

CONFERENCE PROGRAMME

Organized by the:

International Atomic Energy Agency

Hosted by the

Government of Kazakhstan

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President of the Conference:

T. Zhantikin, Kazakhstan

IAEA Secretariat:

Scientific Secretaries: H. Monken-Fernandes
R. Edge

Conference Coordination: H. Schmid
E. Posta

Administrative Support: H. Ratcliffe, A. Junger
R. de Silva

Liaison Officer:

T. Akhmetov, KAEC

Local Coordination:

G. Yeligbayeva, KAEC

Location of the Symposium:

Independence Palace
ulica Manasa, 52 (Manas street)
Astana, Kazakhstan

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Working Language: English

Resolutions: No resolutions may be submitted for consideration on any subject; no votes will be taken.

TIMETABLE

SUNDAY, 17 May 2009

16:00–19:00 Registration on the Conference Premises

MONDAY, 18 May 2009

08:00–09:00 Registration continued
09:00–10:00 Opening Session
10:00–10:30 Coffee/Tea Break
10:30–12:30 Topical Session 1 From Arlington to Astana—
Lessons Learned
12:30–14:00 Lunch Break
14:00–15:15 Topical Session 2 International Cooperation and
Support in Environmental
Remediation
15:15–15:45 Coffee Break
15:45–17:30 Topical Session 2 continued

TUESDAY, 19 May 2009

09:00–10:30 Topical Session 3 Complying with Safety Criteria
10:30–11:00 Coffee/Tea Break
11:00–12:30 Topical Session 3 continued
12:30–14:00 Lunch Break
14:00–15:30 Topical Session 4 Innovative Technologies and
Environmental Remediation
15:30–16:00 Coffee/Tea Break
16:00–17:30 Topical Session 4 continued

WEDNESDAY, 20 May 2009

09:00–10:30 Topical Session 5 Life Cycle Planning and
Stakeholder Issues in
Environmental Remediation
10:30–11:00 Coffee/Tea Break
11:00–12:30 Topical Session 5 continued
12:30–14:00 Lunch Break
14:00–15:30 Topical Session 6 Case Studies I (Environmental
Remediation in Central Asian
Countries)
15:30–16:00 Coffee/Tea Break
16:00–17:30 Topical Session 6 continued

THURSDAY, 21 May 2009

09:00–10:30 Topical Session 7 Case Studies II
10:30–11:00 Coffee/Tea Break
11:00–12:40 Topical Session 7 continued
12:40–14:00 Lunch Break
14:00–15:00 Topical Session 7 continued
15:00–15:30 Coffee/Tea Break
15:30–17:00 Topical Session 8 Expediting and Enhancing
Experience Exchange in
Environmental Remediation
17:15–18:00 Poster Presentation

FRIDAY, 22 May 2009

09:00–10:30 Summary by Session Chairs
10:30–11:00 Coffee/Tea Break
11:00–12:30 Conference Findings,
Closing Addresses &
Closing of the Conference

Posters will be on display throughout the Conference. A poster session will be held on Thursday from 17:00 to 18:00

SUNDAY, 17 May 2009**17:00–19:00** **Registration****MONDAY, 18 May 2009****08:00–09:00** **Registration (cont'd)****09:00–10:00** **OPENING SESSION**

S. Mynbaev
Minister of Energy and Mineral Resources
Kazakhstan

I. Tasmagambetov
Mayor of Astana, Kazakhstan

T. Zhantikin
President of the Conference
Kazakhstan

H. Forsstroem
Director, Nuclear Fuel Cycle and Waste Technology
IAEA

10:00–10:30 **Coffee/Tea Break****10:30–12.30** **TOPICAL SESSION 1**
From Arlington to Astana—Lessons Learned**Chair:** **F. Forsstroem, IAEA**
Rapporteur: **P. Waggitt, IAEA**

