

International Conference on Control and Management of Inadvertent Radioactive Material in Scrap Metal

**Tarragona, Spain
23-27 February 2009**



PROGRAMME

International Conference on Control and Management of Inadvertent Radioactive Material in Scrap Metal

*Conferencia internacional sobre
control y gestión de materiales
radiactivos inadvertidamente
presentes en la chatarra*

**Tarragona, Spain
23-27 February 2009**

*Tarragona, España
23-27 de febrero de 2009*

PROGRAMME *PROGRAMA*

CONFERENCE LOCATION:

Universitat Rovira i Virgili

Facultat de Ciències Jurídiques

Campus Centre, Avinguda Catalunya 35

43002 Tarragona (Spain)

<http://agora->ice.urv.es/scrap_conference2009/eng/index.php?option=com_content&view=article&id=9&Itemid=7

Working Language: English and Spanish with simultaneous translation*Idiomas de trabajo: Inglés y español, con traducción simultánea***Resolutions:** No resolutions may be submitted for consideration on any subject, no votes will be taken.*Resoluciones: No habrá resoluciones sobre ningún tema; no se realizará ninguna votación*

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C. Martínez Ten, President on Nuclear
Safety Council (CSN), Spain

PROGRAMME COMMITTEE:

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	M. Markkanen	STUK-Finland

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	C. Sánchez	UNESID-Spain
	A. García-Franco	FER-Spain
	J. Lorente	FER-Spain

IAEA CONFERENCE SECRETARIAT:

Conference Coordination	H. Schmid R. Perricos
Editor:	G. Linsley

TIMETABLE

Sunday, 22 February 2009

16:00–20:00 Registration

Monday, 23 February 2009

09:00–09:40 **Opening Session**

09:40–10:30 **Session I: Global Perspective**
Sesión I: Perspectiva global

10:30–11:00 Coffee break

11:00–13:00 **Session I: Global Perspective**
Sesión I: Perspectiva global

13:00–14:30 Lunch Break

14:30–15:30 **Session I: Global Perspective**
Sesión I: Perspectiva global

15:30–16:00 Coffee Break

16:00–18:00 Panel Session 1

19:00 Welcome Reception at the City Hall

Tuesday, 24 February 2009

09:00–10:40 **Session II : National Policies and Strategies**
Sesión II: Políticas y estrategias nacionales

10:40–11:15 Coffee Break

11:15–13:00 **Session II : National Policies and Strategies**
Sesión II: Políticas y estrategias nacionales

13:00–14:30 Lunch Break

14:30–16:00 Panel Session II

16:00–16:30 Coffee Break

16:30–17:30 Panel Session II

Wednesday, 25 February 2009

09:00–10:40 **Session III: Compliance with radiological criteria: Monitoring, characterization and good operational practices**
Sesión III: Cumplimiento con los criterios

radiológicos: vigilancia, caracterización y buenas prácticas operativas

10:40–11:00	Coffee Break
11:00–13:00	Session III: Compliance with radiological criteria: Monitoring, characterization and good operational practices <i>Sesión III: Cumplimiento con los criterios radiológicos: vigilancia, caracterización y buenas prácticas operativas</i>
13:00–14:30	Lunch Break
14:30–16:00	Panel session III
16:00–16:30	Coffee Break
16:30–17:30	Panel session III

Thursday, 26 February 2009

09:00–10:40	Session IV: Management of incidents with contaminated scrap metal <i>Sesión IV: Gestión de incidentes con chatarra contaminada</i>
10:40–11:15	Coffee Break
11:15–13:00	Session IV: Management of incidents with contaminated scrap metal <i>Sesión IV: Gestión de incidentes con chatarra contaminada</i>
13:00–14:30	Lunch Break
14:30–16:00	Panel session IV
16:00–16:30	Coffee Break
16:30–17:30	Panel session IV
20:00	Conference Dinner

Friday, 27 February 2009

09:00–10:40	Session V: Improving confidence and protecting the interest of stakeholders <i>Sesión V: Mejora del nivel de confianza y protección de los intereses de las partes involucradas</i>
10:40–11:00	Coffee Break
11:00–11:20	Conclusions and general remarks
11:20–12:00	Closing session
12:30	Technical Visit

