

**International Conference on Occupational Radiation Protection:
Enhancing the Protection of Workers – Gaps, Challenges and Developments**

Vienna, Austria, 1-5 December 2014

OPENING SESSION

Past and present perspectives on occupational radiation protection

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- PAST -

- The first Conference
 - The International Conference on Occupational Radiation Protection: Protecting Workers Against Exposure to Ionizing Radiation
 - in Geneva in 2002
- the Action Plan for Occupational Radiation Protection

Events 2002

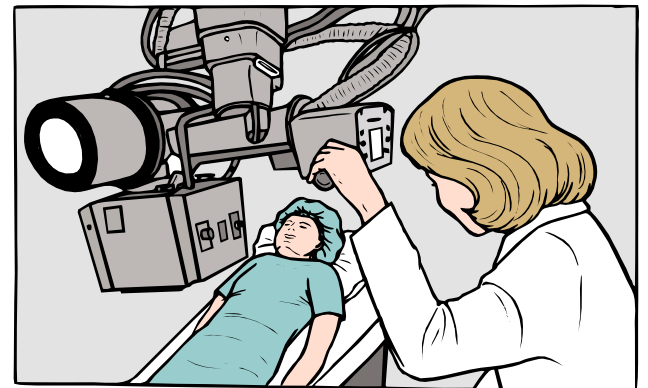
The Euro becomes the official currency of twelve of the European Union's Members

- PAST -

- Information System on Occupational Exposure (ISOE)
 - launched in 1992
 - to provide a forum for radiation protection professionals
 - to share dose reduction information
 - to share operational experience
- European ALARA networks
 - dealing with optimization of all types of occupational exposures
 - to facilitate the dissemination of good ALARA practices

What remains?

- The number of occupationally exposed workers in medicine has been continuously increasing.



What remains?

- The more nuclear medicine technologists care patients who are injected with radiopharmaceuticals, the more they need radiation protection.



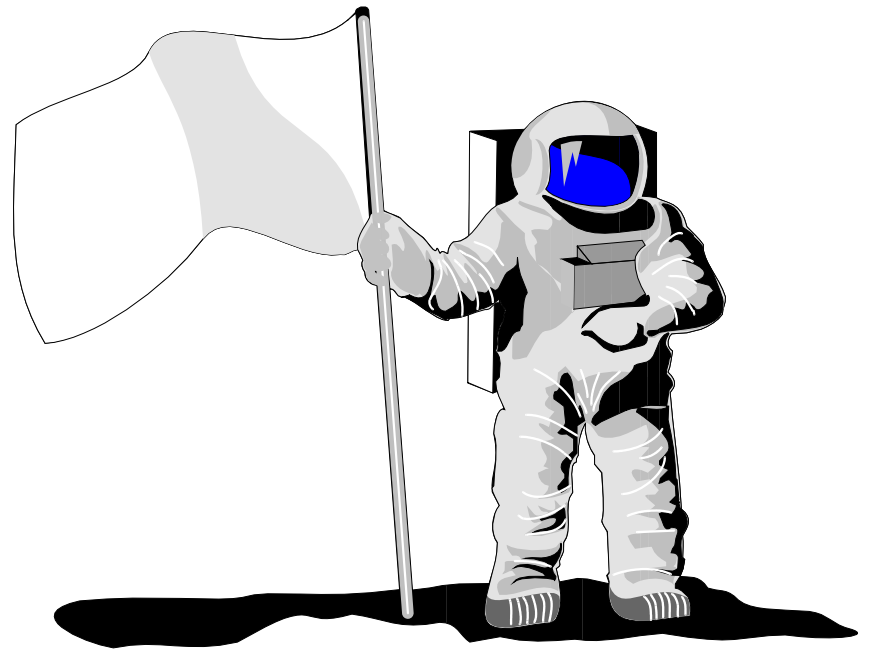
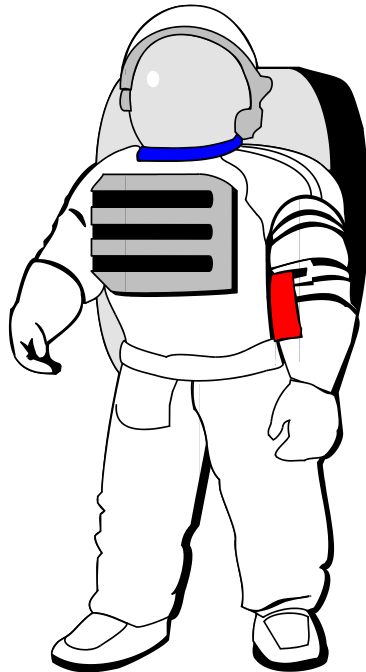
What remains?

- There are requirements for regulations in NORM industries.



What remains?

- The Mars Odyssey finds signs of huge water ice deposits on the planet Mars in 2002.

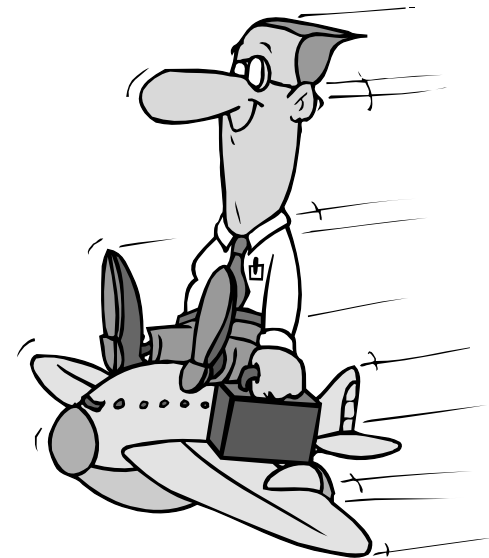


- REGULATION -

- IAEA Safety Standards; Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards - No. GSR Part 3 (BSS)
- The 2007 Recommendations of the International Commission on Radiological Protection (ICRP)
 - justification,
 - optimisation, and
 - application of dose limits.

- Safety of Workers -

- female workers who have notified pregnancy
- female workers who are breast-feeding
- workers in existing exposure due to radon
- aircrews in existing exposure of due to cosmic radiation



- ACCIDENTS in JAPAN -

- The JCO nuclear criticality accident in the chemical processing facility in Tokai-mura in 1999
- The accident of Tokyo Electric Power Company (TEPCO)'s Fukushima Daiichi Nuclear Power Station (NPS) on 11 March 2011



Contents of the *Pandora's Box*

- To develop the concept of occupational radiation for justifying it
- To develop the concept to be understood by workers and their families
- To develop the concept by taking into the following three questions

Question in *Pandora's Box*

What level of radiation exposure can be acceptable for workers who engage emergency response on site of nuclear facilities during emergencies?

Question in *Pandora's Box*

What level of radiation exposure can be acceptable for workers who engage management of radioactive materials in mid and long terms after nuclear emergencies?

Question in *Pandora's Box*

What level of radiation exposure can be acceptable for workers who have the increasing possibility of radiation exposure with the development of science and technology?

What brings me here

Vienna



Tokyo

What you will take away home



I got job,
But
Accompanied
By
Radiation
exposure

Whenever WORKERS need YOU:

