



**WOSMIP2009** • Workshop on Signatures of Medical and Industrial Isotope Production • Pacific Northwest National Laboratory

**Castello di Strassoldo di Sopa • Udine, Friuli-Venezia Giulia • Italy**

July 1-3, 2009

**Agenda**

*Tuesday*, June 30, 2009 • Castello di Strassoldo

1530h	Shuttle transfer from hotel to castle	
1600h	Registration and Reception	Gabriella di Strassoldo, <i>Italy</i> Laura Wilhelm, <i>USA</i>
2200h	Shuttle transfer from castle to hotel	

*Wednesday*, July 1, 2009 • Castello di Strassoldo

830h	Shuttle transfer from hotel to castle	
<b>INTRODUCTORY SESSION</b>		
900h	Welcome	Paul Saey <i>University of Vienna, Austria</i>
	Introductions and Overview of WOSMIP	Ted Bowyer <i>PNNL, USA</i>
<b>OVERVIEW OF GLOBAL PRODUCTION</b>		
910h	<b>KEYNOTE</b> – Overview of Mo-99 Production Throughout the World	George Vandegriff, <i>Argonne National Laboratory, USA</i>
950h	<b>KEYNOTE</b> – Production and Use of Radioisotopes and Their Influence on Environmental Radioactivity Monitoring	Natsean Ramamoorthy, <i>IAEA, Austria</i>
1030h	Use of Medical Isotopes	Cathy Cutler, <i>University of Missouri, USA</i>
<b>PRODUCTION FACILITIES</b>		
1120h	Production of Medical and Industrial Isotopes in the BR-2 High Flux Reactor	Bernard Ponsard <i>BNRC, Belgium</i>
1150h	Radioisotopes Production in Libya	Mohamed Sharif <i>Tajoura Nuclear Research Center, Libya</i>
1220h	Potential of Medium Flux Reactors to Produce Radionuclides for Therapy – Polish Experience	Renata Mikolajczak, <i>Radioisotope Centre POLATOM, Poland</i>
1250h	<b>Lunch</b>	
1420h	Medical Isotopes Production on Electron Accelerators	Yu.M. Tsipenyuk <i>PL Kapitza Institute for Physical Problems, Russia</i>
1450h	Radium Institute Experience in Medical Isotopes Production and Application	LM Solin <i>VG Khlopin Radium Institute, Russia</i>
1540h	U.S. Medical Isotope Program Future Vision	Darrell Fisher <i>PNNL, USA</i>

1610h	TBD	Andrew White <i>AECL., Canada</i>
<b>ISOTOPE RELEASES AND SCRUBBING</b>		
1640h	Safeguards Environmental Sampling Methods to Detect Mo-99 Production Signatures	Randa Higgy <i>IAEA, Austria</i>
1710h	By-products in the Production of <sup>18</sup> F and <sup>11</sup> C with a GE PETtrace Cyclotron	Irene Schraick <i>ARC, Austria</i>
1740h	Noble Gas Emissions into the Atmosphere of a Fission Radioisotope Plant	Eduardo Carranza <i>CNEA, Argentina</i>
1800h	End of July 1	
<b>EVENING SOCIAL EVENT</b>		
1810H	Walking tour of nearby Castello di Sotto and Park	Gabriella di Strassoldo <i>Castello di Strassoldo, Italy</i>
1910h	Drive or walk (10 min.) to local rural restaurant; typical food and wine tasting; shuttle transfer to hotel after dinner	