<i>No. of Paper IAEA-CN-172/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
001	D. Reisenweaver	USA	Overview of the Arlington Conference – Where were we 10 years ago?
002	A.M. Magauov	Kazakhstan	Remediation Activities in Kazakhstan – Where are we now?
003	A. Gonzalez	Argentina	International Policies and Strategies for the Remediation of Land Contaminated by Radioactive Material Residues
004	Z. Carr	WHO	New UN-Interagency Initiatives for Chernobyl Recovery

12:30–14:00 **Lunch Break**

14:00–17:30

TOPICAL SESSION 2
International Cooperation and Support in
Environmental Remediation

Chair:
Rapporteur:

A. van der Meer, IASTC
S. Nordstrom, OSCE

<i>No. of Paper IAEA-CN-172/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
005	J. Stoutjesdijk	World Bank	Initiatives of the World Bank Supporting Environmental Remediation Programmes
006	S. Nordstrom	OSCE	The OSCE Experience in Central Asia
007	N. Walker	UNDP Kyrgyzstan	Road Map towards Comprehensive and Coherent Solution of Radioactive Toxic Waste in Central Asia
008	J. Mota	EC	Initiatives of the EC Supporting Environmental Remediation Programmes

15:15–15:45

Coffee/Tea Break

009	W. Gudowsky	ISTC	Remediation of Radioactively Contaminated Sites – Review of the Projects Supported by the International Science and Technology Centre (ISTC)
010	B. Salbu	NATO	Initiatives of NATO Supporting Environmental Remediation Programmes
011	Z. Carr	WHO	Environmental Remediation under the Perspective of the WHO
012	E. Harlander	EBRD	Initiatives of the EBRD Bank Supporting Environmental Remediation Programmes
013	H. Forsstroem	IAEA	Environmental Remediation under the Perspective of the International Atomic Energy Agency

17:10–17:30

Discussions

TUESDAY, 19 May 2009

09:00–12:30 **TOPICAL SESSION 3:
Complying with Safety Criteria**

Chair: **A. Gonzalez, Argentina**
Rapporteur: **P. Waggitt, IAEA**

<i>No. of Paper IAEA-CN-172/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
014	R. Edge	IAEA	How the Revision of the IAEA Basic Safety Standard will Affect/ Impact Safety Issues in Environmental Remediation Projects
015	N.K. Shandala	Russian Federation	Prevailing Regulatory Framework in Russia on Environmental Remediation
016	S. Walker	USA	US Standards for Environmental Remediation
017	S. Saint-Pierre	WNA	Safety/Regulatory Criteria from the Perspective of the Industry

10:30–11:00 **Coffee/Tea Break**

018 M. Sneve Norway Adapting International Experience to Regulatory Supervision of Legacy Sites in the Central Asian Republics

11:20–12:30 **Panel Discussion:**
Harmonization of Approaches in
Environmental Remediation

12:30–14:00 **Lunch Break**

14:00–17:30 **TOPICAL SESSION 4:
Innovative Technologies in Environmental
Remediation**

Chair: **V. Adams, USA**
Rapporteur: **H. Monken-Fernandes, IAEA**

019	M. O'Kane	Canada	Application of Cover Systems in Environmental Remediation
020	B. Fabyshenko	USA	Application of Innovative Bioremediation Technologies for Metals and Radionuclides in Soils and Groundwater
021	D. Wellman	USA	Monitored Natural Attenuation of Metals and Radionuclides in Soils and Groundwater
022	D. De Paolo	USA	Innovative Geochemical and Isotopic Methods for Site Characterization and Long-Term Environmental Monitoring of Contaminates Soils and Groundwater

15:30–16:00 **Coffee/Tea Break**

023	G. Yeh	USA	Innovative Mathematical Modelling in Environmental Remediation
024	D. Osborne	Australia	Advancements in the Application of Electrokinetic Techniques in Site Remediation
025	M. Csovari	Hungary	Site Remediation in Practice: Radiological, Hydrological and Geophysical Survey as well as the Post Remediation Water Management

17:10–17:30 **Discussions**

WEDNESDAY, 20 May 2009

09:00– 12:30

**TOPICAL SESSION 5:
Life Cycle Planning and Stakeholder
Issues in Environmental Remediation**

Chair:

M. Paul, Germany

Rapporteur:

H. Monken-Fernandes, IAEA

<i>No. of Paper IAEA-CN-172/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
026	A. Jakubick	Germany	Balancing the Uranium Mining Cycle
027	A. Korre	UK	Life Cycle Modelling of Nuclear Fuel Cycle Activities with a View to Environmental Remediation
028	V. Adams	USA	Life-Cycle Management and a Decision-Making Framework for Cleanup of Contaminated Sites
029	D. Metzler	USA	Remediation of a Mining Operation using Life-Cycle Approach
10:30–11:00	Coffee/Tea Break		
030	Y. Marignac	France	Stakeholder Involvement in Environmental Remediation – Balancing Risk Driven Decision Making and Public Perception
031	D.H. Oughton	UK	Social and Ethical Issues in Environmental Remediation Projects
032	L.P.M. van Velzen	Netherlands	A Consistent Guidance on Remediation of Radioactively Contaminated Site
033	M. Recio	IAEA	Safe Management of Waste, Sealed Sources, Decommissioning, and Site Remediation Activities at the Vin a Institute
12:10–12:30	Discussions		
12:30–14:00	Lunch Break		

14:00–17:30

**TOPICAL SESSION 6:
Case Studies I
(Environmental Remediation
in Central Asian Countries)**

**Chairperson:
Rapporteur:**

**A. Kim, Kazakhstan
D. Reisenweaver, USA**

<i>No. of Paper IAEA-CN-172/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
034	P. Stegnar	Slovenia	Legacy of Uranium Extraction and Environmental Security in the Central Asian Republics of Kazakhstan, Kyrgyzstan, Tajikistan and Uzbekistan
035	I. Shishkov	Kazakhstan	Radiological Situation in Kazakhstan
036	M. Yunusov	Tajikistan	Wastes from Uranium Production in Tajikistan and their Problems
037	I. Torgoev	Kyrgyzstan	Minimization of Environmental Risk from U Tailings in Kyrgyzstan
15:30–16:00	Coffee/Tea Break		
038	E. Danilova	Uzbekistan	Radiological and Environmental Situation at Decommissioned Uranium Mines in Uzbekistan
039	M. Burkitbaev	Kazakhstan	Radioecological Investigations in Kazakhstan in the Frame of NATO "Science for Peace Programmes"
040	B. Salbu	NATO	Multiple Stressors: Environmental Impacts of Sites Contaminated by Radionuclides and Metals
041	M. Iskakov	Kazakhstan	Industrial Environmental Monitoring as an ISL Lands Restoration Costs Tracking Tool

THURSDAY, 21 May 2009**09:00–12:30** **TOPICAL SESSION 7:
Case Studies II****Chairperson:** **B. Salbu, NATO**
Reporteur: **R. Edge, IAEA**

<i>No. of Paper IAEA-CN-172/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
042	P. Lu	Australia	Challenges in Estimating Publics Radiation Dose Resulting from Land Application of Waters of Elevated Natural Radioactivity at Ranger Uranium
043	M.R. Franklin	Brazil	Overcoming the Constraints that Prevent the Full Implementation of Decommissioning/Remediation Programs in Uranium Mining Sites – The Brazilian Experience
044	R. F. Ortega	Mexico	Lessons Learned from the Remediation at Villa Aldama Uranium Extraction Plant
045	M.L. Dinis	Portugal	Occupational Exposure during Remediation Works at an Uranium Tailing Pile
10:30–11:00	Coffee/Tea Break		
046	F. Saidou	Cameroon	NORM measurements: Case of the Uranium Bearing Region of Poli in Northern Cameroon
047	S. Velicu	Romania	Romanian Experience in Remediation of NORM Contaminated Sites – a Case Study
048	T.V. Lavrova	Ukraine	Radioecological Assessment and Remediation Planning of Uranium Milling Facilities at the Pridneprovsky Chemical Plant in Ukraine
049	P. Schmidt	Germany	Experience Gained in Transferring WISMUT Radiation Protection Know-How to International Projects in Uranium Mining Remediation
050	L. Delgove	France	Evaluation of Radiological Impact on Environment of Remediated Uranium Mill Tailings Storages
12:40–14:00	Lunch Break		

14:00–15:00 **TOPICAL SESSION 7 (cont'd):
Case Studies II**

Chairperson: **B.Salbu, NATO**
Reporteur: **R. Edge, IAEA**

<i>No. of Paper IAEA-CN-172/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
051	S. Fesenko	IAEA	Justification of Remediation Strategies in the Long Term after the Chernobyl Accident
052	I. Adsley	UK	Experiences in the Remediation of Contaminated Land
053	I. Zinger	Sweden	Assessment of Current Doses from Uranium Tailings

15:00–15:30 **Coffee/Tea Break**

15:30–17:00 **TOPICAL SESSION 8:
Expediting and Enhancing Experience
Exchange in Environmental Remediation**

Chairperson: **D. Louvat, IAEA**
Reporteur: **M. Recio - IAEA**

054	R. Edge	IAEA	Consolidating the Experience on Environmental Remediation in the Central Asian Region
055	H. Monken-Fernandes	IAEA	The ENVIRONET – A Network of Centres of Excellence on Environmental Remediation
	Discussion on future International initiatives		

17:15–18:00 **POSTER PRESENTATION**

FRIDAY, 22 MAY 2009

09:00–10:30

**CLOSING SESSION:
Compilation of the Main Issues
in each Session**

Session Chairpersons of each Session

10:30–11:00

Coffee/Tea Break

11:00–12:30

**Conference Findings by the
President of the Conference:
T. Zanthikin**

Closing of the Conference

POSTERS

Posters will be on display throughout the Conference.

Poster authors are requested to be at their posters
At the Poster Session on Thursday, 21 May, from 17:15–18:00

<i>No. of Paper IAEA-CN-172/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
056P	N. Kamel	Algeria	Effect of the Synthesis Method on the property of (j)PO4 a rare-earth phosphate used for the confinement of high-level radioactive waste
057P	N. Tsurikov	Australia	Classification, Management and Remediation Strategies for Contaminated Sites in Western Australia
058P	Y.V. Putyatin	Belarus	Remediation of Lands Contaminated by 137Cs and 90Sr based on Agro-Ecological Optimums of Soil Physicochemical Properties
059P	R. Rahman	Bangladesh	The Detection of Sellafield Radionuclides in Salt Marshes from NW England: Potential Health Risks
060P	R.M. Almeida	Brazil	Design Criteria for a NORM Remediation Project in Sao Paulo City, Brazil
061P	J. Macacini	Brazil	Estimation of Committed Effective Dose Due to Inhalation of Aerosol in the Brazilian Mining Industry
062P	J. Macacini	Brazil	222Rn Exhalation from the Tailings Dam of the First Brazilian Nuclear Facility in Decommissioning Process
063P	P.R.B. Marinho	Brazil	Decommissioning: Past Experience and Foreseen Situation in Brazil
064P	A. Simo	Cameroon	Environmental Issues Associated with Uranium Mining and Land Remediation in Less Developed Countries
065P	N.H.M. Kamel	Egypt	Natural Radioactivity in Some Environmental Samples in Egypt
066P	J.M. Metivier	France	Spatial Analysis of Soil by Natural Radionuclides and Contamination by Anthropogenic Radionuclides for a Northern Sector of the Semipalatinsk Test Site
067P	E. Glover	Ghana	Environmental Radioactivity Assessment within the Premises of the Ghana Atomic Energy Commission and its Environs
068P	A. Dody	Israel	Growing of Biological Soil Crust over Contaminated Area - Lab Experiments
069P	Y. Kuyanova	Kazakhstan	Environmental Contamination with Strontium-90 at a Site within the Former Soviet Nuclear Test Site at Semipalatinsk, Kazakhstan
070P	B. Uralbekov	Kazakhstan	Uranium in Natural Waters within Former Uranium Mining Sites in Kazakhstan and Kyrgyzstan
071P	P. Kayukov	Kazakhstan	Results of Survey of Radiation Situation in the Republic of Kazakhstan under the Republican Program 011
072P	A. Valeev	Kazakhstan	Modern Condition and Mapping of Radioecological Situation in the Atyrau and Mangystau Regions
073P	M. Meshin	Kazakhstan	Activities on Elimination of Hazardous Radiation Conditions at the Area of Iryshskiy Chemical and Metallurgical Plant (ICMP), Nuclear Waste Disposal and Adjacent Territories
074P	A. Kim	Kazakhstan	Radioactive Waste Management Regulation in Kazakhstan
075P	T.H. Nurakhmetov	Kazakhstan	Evaluation of Concentration of Radionuclides in Natural Objects using the TLD Setup Sapfir-001 in the Area Adjacent to the Semipalatinsk Test Site

