

WOSMIP Communication



Pledge signing ceremony at WOSMIP IV. <http://www.ctbto.org/press-centre/press-releases/2013/breakthrough-in-mitigating-radioxenon-emissions/>.

WOSMIP V

Plans for the next WOSMIP are underway. WOSMIP V will be held in Brussels, Belgium May 12 - 14, 2015 at the Egmont Palace.

The development of the technical program is in progress and will include:

- Update from producers
- Update on international monitoring
- Update on emission control R&D
- Work on data sharing policies
- And much more!

Recent Meetings

Mo-99 Topical Meeting

A social event was held at the Mo-99 Topical Meeting in Washington D.C. last June. This event was hosted by PNNL to help maintain engagement between WOSMIP sessions. The event provided an opportunity for the WOSMIP community to meet and catch up in an informal setting.

Thanks to everyone that was able to attend.

8th International Conference on Isotopes and Expo

The 8th International conference on Isotopes and Expo was held in Chicago this August 24-28, 2014. Several interesting sessions focused on ⁹⁹Mo production by fission and activation. The large ⁹⁹Mo community turnout made it a great chance to meet with members of the WOSMIP community that were in attendance.

Publication Highlight

The impact of radioxenon emissions from planned fission based ⁹⁹Mo production in the Republic of Korea on detection of nuclear explosions was studied in a recent paper by Bowyer et al. Modeling projected that radioxenon emissions of 10¹² Bq/day would cause significant background interference compared to 10⁹ Bq/day.

Bowyer et al. **2013**, Journal of Environmental Radioactivity 129:43-47

Pledge Signings

The WOSMIP community has been contacting medical isotope producers to encourage them to consider signing the CTBTO Radioxenon Emission Pledge at or before WOSMIP V in May. The current pledge signees include ANSTO, Coqui IRE, NorthStar, and PT Batan. Goals of the pledge include:

- Reducing isotopic releases as far as reasonably achievable to minimally impact monitoring of nuclear explosions.
- Explore means to share their xenon monitoring data with the CTBTO.
- Support CTBTO upon request with information regarding radioxenon emissions in order to improve the interpretation or clarification of International Monitoring System (IMS) radioxenon data.

CRP on Xenon Emissions

The IAEA is planning a Coordinated Research Project (CRP). This CRP will be focused on creative ways to reduce xenon emissions from medical isotope facilities with objectives of:

- Fostering collaboration between current and future producers of medical radioisotopes.
- Determination of internationally accepted targets for select radioactive gaseous emissions.
- Produce a summary of factors which affect the emissions.
- Determination of methods to reduce emissions to the determined level.

Further information can be found on the IAEA website:

<http://cra.iaea.org/cra/stories/2014-09-15--F23031-Radioisotope-emissions.html>