Everything You Treasure For a World Free From Nuclear Weapons



This exhibition is designed to provide a forum for dialogue, a place where people can learn together, exchange views and share ideas and experiences in the quest for a better world. We invite you to bring this "passport to the future" with you as you walk through the exhibition. Please use it to write notes about what you treasure, what you feel and what actions you plan to take in and for the future.



How do we protect the things we treasure?

connected over space and time. In recent decades, the reality of that interdependence—the degree to which we influence, impact and require each other—has become increasingly apparent. Likewise, the choices and actions of the present generation will impact people and the planet far into the future. As we become more aware of our interdependence, we see that benefiting others means benefiting ourselves, and that harming others means harming ourselves. Just as we cannot obtain all the things we need without the cooperation of others, we cannot protect the things we treasure alone, in isolation, or in conflict with others.

Every action has an effect. These effects may be felt in ways and places we cannot imagine. The desire to protect the things and people we love from harm is a primal human impulse. For thousands of years, this has driven us to build homes, weave clothing, plant and harvest crops...

This same desire—to protect those we value and love from other people—has also motivated the development of war-fighting technologies. Over the course of centuries, the destructive capability of weapons continued to escalate until it culminated, in 1945, in the development and use of nuclear weapons. No one is immune. Global threats impact us all.

Freedom from fear, freedom from want

from want Our planet continues to be wracked by violent conflict. People around the world endure unacceptable burdens of poverty and hunger. Human rights violations and discrimination wound human bodies and hearts every day. Natural disasters can strike at any moment, instantly robbing people of their lives, undermining the foundations of entire societies. Economic crises create profound disruption in people's lives, as do environmental degradation and the effects of climate change. The possibility of a deadly global pandemic remains a constant presence.

Catastrophic humanitarian consequences

The Stockholm International Peace Research Institute (SIPRI) reports that there were approximately 13.400 nuclear warheads on Earth as of 2020. The longer these weapons continue to exist, the greater the likelihood they will be used. Any use of nuclear weapons will cause catastrophic humanitarian consequences instantly killing vast numbers of people, incinerating population centers and disrupting the global climate. Of all the threats facing humankind, that posed by nuclear weapons is the most acute and catastrophic—and the most preventable.

A pyramid of violence

Nuclear weapons—the most destructive by far of all our tools of war—are at the peak of a pyramid of violence. As the pyramid spreads downward it reaches into our daily lives. Conflict and mistrust between communities, crime, domestic violence and abuse—even the biting comment—are all part of the larger culture of violence. Threat of Nuclear War Regional Armed Conflicts Low-level Conflict Societal Violence "The reason that I hate the atomic bomb is because of what it does to the dignity of human beings."



— Tsutomu Yamaguchi The only officially recognized survivor of both the Hiroshima and Nagasaki atomic bombings

The atomic bombings of Hiroshima and Nagasaki

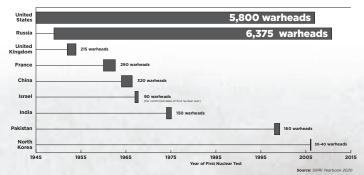
On 6 August 1945, an American B-29 bomber dropped a nuclear bomb over the center of Hiroshima, Japan. It exploded about 600 meters above the city with a blast equivalent to about 16 thousand tons (kilotons) of high explosive TNT. Although that is only a fraction of the destructive power of today's nuclear weapons, the air blast, intense heat and radiation released by the nuclear explosion caused enormous death and destruction. By the end of 1945, approximately 140,000 people had died.

Three days after the first bombing, on 9 August 1945, another B-29 dropped a second atomic bomb on Nagasaki, directly above the industrial city. The resulting explosion had a blast yield equivalent to 21 thousand tons (kilotons) of TNT. An estimated 70,000 people had died by the end of the year.

The threat posed by nuclear weapons is not a thing of the past—it is a threat we face today.

Many states are developing nuclear energy capacities that would make it relatively easy for them to build nuclear weapons should they decide to do so. The possibility that terrorist organizations will acquire such weapons is also real. The danger that these apocalyptic weapons will be used—by accident, or deliberately, in an act of madness hangs over all of us.

