



**WOSMIP VII** December 3-7 2018  
Pullman Sydney Hyde Park Hotel | 36 College Street  
Sydney, Australia

01 October 2018

Dear all,

The call for abstracts has been extended to October 15th for the 7th Workshop on Signatures of Man-Made Isotope Production (WOSMIP-VII) being held in Sydney, Australia from 3-7 December 2018 near the Australian Nuclear Science and Technology Organization (ANSTO). To register for the workshop or submit an abstract, please visit our new website at <https://www.wosmip.org/>.

This workshop provides a unique forum for technical discussions and collaborations to discuss the impact of radioisotopes released from civil and industrial sources on nuclear explosion monitoring in support of the Comprehensive Nuclear-Test-Ban Treaty (CTBT). This workshop aims to unite experts from radioisotope and nuclear explosion monitoring communities for a 4-day friendly scientific meeting.

This year's workshop will be organized into several scientific sessions. The focus areas will be:

- Introduction/Plenary
- Overview of Current and Future Fission based Mo-99 Production
- Alternative Xenon source terms
- Stack release data, local and remote detections
- Atmospheric Transport
- R&D efforts on emission reduction
- Other topics related to detection, equipment, analysis, or signatures of man-made isotope production

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**Introduction/Plenary:** The introduction/plenary session will focus on scientific and industry leaders discussing their viewpoints on the issue of radionuclide detection in monitoring systems. An overview of the International Monitoring System (IMS) and the International Data Center (IDC) of the Preparatory Commission of the CTBTO and importance of continued isotope production will be discussed.

**Overview of Current and Future Fission based Mo-99 Production:** The overview of current and future fission-based Mo-99 production session will have brief updates from the worldwide production facilities. This session will also include facilities that are in the process of beginning production in the future.

**Alternative Radionuclide source terms:** The session on alternative xenon and other radionuclide sources will focus on all other sources of radionuclide beyond fission-based Mo-99 production. This could include sources from power and research reactors as well as the use of radionuclide medically and industrially.

**Stack release data, local and remote detections:** The session on stack release data will focus on the collection and use of data collected at the stack of facilities that may emit radionuclides. This will include a discussion of the new STAX project, detector technology for both local and remote detection, as well as linkages between stack and remote detections.

**Atmospheric Transport:** The Atmospheric Transport session will continue to better understand the atmospheric radionuclide background in terms of the source characteristics (source strength, location, isotopic ratios) and impact on the IMS stations and detectability of nuclear explosion signatures.

**R&D efforts on emission reduction:** This session will discuss research on the reduction of emissions from radionuclide source terms.

**Other topics related to detection, equipment, analysis, or signatures of man-made isotope production:** This session may have a variety of areas that relate to the broad topic of isotopes found in the environment, their measurement, and related issues.

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Support from both the monitoring and isotope production communities is critical to maintaining the success of previous WOSMIPs, and new participation is strongly encouraged.

IMPORTANT NOTE REGARDING VISAS

As a reminder, participants are encouraged to register early; all passport holders other than Australian Citizens require an entry visa for Australia. It is imperative that you commence this process immediately as some passport holders may be required to wait up to 60 days for approval of their Australian Visa.

Additional information, including regarding the workshop venue, accommodation, and entry visa for Australia is available through our website.

We look forward to you joining us at WOSMIP VII!  
The WOSMIP Organization Committee