

2022 - Nuclear Weapons: New Risks

- The Castiglioncello International Conference series started in 1985, with the purpose of analyzing current issues in disarmament.
- Last editions:
 - 2017: International Security in the Trump Era
 - 2019: The Crisis of the Arms Control Regime
- Unfortunately risks connected to nuclear weapons have only increased in the course of the past years, and even more with the Russia-Ukraine war.
- Try to assess critically what are the risks and what can be done to avert the possibility





Very intense program.

Terrific presentations.

Complex and profound discussion.

Many thanks to speaker, chairs, and participants !

October 21, 2022

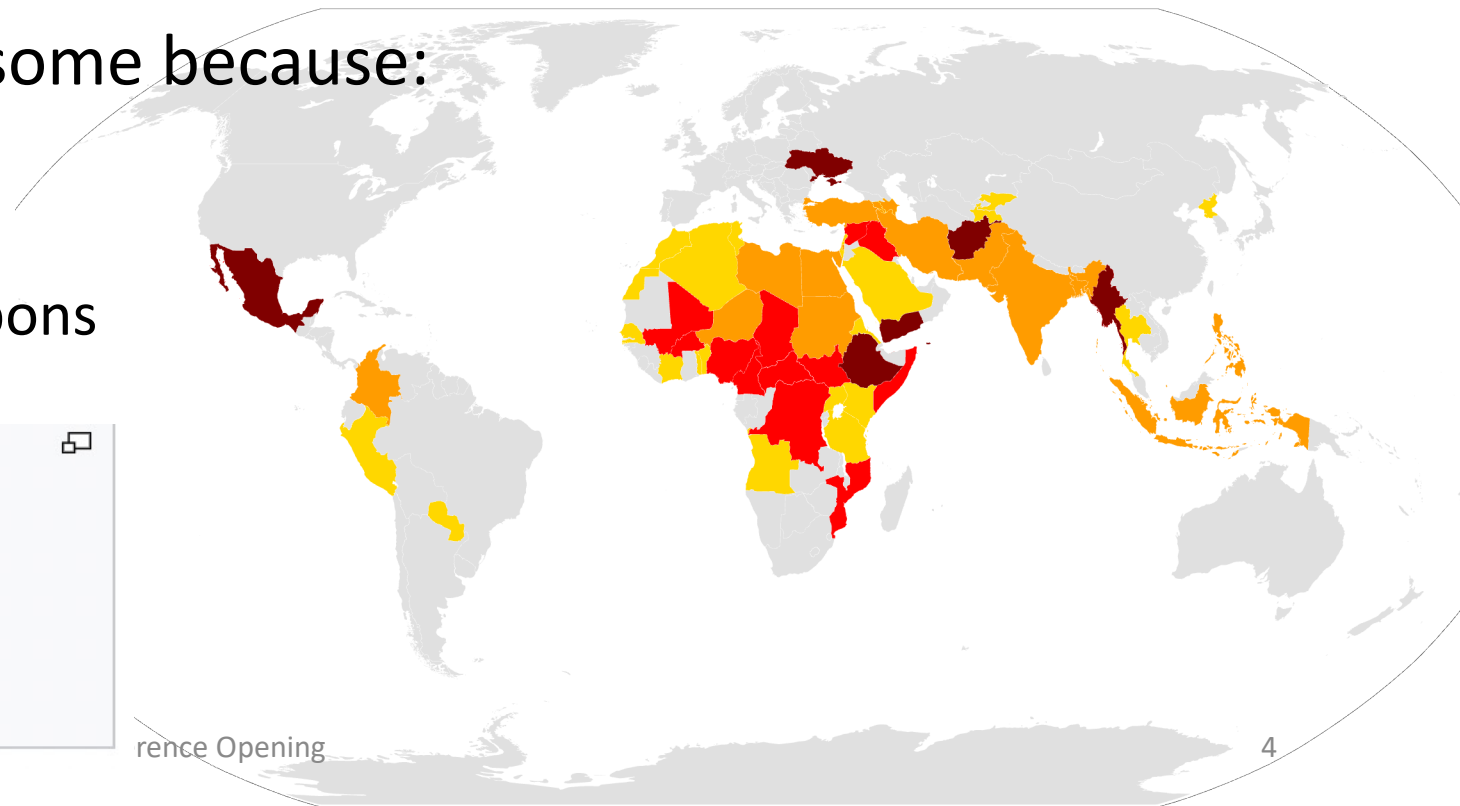
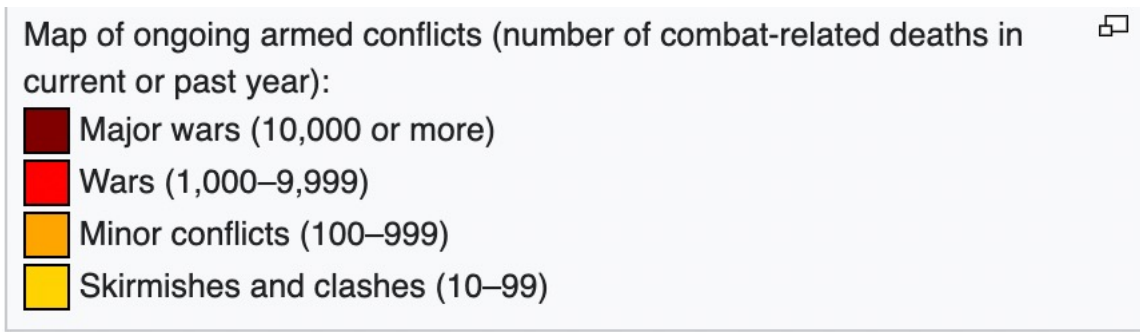
|  USPID | | 19th Castiglioncello International Conference Nuclear Weapons: New Risks In memory of Pietro Greco October 21-23, 2022 - Castiglioncello (Livorno) | |  Pugwash <small>CONFERENCES ON SCIENCE AND WORLD AFFAIRS</small> <small>Nobel Peace Prize 1995</small> | |
|---|---|---|---|--|------------------------|
| Fri, Oct 21, 2022 | | Sat, Oct 22, 2022 | | Sun, Oct 23, 2022 | |
| 09:00 | Welcome from the local authorities. Conference opening | | Session: Use of Nuclear Weapons (Chair: Carlo Schaerf) | 09:00 | Assemblea USPID |
| | Session: Russia - US-Russia relationships (Chair: Nicola Cufaro Petroni) | 09:00 | Carlo Trezza: No First Use as a step towards nuclear disarmament | | |
| 10:00 | Paolo Cotta Ramusino: Ukraine and US-Russia relationships | 10:00 | Guglielmo Tamburrini: Nuclear Weapons and the militarization of AI | | |
