2013 ^{99}Mo Topical Meeting

April 1-4, 2013
Embassy Suites Chicago Downtown
Chicago

http://mo99.ne.anl.gov

National Nuclear Security Administration

NNSA's 2013 Mo-99 Topical Meeting, hosted by Argonne National Laboratory, will take place in Chicago, IL from April 1-4, 2013 with an optional tour of Argonne National Laboratory on April 5. This meeting is intended to serve as a workshop where international and domestic policy and technical experts can gather to present and discuss progress toward achieving the production of Mo-99 without the use of HEU in support of nonproliferation objectives and global reliability of supply.

Agenda (Preliminary)

Last modified: Mar. 22, 2013

This document is to be considered as **preliminary**. Additional minor changes may be made to the agenda prior to the meeting. Presenters please note, twenty-two minutes have been allotted for your presentation and follow-up questions.

The Meeting Organizer:

Argonne NATIONAL LABORATORY

#	Session Title	Time	Paper	Presenter
Monday, April 1 Registration: 3:00 – 6:00 pm, Pre-Function Area Welcome Reception: 6:00 – 8:00 pm, Salons A, B and C				
Tuesday, April 2 Meeting Room: Salons D, E, F and G				
1	**Plenary Session** Emcee: Jordi Roglans-Ribas	8:30 am	1. ANL Welcome	Hussein Khalil (ANL)
			2. The White House's Support for Mo-99 Production	Cindy Atkins-Duffin (OSTP)
			3. GTRI's Support for Non-HEU-Based Mo-99 Production	Parrish Staples (DOE-NNSA)
			4. Implementation of the HLG-MR Policy Approach for a Secure Supply of Medical Radioisotopes	Ron Cameron (OECD-NEA)
9:30 am Coffee Break and Refreshments, Pre-Function Area				
2	**Technical, Regulatory & Economic Challenges I**	10:00 am	1. Regulatory Preparations for Licensing Medical Radioisotope Production Facilities	Steven Lynch (NRC)
			2. The Food and Drug Administration's (FDA) Role in Medical Isotope Production	Orhan Suleiman (FDA)
			3. U.S. Tc-99m Payment Initiative	Daniel Duvall (CMS-HHS)
			4. Overview of IAEA Activities on Minimizing HEU and Stabilizing Supply in Mo-99 Production	Alisa Carrigan (IAEA)
11:30 am Lunch Break				
3	**Industry Perspectives on Current Mo-99 Production**	1:00 pm	1. Status Update on the Mo-99 HEU/LEU Conversion Project in South Africa	Gavin Ball (NTP)
			2. ANSTO Manufacturing Mo-99 from LEU for Australian Market	Michael Druce (ANSTO)
			3. Progresses on IRE's LEU Conversion Program	Valery Host (IRE)
			4. Mallinckrodt's HEU to LEU Target Conversion and an Update on Global Mo-99 Supply	Roy Brown (Mallinckrodt)
			5. Use of LEU Produced Mo-99 in the Manufacture of TechneLite Generators	Ira Goldman (Lantheus Medical Imaging)
3:00 pm Coffee Break and Refreshments, Pre-Function Area				
4	**Panel and Roundtable Discussion** Moderated by Ron Cameron	3:30 pm	Panel & Roundtable Discussion	Alan Kuperman (University of Texas, Austin) Kevin Crowley (National Academy of Sciences) Orhan Suleiman (FDA) Michael Guastella (CORAR) Lynne Fairobent (American Association of Physicists in Medicine)
5:00 pm Adjourn				
Wednesday, April 3 Meeting Room: Salons D, E, F and G				
5	**Technical, Regulatory & Economic Challenges II**	8:30 am	1. U.S. Government Actions to Implement the American Medical Isotopes Production Act of 2012	Rilla Hamilton (DOE-NNSA)
			2. Engagement Between the Medical Isotope Production and the Nuclear Explosion Monitoring Communities	Ian Cameron (PNNL)
			3. Submission and Approval of Mo-99 Information to Food and Drug Administration (FDA)	Ravindra Kasliwal (FDA)
			4. Time for an International Commitment to End Use of HEU for Mo-99	Miles Pomper (MIIS)
			5. Mo-99 NEPA Overview and Issues	Robert Hull (Los Alamos Technical Associates)
10:30 am Coffee Break and Refreshments, Pre-Function Area				