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076P	O. Gorbatenko	Kazakhstan	In-situ Teaching Method in Uranium Production in Kazakhstan
077P	V.N. Glucshenko	Kazakhstan	Elimination of the Consequences of Nuclear Tests at the Azgir Site and Contemporary Radiation Situation
078P	A. Poleshko	Kazakhstan	Rehabilitation of the Territories within the Zone of Uranium-Mining Industry effect Taking Zhakent-Arasan Object as an Example
079P	S.N. Lukashenko	Kazakhstan	Planning the Measures of Radiation Hazard Reducing Taking a Plot of Radiocontamination at the SNTS's Site of Fighting Radioactive Substance Test as an Example
080P	A. Tuleushev	Kazakhstan	Elimination of Radiocontamination at the Sites of Underground Nuclear Explosion Tests at the Ustyurt Plateau
081P	N. Ageyeva	Kazakhstan	Complex Investigation of LIRA Facilities and Securing Radiation Safety at the Karachaganak Oil-Condensate Field
082P	K. Kuterbekov	Kazakhstan	Remediation Action on Objects and Sites of Radioactive Contamination in Magistau Obast of the Republic Kazakhstan
083P	Y. Strilchuk	Kazakhstan	Radiation Situation at Priirtyshie Pine Forest Area
084P	A. Shadrack	Kenya	Radiation Protection of Workers from Radioactive Material in Kenya
085P	A. W. Karigi	Kenya	Optimization of Occupational Radiation Protection during Remediation Activities
086P	B.H. Fawaris	Lybia	Impact of TE-NORM on the Safety of Workers and Environment and in Oil and Gas Production fields
087P	I. Bahari	Malaysia	Radiological Risk and Recommendation for Remediation of Tin Slag Containing NORM Dump Sites in Penang, Malaysia
088P	L. Coretchi	Rep. of Moldova	Bioremediation of Land Contaminated by Radioactive Material
089P	T. Zhunussova	Norway	Regulatory Support in Radiation Safety, Radioactive Waste Management and Uranium Mill Tailings Remediation in Kazakhstan, Tajikistan and Kyrgyz Republic
090P	B. Michalik	Poland	Remediation of Areas Contaminated by Radium due to Coal Mining
091P	F. Carvalho	Portugal	Environmental Radioactivity Monitoring around the Uranium Milling Waste Disposal Site at Urgeirica, Portugal
092P	F. Carvalho	Portugal	Preliminary Radiological Assessment of two Rehabilitated Former Uranium Mining Sites in Portugal
093P	Y. Karlin	Russia	Using Modular Installations for Cleaning LRW at Remediation of the Land Contaminated by Radionuclides
094P	L.A. Kuznetsov	Russia	Ranking of Storage Facilities of Solid Radioactive Wastes on the Risk to Make Decision about Decommissioning
095P	O. Slavik	Slovakia	Remediation of Radioactively Contaminated Land at the Bohunice NPP-A 1 Site, Slovakia
096P	U. Mirsaidov	Tajikistan	Ecological Condition around the Uranium Tailing Pits in Gafurov – City (North of Tajikistan)
097P	U. Mirsaidov	Tajikistan	Monitoring and Remediation of the Legacy Facilities and Sites in Tajikistan
098P	J. Jamsangtong	Thailand	Remediation of ¹³⁷ Cs Contaminated Acid Sulfate Soil by Liming: Lysimeter Experiment at Ongkarak Nuclear Research Center, Nakorn Nayok Province, Thailand