World nuclear forces



Everything you treasure could be reduced to ash in a moment.

"Cities Are Not Targets!" -Mayors for Peace

"The right of belligerents to adopt means of injuring the enemy is not unlimited."

—The Hague Conventions, 1899

In every culture, war has its rules and protocols. Among these is the idea that there is a difference between the conditions of war and peace, that wars should be ended in ways that make peace possible, that a distinction will be drawn between soldiers and civilians, that the destruction and death of war should be limited and contained.

The massive destructive force of nuclear weapons makes distinguishing between civilian and military targets impossible. The long-term impacts would undermine the social and ecological foundations of future generations of human society.

80km

Radioactive fallout spreads. Over time. many thousands will die from radiation, sickness and cancers.

10km About half die from trauma and burns. Many succumb soon after to fires and

KM -

3km

ctive fireball hotter than the vith the force of 100,000 ton

Effects of a 100-kiloton nuclear bomb

Civilian casualties of war ory of war in the 20th century was y of increasing disregard for these hs. During World War I, 5% of the lities were civilians; in World War II, t half were. Today the proportion ha ed 75% or more in internal conflicts.







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neo





1868 St. Petersburg Declaratio (the first formal agreeme prohibiting the use of certain weapons in war)



International humanitarian law and nuclear weapons States parties for the first time explicitly expressed "deep concern at the catastrophic humanitarian consequences of any use of nuclear weapons," and reafirmed "the need for all States at all times to compil with applicable international humanitarian law."

In 1961, the United Nations General Assembly adopted a resolution Assembly adopted a resolution declaring that: "Any State using nuclear and thermo-nuclear weapons is to be considered as violating the Charter of the United Nations, as acting contrary to the laws of humanity and as committing a crime against mankind and civilization."

In 1996, the International Court of Justice issued an advisory opinion stating that the use or threat of use of nuclear weapons would generally be contrary to the principles of international law.

humafitarian law." In 2017, the Treaty on the Prohibition of Nuckera Weapons (TPKW) was adopted at the UN. It prohibits a full range of nuclear-weapon-related activities, such as developing, testing, producing, manufacturing, acquiring, possessing or stockpiling nuclear weapons, as well as using or threatening to use these In the final document of the Review Conference of the Nuclear Non-Proliferation Treaty in 2010,

International Red Cross and Red Crescent Movement



"In the view of the ICRC. preventing the use of nuclear weapons requires fulfillment of existing obligations to



of the Red Cross (ICRC) Presiden Kellenberger issued an historic ap nuclear weapons. In his Kellenberger stree

pursue negotiations aimed at prohibiting and completely eliminating such weapons through a legally binding international treaty.



"Nuclear weapons are the greatest environmental danger to the planet from humans, not global warming or ozone depletion."







Fires resulting from a nuclear exchange between India and Pakistan would generate at least 5 billion kilograms of smoke. Calculations based on weather patterns for an average May 15 show that within 49 days soot particles would blanket the inhabited Earth, creating conditions of perpetual overcast. Source: Local Nuclear War, Alan Robock and Owen Brian Toon, 2009

Nuclear famine

CAUTIO

RADIOACTIVE

-Alan Robock Climate scientist and author of "Climatic Consequences of Nuclear Conflict"

While the danger of war between the US and Russia has receded, the threat remains and the risks of nuclear war involving other countries have increased. Using South Asia as an example, experts have estimated that even a limited regional nuclear war involving 100 Hiroshima-sized nuclear weapons—less than 0.1% of the explosive yield of the global nuclear arsenal—would result in tens of millions of immediate deaths and unprecedented global climate disruption.

Weapons production

The process of producing nuclear weapons, from uranium mining through testing, has polluted vast amounts of soil and water at nuclear weapons facilities all over the world. Many of the substances released, including plutonium, and uranium, remain hazardous for thousands, some for hundreds of thousands, of years.

Hanford Nuclear Reservation



"Models made by Russian and American scientists showed that a nuclear war would result in a nuclear winter that would be extremely destructive to all life on Earth; the knowledge of that was a great stimulus to us, to people of honor and morality, to act."

—Mikhail S. Gorbachev

Since 2007, climate scientists who worked with the late Carl Sagan in the 1980s—Alan Robock, O. B. Toon, Michael Hills and their colleagues at Rutgers University and the University of Colorado at Boulder—have renewed efforts to estimate the climate effects of regional nuclear war. Their research shows the new reality of the threat posed by even a relatively "limited" nuclear war. Many individuals and environmental groups are committed to nuclear disarmament. For example, Friends of the Earth and Greenpeace have campaigned against the environmental effects of nuclear weapons development and testing around the world.

Opposing a new weapons plant

Protestors in Kansas City opposed the use of public funds to support expansion of a nuclear weapons plant. Instead, they proposed converting the bomb factory into a wind energy plant to make use of the area's abundant wind resources to create "green-collar" jobs that will last long into the future.



math of nuclear war.

"Next I was diagnosed as having malignant lymphomas. I had surgery, but the tumors continue to appear twice a year, every year."

—Sueko Takada Survivor of the atomic bombing of Nagasaki

Radiation damage

Ionizing radiation has high energy, and thus can chemically alter atoms it strikes. Living cells exposed to high doses of ionizing radiation are severely damaged. The resulting radiation sickness can kill people over the course of days, weeks or months. Production in the bone marrow of red blood cells, which carry oxygen, and white blood cells, which defend against infection, is very sensitive to radiation.

Radiation can also damage the DNA in living cells. The affected cells may die or be altered (causing mutations), and may in time become cancerous.





Eyes: High doses can trigger cataracts months later.

Thyroid: Hormone glands vulnerable to cancer. Radioactive iodine builds up in thyroid. Children most at risk. Lungs: Vulnerable to DNA damage when radioactive material is breathed in.

Stomach: Vulnerable if radioactive material is swallowed.

Reproductive organs: High doses can cause sterility. Plutonium concentrates in the gonads, leading to birth defects and miscarriages. Skin: High doses cause redness and burning.

Bone marrow: Radiation can lead to leukemia and other immune system diseases.

A lethal dose of radiation can involve as little energy as the heat in a sip of hot coffee.

Blast damage

The blast from a nuclear explosion instantly kills people close to ground zero, from incineration, multiple injuries and high levels of radiation. Internal injures such as lung injuries, ear damage and internal bleeding occur at much greater distances. Shattered glass, bricks, concrete and wood from destroyed buildings are hurled by the blast, and the people themselves are turned into missiles, killing and injuring more people. The lethal area from the blast of an average strategic weapon of 1 megaton is likely to be over 100 square km.

Left: Many of those incinerated by the intense heat left behind only the shadow they cast at the moment of the blast. Nagasaki, 1945.



The explosion also causes severe burns and eye injuries. The heat wave ignites fires that may combine into immense firestorms. Within these areas, even people in underground shelters will die from extreme heat or asphyxiation.

"Nuclear weapons constitute the greatest immediate threat to the health and survival of mankind."

-The World Health Organization (WHO), 1983

Since the atomic bombings of Hiroshima and Nagasaki, physicians, other health professionals and scientists have documented the horrifying medical and humanitarian consequences of nuclear weapons explosions—often based on firsthand experience of treating the victims.





International Physicians for the Prevention of Nuclear War (IPPNW) was founded by US and Soviet physicians in 1980. This global federation of physician experts, which was awarded the Nobel Peace Prize in 1985, came together to explain the medical and scientific facts of nuclear war to

Peace Prize in 1985, came together to explain the medical and scientific facts of nuclear war to policy makers and the public, and to advocate the elimination of nuclear weapons—prevention—as the only possible "cure" for nuclear war.





