



2016 TOPICAL MEETING • PROGRAM

Sunday, September 11				
Registration: 4:30 pm - 6:00 pm, The Restaurant Foyer Welcome Reception: 6:00 pm - 7:30 pm, The Restaurant				
#	Session Title	Time	Topic	Presenter
Monday, September 12				
Meeting Room: Salon I				
1	Opening Plenary Session: Supporting a Reliable, Non-HEU Mo-99 Supply MC: Jeff Chamberlin	9:00 am	DOE-NNSA Welcome	Pete Hanlon (DOE/NNSA)
			White House Message	Matt Heavner (OSTP)
			MURR Welcome	Ralph Butler (MURR)
			Mallinckrodt Welcome	Dan Brague (Mallinckrodt)
10:00 am Coffee Break, Ballroom Pre-Function Area				
2	Dual Objectives – Meeting Patient Needs and Eliminating the Use of HEU in Civilian Applications Session Chair: Jordi Roglans-Ribas	10:30 am	Ensuring Mo-99 Availability for Patient Care	Sally Schwarz (Washington University)
			Impact of Disruptions in the Tc-99m Supply Chain on Cardiac Testing	Venkatesh Murthy (University of Michigan)
			Establishing Reliable Supplies of Non-HEU Mo-99 in the United States	Jeff Chamberlin (DOE/NNSA)
			Promises, Promises: HEU Minimization in Mo-99 Production and the Nuclear Security Summits	Miles Pomper (JMCNS)
12:00 pm Lunch Break				
3	Progress Toward Sustainable Supplies of Non-HEU Mo-99 – Session I Session Chair: Joan Dix	1:30 pm	State of Molybdenum-99 Production and Utilization and Progress towards Eliminating Use of Highly Enriched Uranium	Kevin Crowley (NAS)
			2016 Medical Isotope Supply Review: ⁹⁹ Mo/ ^{99m} Tc Market Demand and Production Capacity Projection 2016-2021	Kevin Charlton (OECD-NEA)
			National Research Universal ⁹⁹ Mo Production	John Osborne (AECL)
			Reactor-Based Mo-99 Supply Using Selective Gas Extraction: Update	Christina Back (GA)
3:00 pm Coffee Break and Refreshments, Ballroom Pre-Function Area				
4	Progress Toward Sustainable Supplies of Non-HEU Mo-99 – Session II Session Chair: Kevin Crowley	3:30 pm	Outlook for Future Mo-99 Supply	Michael Guastella (CRR)
			Development of Fission-Based Mo-99 Production Process and Facility in Korea	Seung-Kon Lee (KAERI)
			UPPI LEU Walk: Implementing a Lean Business Model Canvas to Support Client Transition to non-HEU Medical Isotopes	John Witkowski (UPPI, LLC)
			Status of NTP's Conversion Programme	Gavin Ball (NTP)
5:00 pm Adjourn				

Tuesday, September 13

Meeting Room: Salon I

#	Session Title	Time	Topic	Presenter
5	Industry Perspectives Session Chair: Michael Guastella	8:30 am	The Path to Conversion of Low Enriched Uranium (LEU) for the Production of Mo-99	Roy Brown (Mallinckrodt)
			Triad Isotopes, Inc. Perspectives and Efforts of a Nuclear Pharmacy to Support the Use of non-HEU Mo-99 for Tc-99m Compounded Patient Preparations	Fred Gattas (Triad)
			The Role Group Purchasing Organizations Can Take in Creating Early Adopters of Non-HEU in the Medical Community	Leah Gannon (Vizient)
			Cardinal Health Nuclear Pharmacy Services Perspectives on the Reliable Supply of Molybdenum-99	David Pellicciarini (Cardinal Health)
10:00 am Coffee Break and Refreshments, Ballroom Pre-Function Area				
6	Current and Future Supply Chain Outlook – Session I Session Chair: Gavin Ball	10:30 am	Progress on LEU TechnoLite® Generators	Ira Goldman (Lantheus)
			Niowave's Domestic Production of Mo-99 from LEU without a Nuclear Reactor	Terry Grimm (Niowave)
			Status of Mo-99 Production in the Russian Federation	Alexey Vakulenko (JSC Isotope)
			Northwest Medical Isotopes, LLC Project Overview and Status	Carolyn Haass (NWMII)
12:00 pm Lunch Break				
7	Regulatory Perspectives and Best Practices Session Chair: Carolyn Haass	1:30 pm	U.S. Nuclear Regulatory Commission Licensing Activities Related to Molybdenum-99 Production	Al Adams/Steve Lynch (US NRC)
			FDA Developments	Danae Christodolou (FDA)
			An Update on Regulatory and Clinical Efforts in Route to Commercialization of Cyclotron-Produced Tc-99m	Paul Schaffer (TRIUMF)
			Technical Aspects of Non-HEU Mo-99 & Tc-99m Production: An IAEA Update	Joan Dix (IAEA)
3:00 pm Coffee Break and Refreshments, Ballroom Pre-Function Area				
8	Current and Future Supply Chain Outlook – Session II Session Chair: Amanda Youker	3:30 pm	Coqui RadioPharmaceuticals Corp., Progress and Perspective on the U.S. Domestic Supply of Mo-99	Carmen Bigles (Coqui)
			ANSTO Nuclear Medicine Towards a Reliable Supply of Mo-99	Jayne Senior (ANSTO)
			Status of Domestic Production of Mo99 via Neutron Capture	Jim Harvey (NorthStar)
			IRE Ongoing Effort to Develop Reliable LEU Mo-99 Supply	Valery Host (IRE)
			Next Generation Mo-99 Production: SHINE Update	Katrina Pitas (SHINE)
5:00 pm Break: Setup Posters, Ballroom Pre-Function Area				