Sunday, 22 February 2009

16:00–20:00 **Registration**

Monday, 23 February 2009

09:00 **Opening Session**

J. F. Ballesteros, Mayor of Tarragona
F. X. Grau Vidal, Rector Magnífico of the Rovira i Virgili University
J. I. Bartolomé, General Director UNESID
A. García-Franco, General Secretary of the Spanish Federation of Recovery and Recycling
A. Maure Muñoz, General Director of the Generalitat de Catalunya
J. Lang-Lenton, Director of ENRESA
E. Amaral, Division Director at the IAEA
F. Fernández, Commissioner of the CSN

Session I: Global Perspective

Perspectivas globales

Chairpersons: A. García Franco, Spain and J. I. Bartolomé, Spain
Rapporteur: J. Lorente, Spain and M. Hannan, IAEA

Presentations:

09:40 A. Rodríguez, Former IEC-BIR Chairman
Orphan sources management in the scrap recycling sector, a closer approach

Gestión de las fuentes huérfanas en el sector de reciclado de la chatarra: un enfoque más directo

10:05 R. W. Meehan, USA
Challenges in management of potentially contaminated scrap metal

Desafíos en la gestión de la chatarra potencialmente contaminada

10:30–11:00 Coffee Break

- 11:00 G. Moffat, EUROFER
The needs and views of the steel makers industry
Necesidades y puntos de vista de la industria siderúrgica
- 11:30 P. O’Sullivan, OECD-NEA
The relevance for the nuclear industry decommissioning programs
Relevancia para los programas de clausura del sector nuclear
- 12:00 D. Louvat, IAEA
International Safety Regime (Conventions, Code of Conduct, Safety Standards, etc. including guidance on control orphan sources, contaminated scrap metal and monitoring for compliance with clearance and criteria).
Régimen Internacional de Seguridad (Convenciones, Código de Conducta, Normas de Seguridad, etc., incluida recomendaciones sobre el control de fuentes radiactivas huérfanas, chatarra contaminada y seguimiento del cumplimiento de los requisitos de exención).
- 12:30 A. Janssens, EC
European legislation and guidance to prevent loss of control of sources and to recover orphan sources, and other requirements relevant to the scrap metal industry
Legislación europea y recomendaciones para prevenir la pérdida de control de fuentes y recuperar las fuentes huérfanas, y otros requisitos de relevancia para la industria de la chatarra

13:00 – 14:30 Lunch Break

14:30	<p>M. Rodríguez, Spain</p> <p>The relevance for other sectors fully or partially regulated (radioactive source applications in medicine, industry research and education; petroleum and gas exploration)</p> <p><i>Relevancia para otros sectores total o parcialmente regulados (aplicaciones de fuentes radiactivas en la medicina, la industria, la investigación y la educación y en la prospección del gas y del petróleo)</i></p>
15:00	<p>S.M., Stephenson, UNECE</p> <p>Application of the UNECE recommendations on monitoring and response procedures for radioactive scrap metal: from theory to practice</p> <p><i>Aplicación de las recomendaciones de la UNECE sobre procedimientos de vigilancia y respuesta frente a la presencia de radiactividad en la chatarra: de la teoría a la práctica</i></p>
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15:30–16:00	<i>Coffee Break</i>
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16:00–18:00	Panel Session I
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19:00	<p><i>Welcome Reception hosted by the City Council of Tarragona at the Jaume I Courtyard of the City Hall</i></p> <p>Recepción de bienvenida ofrecida por el Ayuntamiento de Tarragona en el Patio Jaume I del Ayuntamiento</p>
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Tuesday, 24 February 2009

Session II: National policies and strategies

Políticas y estrategias nacionales

**Chairperson: J. Arana, Spanish
Ministry of Industry**

**Rapporteur: S. Oliver, Spain and D.
Louvat, IAEA**

Presentations:

09:00

J. M. Redondo, Spain
The Spanish protocol

El protocolo español

09:25

C. Fayers, United Kingdom
UK Code of practice for clearance of
material

*Código de práctica británico para la
desclasificación de materiales con contenido
radiactivo*