"The question is whether the country is earning a

probably not."

good return on its national-security 'investment,' for

it is clearly an investment in peace and safety, as well

perhaps in oil supply and exports. The bottom line is,

"Excessive spending on weapons drains resources for sustainable development." —António Guterres "The production, testing, possession, deployment and use of nuclear weapons should be prohibited and recognized as crimes against humanity."

-UN Human Rights Committee, 1984

"Disarmament is preeminently a humanitarian endeavor for the protection of the human rights of people and their survival. We have to see the campaign for nuclear disarmament as analogous to the campaigns such as those against slavery, for gender equality and for the abolition of child labor."

> —Jayantha Dhanapala President of the Pugwash Conferences on Science and World Affairs, former UN Under-Secretary-General for Disarmament Affairs

Right to life

The protection of the right to life and bodily security are at the heart of the 1948 Universal Declaration of Human Rights. The very existence of weapons that have the potential to kill millions or even billions of people degrades the value of human life and dignity.

Secrecy

A study by the Stockholm International Peace Research Institute (SIPRI) and the Geneva Centre for the Democratic Control of Armed Forces (DCAF) in 2010 shows that whether a given nuclearweapon state is democratic, quasi-authoritarian or a dictatorship does not determine the decisions it will take regarding nonproliferation, disarmament or potential use of its nuclear weapons. In short, secrecy in nuclear weapon governance persists even in generally open societies.

Democratic control

The potential use of nuclear-tipped missiles is uniquely problematic. The flight time of long-range bailstic missi is between 15 and 30 minutes, giving 1 political leadership of the taregreted country only a few minutes to decide whether to launch a retailatory strike. In the case of submarine-launched missiles, this decision window would b even shorter. This makes it impossible for the elector to participate-either directly or throu their chosen representatives-in the m momentous decision that will ever face

Nuclear testing and minorities

clear test explosions have often nducted on the lands of indigen d minority peoples, far away fro se making the decisions. The aff



"As a result of the nuclear testing, all of these communities have suffered dislocation, in one form or another, from their indigenous way of life. Many have become internally displaced persons who are yet to find durable solutions and expressed that they feel like 'nomads' in their own country. Many have suffered long-term health effects." -Calin Georges

"Go back to the surface and take better care of the world than we did. Good luck."

-Berit Lundqvist Swedish nuclear expert, responding to a question about what advice she would have for humans who, in the distant future, have entered a deep underground storage site for nuclear waste

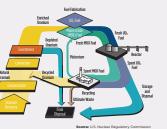
Nuclear accidents

In a nuclear reactor, uranium fuel undergoes a controlled fission chain reaction, generating great heat energy, which can be converted to electricity. Controlling this reaction is a complex technical task. If control is lost, the result is a nuclear meltdown, such as happened in the Three Mile Island (1979), Chernobyl (1986) and most recently Fukushima (2011) accidents, potentially releasing large quantities of radioactive pollution into the environment.

Nuclear waste

Nuclear reactors also produce plutonium, a fissile material, which can be chemically separated from the highly radioactive spent reactor fuel and used to build a nuclear weapon or radiological dispersal device ("dirty bomb"). A nation seeking nuclear weapons could build a reactor, claiming it was for civilian purposes, and then divert plutonium to weapons use. Such fissile materials could also be stolen by groups seeking to commit acts of terror.





"Nuclear-energy systems should be deployed that, by design, avoid the use of materials that may be applied directly to making nuclear weapons."

---Mohamed ElBaradei Former General Director of the International Atomic Energy Agency (IAEA)

NPT regime

The 1968 Nuclear Non-Proliferation Treaty (NPT) commits countries already possessing nuclear weapons and weapons technology not to transfer them to other states; and the states which do not have nuclear weapons not to acquire them. The International Atomic Energy Agency (IAEA) is charged with verifying that the nonproliferation commitments are being fulfilled. On the other hand, there is no process or body under the NPT to implement or verify the disarmament commitment, which is also an integral part of the treaty.

The NPT also guarantees all states the right to the nonmilitary use of nuclear energy. Repeated attempts have been made, primarily in the framework of the IAEA, to study the possibility of establishing international centers to manage the nuclear fuel chain so that peaceful uses of nuclear energy remain peaceful. Thus far, international control of the nuclear fuel chain has not moved significantly toward realization.



