

## Practical Aspects of Nuclear Disarmament Verification

27 April 2018

13h15–14h45

Room VIII, United Nations Office at Geneva

This lunchtime event will introduce UNIDIR's ongoing research projects in the field of nuclear disarmament verification. Presenters from the Institute will discuss the political and technical challenges that must be addressed in the development of any mechanisms to enable reliable verification of one of the key elements of disarmament—removal of nuclear weapons from a State, territory, or facility—done as part of the weapons consolidation and subsequent elimination process.

- 13h15 Welcoming Remarks  
**Renata Dwan**, *Director, UNIDIR*
- 13h20 Introduction  
**Jarmo Viinanen**, *Ambassador, Senior Adviser, Ministry for Foreign Affairs of Finland*
- 13h30 Removal of Nuclear Weapons in the Context of Nuclear Disarmament  
**Pavel Podvig**, *Senior Researcher, UNIDIR*
- 13h40 Verifying the Removal of Nuclear Weapons: Past and Future  
**Wilfred Wan**, *Researcher, UNIDIR*
- 13h55 Tools and Procedures for Verifying the Absence of Nuclear Weapons  
**Ryan Snyder**, *Researcher, UNIDIR*
- 14h10 Questions and Answers
- 14h40 Concluding Remarks

The meeting will be held in English.

Interested participants are invited to register with their names and affiliations with [wilfred.wan@un.org](mailto:wilfred.wan@un.org). For those without a UNOG badge, registration is obligatory.

A sandwich lunch will be available at 13h00 outside the room.

*With support from Estonia and Finland for “Verifying the Absence of Nuclear Weapons” activities and from Carnegie Corporation of New York and the MacArthur Foundation for “New Approaches to Transparency in Nuclear Security and Disarmament” activities.*

## Recent Relevant Publications

### **Reducing the Role of Nuclear Weapons in North East Asia**

*Nick Ritchie, 2018*

This paper, produced with support from the Hiroshima Prefecture, examines how to reduce the role of nuclear weapons in North East Asia, a subject given added salience by recent nuclear-related crises and deterioration of relations between powers involved in the region.

<http://www.unidir.ch/files/publications/pdfs/reducing-the-role-of-nuclear-weapons-in-north-east-asia-en-701.pdf>

### **Negotiation of a Nuclear Weapons Prohibition Treaty: Nuts and Bolts of the Ban**

#### **The New Treaty: Taking Stock**

*Yasmin Afina, John Borrie, Tim Caughley, Nick Ritchie and Wilfred Wan, 2017*

In July 2017, 122 States adopted the Treaty on the Prohibition of Nuclear Weapons. This paper briefly traces the context and course of its negotiation. It comments on the key features of the treaty, on its relationship with other treaties, and on next steps towards nuclear disarmament. This paper is the third in a series of UNIDIR briefs on the “nuts and bolts of a ban”.

<http://www.unidir.org/files/publications/pdfs/-en-687.pdf>

#### **The NPT and the Prohibition Negotiation: Scope for Bridge-building**

*Paul Meyer and Nick Ritchie, 2017*

Paul Meyer’s article in this publication examines nuclear deterrence and lessons for allies. Nick Ritchie’s piece explores the relationship between the nuclear disarmament, the NPT, and a nuclear weapons ban treaty. This publication was produced with support from the Hiroshima Prefecture.

<http://www.unidir.org/files/publications/pdfs/the-npt-and-the-prohibition-negotiation-en-682.pdf>

#### **Deferred verification: Verifiable Declarations of Fissile Material Stocks**

*Pavel Podvig and Joseph Rodgers, 2017*

This report describes a verification arrangement that would allow the future Fissile Material Cutoff Treaty to include declarations of existing fissile material stocks that would cover all categories of materials, including materials in nuclear weapons. This arrangement, referred to as “deferred verification,” could support verification of initial declarations of fissile material stocks and the gradual elimination of all weapon-related fissile materials.

<http://unidir.ch/files/publications/pdfs/deferred-verification-verifiable-declarations-of-fissile-material-stocks-en-694.pdf>

#### **Understanding Nuclear Weapon Risks**

*John Borrie, Tim Caughley, and Wilfred Wan (editors), 2017*

Drawing on a range of expert perspectives, this multi-author study contributes to the facts-based discourse about nuclear weapons. In exploring various sources of nuclear weapon risk, it provides a foundation for further dialogue and information-sharing towards reducing the risk of detonation.

<http://www.unidir.org/files/publications/pdfs/understanding-nuclear-weapon-risks-en-676.pdf>

#### **Lock them Up: Zero-deployed Non-strategic Nuclear Weapons in Europe**

*Pavel Podvig and Javier Serrat. 2017*

This paper presents a proposal to ensure that all “non-strategic” or “tactical” nuclear weapons present on the European continent remain non-deployed during peacetime, codifying current practices into a legally-binding, verifiable arrangement—thereby reducing the risks of nuclear war breaking out in times of peace and placing safeguards against nuclear escalation in times of crisis.

<http://unidir.ch/files/publications/pdfs/lock-them-up-zero-deployed-non-strategic-nuclear-weapons-in-europe-en-675.pdf>