09:50

D. Kopsick, USA
Reducing uncontrolled radioactive sources
through training and tracking: US EPA
initiatives

*Reducción de las fuentes radiactivas
incontroladas a través de la formación y el
seguimiento: Iniciativas de la Agencia de
Protección Ambiental de los Estados Unidos*

10:15

M. Nizamska, Bulgaria
Transboundary movements: lessons learned

*Movimientos transfronterizos: lecciones
aprendidas*

10:45–11:15 Coffee Break

11:15

E. Correa, Brazil
Assignment of responsibilities in the
management of scrap metal in Brazil

*Asignación de responsabilidades en la gestión
de la chatarra en Brasil*

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- 11:40 R. Themines, France
Melting and recycling strategy in the dismantling of Georges Besse Eurodif gaseous diffusion plant
Estrategia de fundición y reciclado en el desmantelamiento y clausura de la planta de difusión gaseosa Georges Besse de Eurodif
- 12:05 P. E. Mohajane, South Africa
Legislative and regulatory control for the safety of radioactively contaminated scrap metals generated from mining and minerals processing facilities in South Africa
Control legislativo y regulador para garantizar la seguridad de la chatarra contaminada con materiales radiactivos procedente de instalaciones mineras y del procesamiento de metales en Sudáfrica
- 12:30 O. Makarovska, Ukraine
Prevention, detection and response system for occasional radioactive material in the scrap metal in Ukraine
Sistema de prevención, detección y respuesta para chatarra con presencia ocasional de material radiactivo en Ucrania

13:00–14:30 *Lunch Break*

14:30 **Panel Session II**

16:00–16:30 *Coffee Break*

16:30–17:30 **Panel Session II**

**Session III: Compliance with radiological criteria:
Monitoring, characterization and good
operational practices**

*Cumplimiento con los criterios
radiológicos: vigilancia, caracterización
y buenas prácticas operativas*

**Chairpersons: J. R. Armada, Spain
and**

A. Rodríguez, Spain

**Rapporteur: J. Lacey, USA and L.
Jova, IAEA**

Presentations:

09:00 A. González, Argentina
Exclusion, exemption and clearance in the
frame of the control and management of
inadvertent radioactive material in scrap
metal

*Exclusión, exención y desclasificación en el
marco del control y la gestión de material
radiactivo inadvertidamente presente en la
chatarra.*

09:25 S. Chen, USA
Activities and issues in monitoring scrap
metal against radioactive sources

*Actividades y aspectos a considerar en la
vigilancia de la chatarra para prevenir la
presencia de fuentes radiactivas*

09:50 A. Stritar, Slovenia
Slovenian system for protection against illicit
radioactive material in scrap metal
shipments

*Sistema esloveno para la protección contra la
presencia de material radiactivo ilícito en los
cargamentos de chatarra*

10:15 S. Clarke, USA
The availability and performance of detection
equipment

*Disponibilidad y funcionamiento de los equipos
de detección*

10:40 – 11:00 *Coffee Break*

11:00 S. Thierfeldt, Germany
Monitoring of scrap metal – experience with radioactive sources and activation/fission products
Vigilancia radiológica de la chatarra – experiencia con fuentes radiactivas y productos de activación/fisión

11:25 G. Laurent, France
VLLW Characterization and recycling for sustainable development
Caracterización y reciclado de residuos de muy baja actividad para un desarrollo sostenible

11:50 G. Nabakhtiani, Georgia
The experience in countries with limited resources
La experiencia en países con recursos limitados

12:15 P. Carboneras, Spain
The accumulated experience derived from the application of the Spanish “protocol” and other initiatives of the authorities
La experiencia acumulada derivada de la aplicación del “protocolo” español y otras iniciativas de las autoridades

12:40 T. Micheletti, Argentina
The need for training in the metal recycling industry
La necesidad de formación en la industria del reciclado de metales

13:05–14:30 *Lunch Break*

14:30 **Panel Session III**

16:00–16:35 *Coffee Break*

16:30 **Panel Session III**

Thursday, 26 February 2009

Session IV: Management of incidents with contaminated scrap metal

Gestión de incidentes con chatarra contaminada

Chairperson: E. Amaral, IAEA
Rapporteur: M. Markkanen, Finland and
E. Reber, IAEA

Presentations:

- 09:00 E. Brewitz, Sweden
Experience in Sweden
Experiencia en Suecia
- 09:20 K. R. Singh, India
Radioactive contamination in steel products.
Indian experience
Contaminación radiactiva en productos de acero. Experiencia de la India
- 09:40 J. Ramanandraibe, Madagascar
Experience in management of consequences of incident with contaminated scrap metal
Experiencia en la gestión de las consecuencias de incidentes con chatarra contaminada
- 10:00 E. Huhtalo, Finland
Experience in monitoring and dealing with radioactivity in recycling steel at Outokumpu Tornio Works
Experiencia en la vigilancia y el manejo de materiales radiactivos en el acero reciclado en la Acería de Outkumpu Tornio
- 10:20 C. Sánchez, Spain
Experience in management of incident with contaminated scrap metal in Spanish industries
Experiencia en la gestión de incidentes con chatarra contaminada en industrias españolas

10:40–11:00 *Coffee Break*

11:00	J. P. García, Spain Incidents with contaminated scrap metal. Lessons learned in Spain <i>Incidentes con chatarra contaminada. Lecciones aprendidas en España</i>
11:20	A. Cortés., Mexico Accidental Cs-137 source melting in a steel mill in Mexico <i>Fundición accidental de una fuente de Cs-137 en una acería de México</i>
11:40	O. Turak, Hungary Hungarian practice and some typical cases <i>Práctica húngara y algunos casos típicos</i>
12:00	B. Zerger, France Experience in France <i>Experiencia en Francia</i>
12:20	R. Mezzanotte, Italy Orphan sources in metal scrap and contaminated products. Experience and regulation in Italy <i>Fuentes huérfanas en la chatarra y productos contaminados. Experiencia y reglamentación en Italia</i>
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12:40–14:30	<i>Lunch Break</i>
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14:30	Panel Session IV
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16:00–16:30	<i>Coffee Break</i>
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16:30–17:30	Panel Session IV
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20:00	<i>Conference Dinner</i>
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Friday, 27 February 2009

Session V: Improving confidence and protecting the interest of stakeholders

Mejora del nivel de confianza y protección de los intereses de las partes involucradas

Chairperson: D. E. Klein, USA and J. C. Lentijo, Spain

Rapporteur: P. Carboneras, Spain and G. Linsley, IAEA

Presentations:

- 09:00 R. Bartley, BIR
The view of the industry
El punto de vista de la industria
- 09:15 C. Einberg, USA
The view of the nuclear authorities
El punto de vista de las autoridades nucleares
- 09:30 D. P. Ropeik, USA
The view on risk perception
El punto de vista técnico sobre la percepción del riesgo
- 09:45 M. Toharia, Spain
The role of the media
El papel de los medios de comunicación
- 10:00 J. M. Roncero, Spain
The view of the consumers
El punto de vista de los consumidores
- 10:15 Open discussion

10:40–11:00 Coffee Break

11:00–11:20 Conclusions and general remarks

Conclusiones y observaciones generales

L. M. Ramos, Chairperson of the Programme Committee, CSN

11:20–12:00 **Closing session**
Sesió de clausura
**J. Poblet i Tous, Head of the
Diputació de Tarragona**
J. A. Pina, President of ENRESA
E. Amaral, Division Director, IAEA
**T. Santero Quintillá, General
Secretary of the Ministry of Industry**
C. Martínez Ten, President of the CSN

12:00 End of the conference

12:30 **Technical Visit to the factory of
CELSA in Barcelona (registration
needed)**

*Visita técnica a la factoría de CELSA en
Barcelona (se requiere inscripción)*

LIST OF CONTRIBUTED POSTERS

Posters Code	Name	Designating Member State/ Organization	Title of poster
101	R.M. Shamukuni	Botswana	Involvement of in- terested parties and public in the control and management of inadvertent radioactive material in scrap metal dealers in Botswana
102	F.K. Kabuya	Congo	Experience and management of metals and devices containing radioactive materials in the Democratic Republic of the Congo
103	M. Abdel Geleel	Egypt	Regulation of spent sealed sources comparison study
104	R. Naivo	Madagascar	Radioactivity monitoring of scrap metal: the case of Madagascar
105	O. Mamdough Yassin	Sudan	Status of scrap metals monitoring in Sudan
106	S. Maamar	Tunisia	Control of radiation scraps at the factory Elfouladh
201	L.R. Berdeja Amatller	Bolivia	Evaluación de contaminación en la chatarra en Bolivia
202	N.J. Ruperto Junior	Brazil	Contaminated scrap metal: difficulties to detect
203	R. Hernández Álvarez	Cuba	National training plan design for the personnel involved in the scrap metal stream in Cuba

