



WOSMIP2012

Workshop on the Signatures of Medical and Industrial Isotope Production
Pacific Northwest National Laboratory

**Castello di Strassoldo di Sopra
Strassoldo, Friuli-Venezia Giulia, Italy**

June 18-22, 2012

Final Agenda

Monday, June 18, 2012 • Castello di Strassoldo

1500h	Shuttle transfer: Grado bus station – Hotel Internazionale – Strassoldo	
1600h	Registration and Reception – BBQ in the Garden	Gabriella di Strassoldo, <i>Italy</i> Laura Wilhelm, <i>USA</i>
2000h	Shuttle transfer: Strassoldo – Hotel Internazionale – Grado bus station	

Tuesday, June 19, 2012 • Castello di Strassoldo

0820h	Shuttle transfer: Grado bus station – Hotel Internazionale – Strassoldo	
INTRODUCTORY SESSION Chairs: Ted Bowyer, PNNL & Paul Saey, IAEA		
0900h	Welcome	Paul Saey <i>IAEA</i>
0915h	Introductions, Overview of WOSMIP 2012, & a Review of WOSMIP 2011	Ted Bowyer <i>PNNL</i>
0945h	Keynote address: Global Perspective	Ed Bradley <i>IAEA</i>
1015h	Coffee Break	
1035h	Keynote address – Policy Overview	Tim Evans <i>NNSA</i>
11:05h	The Radionuclide Component of the International Monitoring System (IMS) of the Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO)	Patrick Grenard Matthias Auer <i>CTBTO</i>
1205h	Lunch	
1330h	The Year in Review	Judah Friese <i>PNNL</i>
1400h	Roundtable: Recent Events in Medical Isotope Emissions and Monitoring	Judah Friese <i>PNNL</i>
SESSION 1 – REMOTE AND LOCAL DETECTION Chair: Kurt Ungar, Health Canada		
1530h	High-Resolution Meteorological Simulations for Transport and Dispersion Applications	Luke Peffers <i>AFTAC</i>
1600h	Noble Gas Background Measurement Campaigns in the Framework of EU Joint Action III	Mika Nikinnen <i>CTBTO</i>
1630h	Where's Chalk River Laboratory?	Kurt Ungar <i>Health Canada</i>

1700h	Preliminary Plans for Radioxenon Measurements at ENEA	Franca Padoani ENEA
1730h	End of Day 1 of Technical Program	
EVENING SOCIAL EVENT at AGRITURISMO SAN GALLO http://www.sangallo-agriturismo.it/main.html		
1800h	Drive (3 min) or Walk (10 min) to Local Agriturismo San Gallo for a Dinner with Wine Tasting	
2100h	Shuttle transfer: Agriturismo San Gallo – Hotel Internazionale – Grado bus station	

Wednesday, June 20, 2012 • Castello di Strassoldo

0820h	Shuttle transfer: Grado bus station – Hotel Internazionale – Strassoldo	
SESSION 2 – EMISSION CONTROL CHALLENGES WITH NON-SOLID TARGETS CHAIR: Ed Bradley, IAEA		
0900h	Mini-Loop: Experimental Basis for the Production of Mo-99 in an AHR	Tim Policke Babcock & Wilcox
0930h	The SHINE Medical Mo-99 Production System and Potential Off-Gas Control Technologies	Katrina Pitas SHINE Medical
1000h	Mini-SHINE/MIPS Experiments for Development of Mo-99 Production Using an Aqueous Homogenous reactor or an Accelerator-Driven Aqueous Target Solution	George Vandegrift Argonne National Lab
1030h	Coffee Break	
1050h	Mo-99 Separation and Purification from Uranium Solutions	Daniel Amaya INVAP
SESSION 3 – RECENT AND PLANNED ACTIVITIES AT PRODUCTION FACILITIES CHAIR: Ed Bradley, IAEA		
1120h	Update on Alternative Methods for Mo-99 Production	Cathy Cutler University of Missouri
1150h	Status of Radioisotope Production of Mo-99 from FPM using LEU Target and I-131; Current and Increased Production Capacity in the Near Future	Yudiutomo Imardjoko Batan Teknologi
1220h	Lunch	
1330h	Radioisotope Production at Tashkent Reactor	Bekhzod Yuldashev Nuclear Physics of Uzbekistan AS
1400h	Current Activities at Soreq	Ofer Aviv Soreq Nuclear Research Center
SESSION 4 – STACK MONITORING CHAIR: Matthias Auer, CTBTO		
1430h	Iodine Releases Through Charcoal Filter in Molybdenum Production Facility	Benoit Deconninck IRE-Elit
1500h	Emissions of Noble Gases from ANSTO's Mo-99 Production Facility	Emmy Hoffman ANSTO
1530h	Optimization of a Gaseous Effluent Stack Monitor to Measure IPF's Emissions	Mariana di Tada INVAP
1600h	Roundtable: Data Stack Monitoring Sharing	Mika Nikkinen CTBTO
1730h	End of Day 2 Technical Program	
EVENING SOCIAL EVENT at CASTLE OF SPESSA http://www.castellodispessa.it/en/spessa.php		

