country Presentations
		14:45	Legal and Regulatory Infrastructure of Nuclear Security (A. Nilsson)	14:15	Security of Radioactive Sources (A-M. Eriksson)	14:15	Security of Nuclear and other Radioactive Materials during Transport (A-M. Eriksson)		
				15:00	Exercise - Security Approaches	15:00	Exercise – Shipment of Radioactive Material		
		15:30	Nuclear Security Regime Case Study (A. Nilsson)					15:30	Exercise-Discovery of Nuclear Material by Police
16:00	Laboratory Tour			18:30	Dinner @ Gordon-Biersch				

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MONDAY 5/20/2013		TUESDAY 5/21/2013		WEDNESDAY 5/22/2013		THURSDAY 5/23/2013		FRIDAY 5/24/2013	
08:30	Overview of U.S. NRC Security Activities (J. Kutlesa)	08:30	Security Concerns for Radioactive Material & Border Security (A. Johnston)	08:30	Emergency Medical Response Planning to Incidents (M. Cichon)	08:30	Discussion of Final Tabletop Exercise	08:30	Preparation Time
09:30	Illicit Trafficking Data Base System (G. Moore)	09:30	Video on IAEA- "Watchdogs"	09:30	Presentations on Initial Exercise – Part II: Updating Organizational Structure	09:30	Relocation	10:00	Tabletop Exercise – Small Group Presentation 1
10:15	Discussion of Case Studies (G. Moore)			10:30	Initial Exercise – Part III: Developing an NCMP	10:30	Final Tabletop Exercise	10:30	Tabletop Exercise-Small Group Presentation 2
10:45	Role of Customs / Border Guards in Border Protection (G. Moore)	11:00	Response to Criminal or Unauthorized Acts Involving Nuclear & Radioactive Material (L. Conti)					11:00	Tabletop Exercise – Small Group Presentation 3
11:30	Overview of Security Activities: Guest Country Regulator, Specific Country Presentations							11:30	Tabletop Exercise – Group Presentation 4
		12:00	LUNCH					12:00	Wrap-Up
12:30	LUNCH			12:30	LUNCH		Working Lunch	12:30	LUNCH
		13:00	Overview of Radiological Crime Scene Response (G. Moore)						
13:30	Monitoring, Detecting & Measurement Equipment (F. Moore)	13:45	Introduction to Nuclear Forensics (G. Moore)	13:30	Methods of Emergency Response to Incidents Involving Nuclear and Radioactive Material (C. Patterson)			13:30	Plan IAEA Assistance Programs Related to Nuclear Security (G. Moore)
14:30	Nuclear Security Framework for Main Public Events (MPE) (L. Conti)			14:15	"Emergency Response to Incidents" (C. Patterson)			14:00	Seminar Evaluation
		15:00	In-field Experiences (L. Conti)	15:00	Tour of Argonne Fire Department and Display of Monitoring Equipment (F. Moore)	15:30	Wrap-Up of Final Tabletop Exercise	14:30	Award of Certificates, Concluding Remarks and End of Seminar
15:30	Exercise – Incident Involving Maintenance of Nuclear Security Instrumentation	16:00	Initial Exercise – Part II	16:00	Final Exercise Briefing	17:00	Instructions for Final Tabletop Exercise – Small Group Presentations		
						18:00	Closing Dinner @ ALOFT		