Posters Code	Name	Designating Member State/ Organization	Title of poster
204	O. Domínguez Ley	Cuba	Cuban experiences in the scrap radiological control
205	Y. López Forteza	Cuba	Safety requirements verification enforcement during the recycling of metal scrap
206	Y. López Forteza	Cuba	Cuban experience on the radiological control in the recycling of metal scrap in the period 2002-2007
207	Y. Alonso González	Cuba	A regulatory view of the radiological control of the scrap metal in Cuba
208	R.E. Torres Gómez	El Salvador	Control and security of the sources of ionizing radiations in El Salvador
209	M. L. Idoyaga Navarro	Paraguay	The need of radiological regulatory control of the scrap metal in Paraguay
210	M.C. Mallaupoma Gutiérrez	Perú	Strategy for the management of radioactively contaminated scrap metal and national experience in Peru
211	A. Nader	Uruguay	Control and management of inadvertent radioactive material in scrap metal

Posters Code	Name	Designating Member State/ Organization	Title of poster
301	M. Abdus Sattar	Bangladesh	Regulatory control and national policy of inadvertent radioactive sources in scrap metal in Bangladesh
302	S. Zainus	Indonesia	Control and management of scrap metal arising for decommissioning petrokimia gresik phosphoric acid urification plant
303	B. Hajizadeh	Iran, Islamic Republic of	Experiences for control of scrap metal at the borderlines and metal recycling industries in Islamic Republic of Iran
304	K. Choi	Korea	Development of risk assessment methodology for reusing low level radioactive waste from decommissioning of nuclear power plant
305	K. Monalija	Malaysia	Management of radioactive material for the prevention of entering the recycling stream: Regulatory approach
306	E.M. Valdezco	Philippines	Philippine initiative in the establishment of a national system for the monitoring of scrap metal

Posters Code	Name	Designating Member State/ Organization	Title of poster
307	U.W.K.H. de Silva	Sri Lanka	Regulatory control methods used in Sri Lanka for control of uses & unauthorized movements of radioactive sources
308	U. Mirsaidov	Tajikistan	Monitoring of radioactive scrap metal and response procedures in the Republic of Tajikistan.
401	M. Schrauben	Belgium	Belgian global approach on the radiological surveillance of radioactive substances in metal scrap and non-radioactive waste
402	M. Koskelainen	Finland	Metal industry views in Finland on clearance and possible disposition alternatives
403	G. Trajkov	F.Y.R. of Macedonia	Control and management of inadvertent radioactive material in scrap metal in the Republic of Macedonia
404	J. Feinhals	Germany	Perspective of clearance values
405	S. Seferlis	Greece	Establishment of national system for the surveillance and control in the recycling of metallic materials

Posters Code	Name	Designating Member State/ Organization	Title of poster
406	A. Zvirbule	Latvia	Illicit trafficking control in scrap metal management
407	S. Jovanovic	Montenegro	Possibilities for radioactive material characterization in scrap metal using semiconductor gamma-detectors with angle software
408	R. Trindade	Portugal	Radioactive scrap metal in Portugal: an overview
409	S. Serban	Romania	Nuclear and radiological control relate to "The inadvertent radioactive material in scrap metal", in Romania
410	P. Adamek	Slovakia	Control and management of inadvertent radioactive material in scrap metal - Slovak experience and strategies
411	L.S. Quindós Poncela	Spain	Radiological protection in steel factories: 10 years of collaboration experience between university and industry
412	G. Gokeri	Turkey	Legislation of Turkey in control and management of inadvertent radioactive material in scrap metal

Posters		Designating	
Code	Name	Member State/ Organization	Title of poster
413	V. Seyda	Ukraine	Dismantling and treatment of radioactively contaminated equipment at Chernobyl NPP

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