Tuesday, September 13 (continued)				
Meeting Room: Ballroom Pre-Function Area				
#	Session Title	Time	Topic	Presenter
9	Poster Session and Reception MC: Rilla Hamilton	5:30 pm	Waste Management Strategies for Accelerator Production of Mo-99	Tracy Rudisill (SRNL)
			Improvement on Manufacturing Process for Atomized UAl _x Powder	Kyu Hong Lee (KAERI)
			Remotely Operated Systems for Primary Recovery of ⁹⁹ Mo from Accelerator-Driven Sub-Critical Fission of LEU	John Krebs (ANL)
			Magnetic Production Plant of ⁹⁹ Mo and ⁹⁹ Tc via Proton Chain-reactions in Strong Focusing MOLYTRON Reactor and its Automatic Magnetic Extraction and Separation	Bogdan Maglich (CSE Corp)
			Optimization of the Dissolution of Mo Disks	David Rotsch (ANL)
			Uranium Concentration Measurement Development of a Routine Spectroscopic Analysis Technique	Iain May (LANL)
			¹⁰⁰ Mo to ⁹⁹ Mo Production Target Design and Testing Updates	Keith Woloshun (LANL)
			Gamma Irradiation Facility Exposure of Candidate Materials for the SHINE Subcritical Assembly Vessel and Components	Zachary Burns (ORNL)
			Generator of Highly Concentrated Pure ^{99m} Tc from Low Specific Activity ⁹⁹ Mo Produced by Reactor and/or Electron Linear Accelerator	Katsuyoshi Tatenuma (Kaken)
			HANARO Irradiation Test of UAl _x Dispersion Target Developed by KAERI	Yongjin Jeong (KAERI)
			Stack Data Upload Experiment	Charles Doll (PNNL)
7:00 pm Adjourn				

Wednesday, September 14				
Meeting Room: Salon I				
#	Session Title	Time	Topic	Presenter
10	State of Technology Development – Session I Session Chair: Katrina Pitas	8:30 am	Waste Forms for the Immobilization of Enriched Uranium Waste Streams from Mo-99 Production	Lou Vance (ANSTO)
			Chemical Processing for a Non-uranium Production of ⁹⁹ Mo/ ^{99m} Tc	Peter Tkac (ANL)
			Accelerator-Driven Production of Fission ⁹⁹ Mo	Amanda Youker (ANL)
			Irradiation Capsules with Suspended LEU UO ₂ Particles for ⁹⁹ Mo Production	Enrique Pasqualini (CNEA)
			Recent Activities at Los Alamos National Laboratory Supporting Domestic Production of Mo-99	Greg Dale (LANL)
10:30 am Coffee Break and Refreshments, Ballroom Pre-Function Area				

Wednesday, September 14 (continued)				
Meeting Room: Salon I				
11	State of Technology Development – Session II	11:00 am	Accelerator-Pathway for ^{99}Mo Production without Highly Enriched Uranium	Sergey Chemerisov (ANL)
			Production of ^{100}Mo for Cyclotron Conversion to $^{99\text{m}}\text{Tc}$	Hendrik Strydom (Klydon)
			Powder Metallurgy Molybdenum Accelerator Target Materials and Assemblies	Richard Lowden (ORNL)
			Measurement of Trace Alpha-Emitting Actinide Contaminants in Molybdenum-99	Chuck Soderquist (PNNL)
12	12:30 pm Summary and Closure MC: Jeff Chamberlin			
Optional Technical Tour of Mallinckrodt Pharmaceuticals Facility <i>(Bus transportation provided)</i> 2:30 - 5:30 pm				

Thursday, September 15				
Optional Technical Tour of the University of Missouri Research Reactor (MURR) and Mo-99 Facilities <i>(Bus transportation provided)</i> 8:00 - 3:30 pm				