*Thursday*, July 2, 2009 • Castello di Strassoldo

830h	Shuttle transfer from hotel to castle	
<b>ISOTOPE RELEASES AND SCRUBBING continued</b>		
900h	Modeling Production and Release of Radioxenon Gas from Medical Isotope Production Facilities	Steve Biegalski, <i>University of Texas-Austin, USA</i>
930h	Experimental Characterization of IRS Stack Releases	Benoit Deconninck <i>IRE, Belgium</i>
1000h	Detection of Radioxenon Near a Medical Isotope Facility	Anders Ringbom <i>FOI, Sweden</i>
1030h	Advances in Minimization of Fission Gas Release and Nuclear Waste From Large Scale Fission Mo-99 Production Facilities	AA Sameh <i>Germany</i>
1120h	Airborne emissions from ANSTO's new Mo-99 production facility in comparison to the previous LEU process	Emmy Hoffman <i>ANSTO, Austria</i>
1200h	Off-gas/environmental controls for radionuclide production at Petten	Luis Barbosa <i>Coviden, Netherlands</i>
1230h	Commissioning of New LEU fpMo-99 process - process parameters and gaseous emissions	Michael Druce <i>ANSTO, Austria</i>
1300h	<b>Lunch</b>	
<b>MEDICAL ISOTOPES AND THE CTBT IMS NETWORK</b>		
1430h	<b>KEYNOTE</b> – Radioxenon Detections in the CTBT Noble Gas Network Originating from Medical and Industrial Isotope Production Facilities	Paul Saey <i>University of Vienna, Austria</i>
1510h	Increasing the Sensitivity of the International Noble Gas Monitoring Network By Reducing the Radioxenon Background - A Pilot Study	Johan Camps <i>Belgian Research Institute, Belgium</i>
1610h	Detection of Medical and Industrial Isotopes in the CTBT International Monitoring System Network	Emerenciana Duran <i>CTBTO, Austria</i>
1640h	IMS Measurements: A Review of 2008 Data and the Current Capabilities to Support the Civil Character of Related Releases	Matthias Zaehring <i>CTBTO, Austria</i>
1710h	A Nuclear and Meteorological Evaluation of Recent Tc-99m Elevations at IMS Monitoring Sites in South America	Anil Rao <i>United States Air Force, USA</i>
1740h	Iodine-131 and technetium-99m: challenging nuclides in CTBT verification	Murray Matthews <i>New Zealand</i>
1800h	End of July 2	
<b>EVENING SOCIAL EVENT</b>		
1810h	Drive to town of Duino and Duino castle (no stop at hotel); meet with English-speaking guides and tour of castle.	
1900h	Dinner in the small port underneath Duino castle. <i>Note: please advise local organizer in the morning if you prefer not to eat fish.</i> Shuttle transfer to hotel after dinner.	

*Friday, July 3, 2009 • Castello di Strassoldo*

830h	Shuttle transfer from hotel to castle	
<b>POSTER SESSION</b>		
900h	SAUNA II	Helena Berglund <i>GammaData, Sweden</i>
	Age Dating <sup>137</sup> Cs Sealed Source Materials	Margaret Goldberg <i>Argonne National Laboratory, USA</i>
	Portable Equipment for Monitoring of Xenon Isotope	Yury Popov <i>VG Khlopin Radium Institute, Russia</i>
	Assessment of the Mobile Measurements Taken Nearby Isotopic Production Facilities in Belgium and South.	Andreas Becker <i>CTBTO, Austria</i>
	MUR Isotope Program	Cathy Cutler <i>University of Missouri, USA</i>
	Brookhaven Isotope Production Program	Suresh Srivastava <i>Brookhaven, USA</i>
	Telerad: the Radiological Surveillance Network and Early Warning System in Belgium	Michel Sonck <i>Federal Agency for Nuclear Control, Belgium</i>
	Radi Xenon	Kurt Unger <i>Health Canada, Canada</i>
<b>NATIONAL DETECTION PROGRAMS AND INSTRUMENTATION</b>		
1030h	Case Studies from the United States Department of Energy Radiological Triage Program	David Mercer <i>Los Alamos National Laboratory, USA</i>
1100h	Long Term Radi Xenon Measurements by the German Federal Office for Radiation Protection	Matthias Auer <i>BFS, Germany</i>
1130h	Contributions of radionuclide production facilities and nuclear power plants to the detection of <sup>133</sup> Xe by SPALAX systems	Pascal Achim <i>CEA/DASE, France</i>
1200h	Generator of Xenon Isotopes for Medical Tracer Studies	Vladimir Popov <i>VG Khlopin Radium Institute, Russia</i>
<b>ATMOSPHERIC TRANSPORT AND MODELS</b>		
1230h	Backtracking to Determine the Source of Xe-133 Detected in Melbourne November 2009-January 2009	Steven Solomon, <i>ARPANSA, Australia</i>
1300h	<b>Lunch</b>	
1440h	Fission Gas Release from Research Reactors	Georg Steinhauser <i>Vienna University of Technology, Austria</i> <i>University of Hamburg, Germany</i>
1510h	Assessment of Radi Xenon Emissions from Medical Isotope Production Based on Global Tc-99m Consumption	Simon Hebel <i>University of Hamburg, Germany</i>
1540h	The Role of Atmospheric Backtracking in the IMS to Identify Signatures of Isotope Production	Andreas Becker <i>CTBTO, Austria</i>
1640	Roundtable Discussion	
1710	Wrap-Up – Questions and Answers End WOSMIP2009 Workshop	Paul Saey, <i>Vienna University of Technology, Austria</i> Ted Bowyer, <i>PNNL, USA</i>