Above: A US contractor and Chilean Nuclear Energy Com

Securing nuclear materials

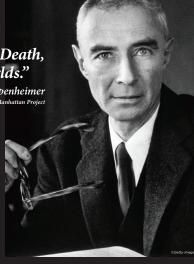
There is an accelerating effort, based on international cooperation, to move existing stocks of highly enriched uranium (HEU) and other materials to more secure locations or to "down blend" this to low-enriched uranium (LEU) which cannot be used in weapons. There remains an estimated 20 tons of HEU in non-nuclearweapon states. In November 2010, the United States worked with Kazakhstan to move 10 tons of HEU to a more secure cask storage facility, in the east of the country.



-Robert Oppenheimer Technical director of the Manhattan Project

In the 20th century, discoveries in physics regarding the essential nature of energy and matter offered new understanding of the universe we inhabit. At the same time, they made possible the unleashing of forces of previously unimagined ferocity.

The Manhattan Project, which culminated in the destruction of the two cities of Hiroshima and Nagasaki in 1945, represented a new level of collaboration between scientific and military interests. There was now a direct line from basic scientific research to its application in producing devastation on an unprecedented scale.



"We appeal as human beings to human beings: Remember your humanity, and forget the rest."

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Pugwash Conferences

The Pugwash Conferences on Science and World Affairs is an international organization that brings together scholars and public figures to work toward reducing the danger of armed conflict and to seek solutions to global security threats. The inaugural gathering of the group was held in July 1957 and was attended by 22 scientists, including those from the US, the Soviet Union, Japan, China and France.

Technological expertise



Manhattan Project

a weapor the Unite which br	t 1942, motivated by fear that Nazi Germany would develop hased on newly discovered principles of atomic physics, di States and its Allies launched the Manhatan Project, ought together many of the world's leading scientists to an atomic bomb.	
1896	Radioactivity discovered by Henri Becquerel.	
1898	The first radioactive elements, radium and polonium, discovered by Pierre and Marie Curie.	
1905	Albert Einstein theorizes the relationship of mass and energy (E=mc2), proving the theoretical basis for understanding the power of nuclear reactions.	
1932		
1933	Hungarian physicist Leó Szilárd realizes the possibility of a nuclear chain reaction.	and the second second
1934		
1939	Albert Einstein and Leó Szilárd write to President Franklin Roosevelt suggesting the US should start researching an atomic weapon.	
1941	Roosevelt gives the go-ahead for the development of an atomic weapon and initiates the Manhattan Project.	
1942	The first controlled nuclear fission reaction is produced by Enrico Fermi at the University of Chicago.	
1943	Japan becomes the primary target for any future atomic bomb according to the Military Policy Committee of the Manhattan Project.	Contraction of the second s
1945	April: The Target Committee of the Manhattan Project selects four cities as possible targets for the atomic bomb: Kyoto, Hiroshima, Kokura and Niigata.	
	July: The world's first atomic detonation takes place in the "Trinity Test" at Alamogordo, New Mexico.	and the second sec
	Aug 6: Little Boy, a uranium bomb, is detonated over Hiroshima, Japan.	and the second
	Aug 9: Fat Man, a plutonium bomb, is detonated over Nagasaki, Japan.	



Treaty (CTBT) The Comprehensive Nuclear-Test-Ban Treaty (CTBT) was adopted by the UN in 1996; it bans nuclear explosions by everyone, everywhere. Although the treaty has not entered into force, it has been key in promoting a de facto moratorium on nuclear testing. The Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO) is charged with overseeing the implementation of the treaty, working with scientists and experts from a wide range of disciplines– from nuclear physics to seismology and atmospheric science.

International Monitoring System (IMS)

is a worldwide network of vational technology that will o verify compliance with and t violations of the CTBT. When lete, the IMS will consist of	complemented by an intrusive on-site inspection regime applicable once the treaty has entered into force. The CTBTO's experts are confident that their system can aid in the detection and identification of nuclear explosions anywhere on the planet.