| 11:00 | Coffee Break | 11:00 | Coffee Break | 11:00 | Coffee break |
| 11:30 | Sergey Batsanov: Disintegrating architecture of arms control and security: can we save what still remains and renew strategic stability efforts? | 11:30 | Session: The Middle East (Chair: Marilù Chiofalo) Katriina Simonen: Pugwash and arms control in a divided world? | | |
| | | 12:30 | Emad Kiyaei: Weapons of Mass Destruction (WMD) disarmament and nonproliferation in the Middle East | | |
| 12:30 | Lunch break | 13:30 | Lunch break | 13:30 | Lunch |
| 14:30 | Session: Treaties (Chair: Francesco Calogero) Maurizio Antonini: NPT: assessment of 10th Review Conference and preparations for the next cycle (remote) | 15:00 | Session: Non proliferation (Chair: Mario Rocca) Francesca Giovannini: The evolving role of tactical nuclear weapons in nuclear deterrence doctrine (remote) | | Adjourn |
| 15:30 | Barbara Gallo: The erosion of the non-proliferation regime; causes and consequences. | | Lisa Clark: The TPNW as a treaty promoted by civil society (canceled) | | |
| 16:30 | Coffee Break | 16:00 | Coffee Break | | |
| 17:00 | Session: Nuclear Arsenals (Chair: Alice Saltini) Marta Durin: Nuclear sharing: the US nuclear arsenal in Europe | 16:30 | Round table (Chair: Francesco Lenci) Nuclear Weapons: New Risks | | |
| 18:00 | Hans Kristensen: Nuclear Weapons Operations and Risks in Europe 2022 | 18:00 | Francesco Forti: Concluding remarks | | |
| 20:30 | Dinner | 20:30 | Dinner | | |