<i>No. of Paper IAEA-CN-172/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
099P	A. Lamine	Tunisia	National and International Policies and Strategies of Polluted Sites in Tunisia
100P	I. Adsley	United Kingdom	Bulk Assay Techniques for Use in the Remediation of Contaminated Land
101P	M. Pearl	United Kingdom	Selection of Remedial Solutions for Contaminated Land for a Part of the Dounreay Nuclear Site, and Integration with the Decommissioning and Restoration Plans for the Site
102P	I. Gramotkin	Ukraine	Final Status of Chernobyl NPP Site at Decommissioning Strategy Implementation
103P	V. Bebeshko	Ukraine	Program of Medical and Biophysical Control of Personnel, which take part in Works for Transformation of Object Shelter of CHNPP into Safe System
104P	D.W. Reisenweaver	USA	IAEA Preliminary Assessment of the Former French Nuclear Test Sites in Algeria

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Governments of Member States and those organizations whose activities are relevant to the meeting subject matter are invited to designate participants for IAEA scientific conferences and symposia. In addition, the IAEA itself may invite a limited number of scientists as invited speakers. Only participants designated or invited in this way are entitled to present papers and take part in the discussions.

Representatives of the press, radio, television or other information media and members of the public, the latter as "observers", may also be authorized to attend, but without the right to take part in the proceedings.

PUBLICATIONS

Proceedings

The proceedings of the conference, including the findings and recommendations, will be published by the IAEA as soon as possible after the conference.

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445	Applicability of Monitored Natural Attenuation at Radioactively Contaminated Sites	2006
1403	The Long Term Stabilization of Uranium Mill Tailings	2004
424	Remediation of Sites with Dispersed Radioactive Contamination	2004

FORTHCOMING SCIENTIFIC MEETINGS SCHEDULED BY THE IAEA

2009

FAO/IAEA Symposium on Sustainable Improvement of Animal Production and Health
8-12 June, Vienna, Austria

Int'l Symposium on Uranium Raw Material for the Nuclear Fuel Cycle: Exploration, Mining, Production, Supply and Demand, Economics and Environmental Issues (URAM-2009)
22-26 June, Vienna, Austria

Int'l Conference on Opportunities and Challenges for Water Cooled NPP's in the 21st Century
27-30 October, Vienna, Austria

Int'l Conference on Fast Reactors and Related Fuel Cycles - Challenges and Opportunities
7-11 December, Kyoto, Japan

Int'l Conference on Effective Nuclear Regulatory Systems
14-18 December, Cape town, South Africa

For information on forthcoming scientific meetings, please consult the IAEA web site: <http://www.iaea.org/>

2010

Int'l Conference on Human Resource Development for Introducing and Expanding Nuclear Power Programmes
14-18 March, Abu Dhabi, United Arab Emirates

Int'l Conference on Management of Spent Fuel from Nuclear Power Reactors
31 May-4 June, Vienna, Austria

Int'l Conference on Operational Safety Experience and Performance of Nuclear Power Plants and Fuel Cycle Facilities
21-25 June, Vienna, Austria

23rd IAEA Fusion Energy Conference
11-16 October, Daejon, Republic of Korea

Int'l Conference on Challenges Faced by Technical and Scientific Support Organizations (TSO) in Enhancing Nuclear Safety and Security
25-29 October, Tokyo, Japan

Symposium on International Safeguards: Preparing for Future Verification Challenges
1-5 November, Vienna, Austria

Int'l Symposium on Standards, Applications and Quality Assurance in Medical Radiation Dosimetry
9-12 November, Vienna, Austria