"With nuclear weapons the failure of deterrence means that there is no hope of recovery or recuperation. It is totally final and therein lies the dilemma that I felt to the depth of my being." —Gen. Lee Butler

States Strategic Command (1992–94



The modern concept of security has often been centered on the idea of the sovereign state, independent and in competition with other states. The overriding goal of security efforts has been to protect the integrity of states' borders and ensure the continuity of their political structures.

Mutual Assured Destruction

ersisted throughout the period of the old War, as both Eastern and Western locs developed massive nuclear arsenals he ultimate form of deterrence was "Atual Assured Destruction" –or MAD—i which the people of the competing blocs erree forced to live a button-pub from nnihilation. The continued existence of uclear weapons holds all states and their eople hostage to the ultimately fragile eople hostage to the ultimately fragile

The 1962 Cuban Missile Crisis brought the United States and Soviet Union to the brink of war. It became clear that the unparalleled destructive capacity of nuclear weapons threatened not only the combatant states, but human civilization itself and all people on Earth.



"Force will be met by force. If the US wants war, that is its problem. The calamities of a war will be shared equally." —Nikita Khrushchev Premier of the Swird Union (1958-61)

"We endorse setting the goal of a world free of nuclear weapons and working energetically on the actions required to achieve that goal."

—George Shultz, William Perry, Henry Kissinger and Sam Nunn Former high-level US security officials

ensure their own security.



Political efforts for nuclear disarmament

2017	The Treaty on the Prohibition of Nuclear Weapons is adopted at the UN and opened for signature.
2010	New START is signed by the United States and the Russian Federation, limiting the number of deployed strategic nuclear warheads to 1,550 each.
2007	Former high-level US security officials George Shultz, William Perry, Henry Kissinger and Sam Nunn publish an editorial "A World Free of Nuclear Weapons," acknowledging the limitations of deterrence theory and calling for the elimination of nuclear weapons.
2007	The International Convention for the Suppression of Acts of Nuclear Terrorism enters into force.
2005	The IAEA and its head, Mohamed ElBaradei, win the Nobel Peace Prize for their efforts to prevent nuclear energy from being used for military purposes.
2000	The NPT Review Conference adopts a final document which includes steps to nuclear disarmament and the unequivocal promise to eliminate nuclear arsenals.
1996	The Comprehensive Nuclear-Test-Ban Treaty (CTBT) is adopted by the United Nations General Assembly. Although it has not entered into force, the treaty has encouraged a de facto moratorium on nuclear testing.
1995	178 states agree to extend the Nuclear Non-Proliferation Treaty indefinitely.
1991	The Strategic Arms Reduction Treaty (START I) is signed by the United States and the Soviet Union.
989	The Berlin Wall falls as East Germany opens its borders with West Germany, marking the end of the Cold War.
988	The Intermediate-Range Nuclear Forces (INF) Treaty, signed by the United States and the Soviet Union, eliminates an entire class of nuclear weapons, nuclear missiles with a range between 500 and 5,000 km.
987	A law adopted by New Zealand prohibits the stationing of nuclear weapons on its territory and the entry into its waters of nuclear-armed or propelled ships.
978	The United Nations General Assembly's Special Session on Disarmament is held.
970	The Nuclear Non-Proliferation Treaty (NPT), the key treaty to prevent the spread of nuclear weapons, enters into force.
967	The Treaty of Tlatelolco creates a Latin American nuclear-weapon-free zone, the first nuclear-weapon-free zone in an inhabited area.
963	To prevent contamination from nuclear fallout, the Partial Test Ban Treaty (PTBT) restricts all nuclear testing to underground testing.
961	The first Nuclear-Weapon-Free Zone treaty, the Antarctic Treaty, enters into force.
957	The Statute of the International Atomic Energy Agency (IAEA) enters into force.