1800h	Drive (about 30 min) to Castle of Spessa for a Wine Tasting Dinner
2100h	Shuttle transfer: Castle of Spessa – Hotel Internazionale – Grado bus station – Strassoldo

Thursday, June 21, 2012 • Castello di Strassoldo

0820h	Shuttle transfer: Grado bus station – Hotel Internazionale – Strassoldo	
SESSION 5 – TRENDS IN CHEMISTRY AND ABATEMENT CHAIR: A. A. Sameh		
0900h	Processing and Off-Gas Handling of Irradiated LEU Uranium Silicide Targets	A.A. Sameh
0930h	Bench Scale Adsorption Experiments for Reducing the Radioxenon Releases from a Medical Isotope Production Facility	Damien Braekers SCK-CEN
1000h	Actions Taken to reduce Emissions from Mo-99 Production at ANSTO	Michael Druce ANSTO
1030h	Coffee Break	
1050h	Radioiodine Emission Control at KFKI Campus, Budapest	Peter Zagyvai Centre for Energy Research, Hungarian Academy of Sciences
SESSION 6 – INDUSTRY REDUCTION OF EMISSIONS CHAIR: Matthias Auer		
1120h	Issues in Source Term abatement at Nordion	Richard Decaire Nordion
1150h	Lunch	
1300h	Releases from Medical Isotope Production Facilities and Their Effect on Monitoring Nuclear Explosions	Harry Miley PNNL
1330h	Roundtable – Voluntary Emission Reductions: 5x10 ⁹	Judah Friese PNNL
1430h	Roundtable – Multi-tiered Certified Producer Goal	Ted Bowyer Ian Cameron PNNL
1500h	End of Day 3 Technical Program	
SOCIAL EVENT – ISLAND/DINNER TOUR – Grado Golf Club http://www.tenuta-primero.com/sito/		
1500h	Bus transfer to Boat ride to Grado; Dinner at Grado Golf Club	
2130h	Shuttle transfer: Grado – Hotel Internazionale – Strassoldo	

Friday, June 22, 2012 • Castello di Strassoldo

0820h	Shuttle transfer: Grado bus station – Hotel Internazionale – Strassoldo	
POSTER SESSION Morning Coffee Break		
0900h	Poster Session	
	Dissemination of a Primary Standard of C-11 for PET Stack Emission Monitoring	Hilary Phillips <i>National Physical Laboratory (NPL)</i>
	SAUINA – Equipment for Low-Level Measurement of Radioactive Xenon	Helena Berglund <i>Scienta SAUNA Systems</i>
	Processing Stack release Data with a National Data Centre Gamma Spectroscopic Pipeline	Kurt Ungar <i>Health Canada</i>
	Radioxenon Levels detected at IMS Buenos Aires Station, Argentina	Eduardo Quintana <i>Autoridad Regulatoria Nuclear</i>
	Observations of Iodine and Cesium behavior Near the Fukushima Nuclear Power Plant	Steve Kreek <i>Lawrence Livermore National Laboratory</i>
	325u, 238u, 232th, 40K and 137cs Activity Concentrations in Marine Sediments Along the Northern Coast of Oman Sea Using High-Resolution Gamma-Ray Spectrometry	Mohammad Sabzian <i>Shahid Beheshti University</i>
AWARDS PRESENTATION		
1130h	Awards Presentation	
1145h	Lunch	
SESSION 7 – GENERAL MONITORING TECHNOLOGY CHAIR: Mika Nikkinen		
1300h	Xe Ration Complexity form MI Facilities	Paul Saey <i>IAEA</i>
1330h	CTBTO Radionuclide Data Analysis system	Mika Nikkinen <i>CTBTO</i>
1400h	Impact of Source Term Time Resolution on ATM-based Predictions of Radioxenon Concentrations at IMS stations	Michael Schoppner <i>University of Rome</i>
1430h	A Spectral Decomposition Variance Reduction Technique in Xenon Detection	Mohammad Sabzian <i>Shahid Beheshti University</i>
1500h	Radioxenon Measurements by the German federal Office for Radiation Protection and Iodine 131 Detection over Europe 2011 and 2012	Clemens Schlosser <i>BfS</i>
1530h	ANSTO-PNNO-HC Study of Releases and Detection	Harry Miley <i>PNNL</i>
1600h	Workshop Summary and Next Steps	Ted Bowyer <i>PNNL</i>
1630h	End of WOSMIP 2012	
1630h	Shuttle transfer: Strassoldo – Hotel Internazionale – Grado	