Some remarks – not a summary

- There are greater risks of nuclear war today than probably any other moment in the past.
- Public perception of the risk and possible consequences seems to be completely inadequate
- New technologies such as AI can increase rather than decrease risks
- The continuous deterioration of international relationships and reduction of communication lines is making the situation much worse
- Many of the treaties that were put in place on the road of nuclear disarmament are not really working
- There is a huge gap between hopes (e.g. TPNW) and reality (no shared document from NPT revision conference)

Resolution of conflicts

- Hope: war should never be used in the resolution of conflicts
- Reality: we have many ongoing wars, most of them in areas which we (westerners) do not care so much about.
 - https://en.wikipedia.org/wiki/List_of_ongoing_armed_conflicts
- Russia-Ukraine war is worrisome because:
 - Much closer to us
 - On a vast scale
 - Threat of using nuclear weapons



Perception

- There exist very different and divisive perceptions and perspectives on the Russia-Ukraine war.
 - Ranging from identifying Putin has the sole culprit to laying all responsibilities on western expansionism.
- Radicalization of the conflict represents a huge danger because it closes communication lines and leaves no option other than fighting harder and harder.
 - Possibly escalating the war up to the use of nuclear weapons
- It should always be remembered that in conflicts there are at least two sides and the perception is by definition very different on each side.
 - Double-standards are very often applied to assign responsibilities
 - Seeking good-faith negotiated solutions to conflicts is only only way forward

The role of USPID

- Difficult to provide specific recipes.
- Keep exploring possible solutions and inform the public and the policy-makers of the current issues and risks
- Continue pushing for diplomacy and negotiated solutions of conflicts, remembering that “inclusion, dialogue, respect - and objectivity” must be included in policies and negotiations in the Pugwash spirit.
- We should keep trying to make our politicians more aware, informed, and reactive
- **A nuclear war cannot be won and should never be fought.**

Professor Albert Einstein was asked by friends at a recent dinner party what new weapons might be employed in World War III. Appalled at the implications, he shook his head.

After several minutes of meditation, he said. “I don’t know what weapons might be used in World War III. But there isn’t any doubt what weapons will be used in World War IV.”

“And what are those?” a guest asked.

“Stone spears,” said Einstein.

Made possible through the support of

- Frontier Detector for Frontier Physics Association
 - President Prof. Angelo Scribano
- Ricerca Fondamentale in Fisica Association
 - President Prof. Marcello Giorgi
- Centro Interdisciplinare Scienze per la Pace
 - Director Prof. Enza Pellecchia
- Many thanks also to Mauro Giannini who provided the audio system for the conference



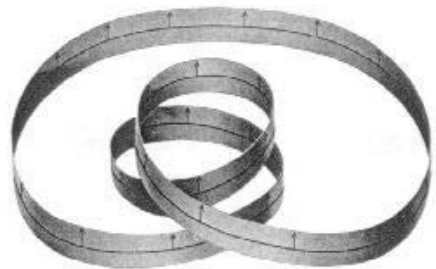
19TH CASTIGLIONCELLO INTERNATIONAL CONFERENCE

Nuclear Weapons: New Risks

In memory of Pietro Greco

October 21-22, 2022 – Hotel Atlantico – Castiglioncello (Livorno)

<https://uspid.org/cast2022/>



USPID

Farewell



On behalf of the organizing committee:
Marilù Chiofalo, Giuliano Colombetti, Paolo Cotta Ramusino,
Francesco Forti, Diego Latella, Francesco Lenci, Enza Pellecchia,
Alice Saltini