#	Session Title	Time	Paper	Presenter
6	**Future Fission-Based Production of Mo-99 I**	11:00 am	1. Process Development of Fission Molybdenum in Korea	Jun Sig Lee (KAERI)
			2. SHINE: Technology and Progress	Gregory Piefer (SHINE Medical Technologies)
			3. Pre-Conceptual Design of the Tritium Purification System for SHINE Production of Mo-99	Jim Klein (SRNL)
12:00 pm Lunch Break				
7	**Target Development**	1:30 pm	1. Uranium Supply Process for Research and Isotope Production Reactors	Terryann Nelson (Y-12)
			2. The High Density LEU Foil Based Fission Target Project	John Creasy (Y-12)
			3. Industrialization of LEU Mo-99 Target Production in AREVA-CERCA	Bertrand Stepnik (AREVA)
			4. Targets: A Perspective from the Technical and Commercial Point of View	Marcelo Salvatore (INVAP)
			5. High Density LEU Annular Target Qualification	Marin Ciocanescu (Institute for Nuclear Research Pitesti)
3:30 pm Coffee Break and Refreshments, Pre-Function Area				
8	**Future Non-Fission-Based Production of Mo-99 I**	4:00 pm	1. Update on Canada's Medical Isotope Activities	Karen Huynh (NRCan)
			2. Direct Production of Tc-99m on Canada's Existing Cyclotron Infrastructure	Paul Schaffer (The Cyclotech-99 Consortium)
			3. Eurasia Research Reactor Coalition – A Potentially Significant Source of (n, gamma) Mo-99	Petr Chakrov (Institute of Nuclear Physics, Kazakhstan)
5:00 pm Adjourn				
6:00 – 8:00 pm Reception, Salons A, B and C				
Thursday, April 4 Meeting Room: Salons D, E, F and G				
9	**Future Fission-Based Production of Mo-99 II**	8:30 am	1. Production of Mo-99 at IPEN-CNEN/SP-Brazil	João A. Osso Jr. (IPEN-CNEN/SP-Brazil)
			2. Future U.S. Supply of Mo-99 Production through Fission Based LEU/LEU Technology	James Welsh (Coqui)
			3. Mo-99 Production Utilizing Target-only Reactor Design	Milton Vernon (Eden Radioisotopes)
			4. Mo-99 Production from a Low Enriched Uranium Sulfate Solution	Felicia Taw (LANL)
			5. A Technical Demonstration of the Initial Stage of Mo-99 Recovery from a Low Enriched Uranium Sulfate Solution	Iain May (LANL)
10:30 am Coffee Break and Refreshments, Pre-Function Area				
10	**Future Non-Fission-Based Production of Mo-99 II**	11:00 am	1. NorthStar Progress in Establishing a Domestic Mo-99 Source	Jim Harvey (NorthStar Medical Radioisotopes)
			2. Los Alamos National Laboratory Engineering and Design Support for Commercial U.S. Electron Accelerator Production of Mo-99	Greg Dale (LANL)
			3. ANL Activities in Support of Accelerator Production of Mo-99 through the γ/n Reaction on Mo-100	Peter Tkac (ANL)
			4. Compaction and Sintering of Mo Powders	Steve Nunn (ORNL)
12:30 pm Lunch Break				
11	**Future Fission-Based Production of Mo-99 III**	2:00 pm	1. ANSTO Evaluated Options for Treatment of ILL Wastes	Doug Cubbin (ANSTO)
			2. Validation and Optimization Testing of a Target Fueled Isotope Production Reactor	James Dahl (SNL)
			3. Development of the Mini-SHINE/MIPS Experiments	Sergey Chemerisov (ANL)
			4. Progress Related to Mo-99 Separation, Precipitation Prevention, and Clean-Up for SHINE System	Amanda Youker (ANL)
12	**Summary and Closure** Parrish Staples (DOE-NNSA), 3:30 pm			
4:00 pm Adjourn				