The overwhelming threat posed by nuclear weapons has brought the dawning realization that states operating under the traditional assumption

of complete independence and sovereignty cannot

Political cooperation has come to be recognized as a necessary condition for survival. The result has been a series of agreements, both bilateral and multilateral, seeking to reduce the threat of nuclear war and facilitate cooperation to that end.



The corrosive effects of nuclear weapons permeate all societies. They force us to live under the shadow of potentially catastrophic destruction. They embody the obscene proposition that there is some overarching value that can justify the mass slaughter of innocents. Their use would not only erase the past fruits of all human civilization, but would leave present and coming generations confronting a mutilated future.

Representatives of the world's ethical and spiritual traditions have spoken out—whether in the language of religious tenets or from a more secular appreciation of what it means to be human to condemn nuclear weapons. They make clear that we bear a shared and universal responsibility to protect our fellow humans, our planet and the future from this direct and unaccentable threat.



"All religions agree about the dignity of the human person, the peaceful settlement of disputes, protection of the environment and the preservation of the rights of future generations."

er International Court of Justice vice-presiden

"Simply transferring the world's nuclear weapons to a museum will not in itself bring about world peace. The nuclear weapons of the mind must first be eliminated."

"While we know you will continue in the future to deal with the legacy of radioactive, toxic waste, we are committed to leave to you a legacy of strength. The battles we fight to protect our land, our future, and our lives will in some way reduce the threat you are exposed to."

> —Jacqui Katona Aboriginal woman who led a campaign against a uranium mine in the Northern Territory, Australia

"From the prophets' dreams of the time when nations would beat their swords into plowshares to today's aspirations of a nuclearweapons-free world, we have sought to avoid armed conflict and not yield to despair in the search for universal peace."

> —Rabbi David Saperstein Religious Action Center of Reform Judaism

—Mātā Amrtānandamayī Devī Hindu spiritual leader

"By far the greatest single danger facing humankind—in fact, all living beings on our planet—is the threat of nuclear destruction." —Tenzin Gyatso The 14th Datai Iano

> "Nuclear abolition is the democratic wish of the world's people, and has been our goal almost since the dawn of the atomic age. Together, we have the power to decide whether the nuclear era ends in a bang or worldwide celebration."

> > -Archbishop Desmond Tutu South African Council of Churches

"We need a massive global uprising against nuclear weapons as was done to abolish slavery, to save humanity from annihilation." —Ibrahim Ramey Muslim American Society (MAS) Freedom Foundation

"As people of faith, we advocate for the right of all people to live in security and dignity. ... The horrific destructiveness of nuclear weapons makes their abolition the only path to authentic human security." —Public Statement Submitted to the 2018 UN General Assembly First Committee

Faith Communities Concerned about Nuclear Weapons

"More than any other manifestation of patriarchy, the compulsive acquisition and excessive use of weaponry demonstrate the abuse of power by the male-dominated state system. Like all addictions, the addiction to weaponry wreaks negative results on the systems in which it occurs." "Every woman is free to take the initiative, take risks, be angry, shout, sing, disobey police and be adaptable. We are always looking for unexpected and unpredictable actions..."

—Di McDonald

—Betty Reardon Pioneer of peace education

The Gender Challenge

Birth defects from nuclear testing

On 14 November 1995, Lijon Eknilang, a quiet, unassuming woman from the Pacific island of Rongelap, spoke at the International Court of Justice in The Hague when it was hearing testimony regarding the legality of nuclear

"Women have experienced many reproductive cancers and abnormal births. In privacy, they give birth, not to children but to things we could only describe as 'octopuses,' tapples, 'turtles'... "The most common birth directs on Ponenlan and

The most common birth defects on Rongelap and nearby Islands have been jellyfish' babies. These babies are born with no bones in their bodies and with transparent skin. We can see their brains and hearts beating. The babies usually live for a day or two before they stop breathing." "Women, in professional and military settings, have related experiences of realizing that something terribly important is being left out. "What is it that cannot be spoken? What gets left out is the emotional, the concrete the particular, human bodies and their subjectivity—all of which are marked as feminine in the binary dichotomies of gender discurse."



"When it comes to the military and questions of nuclear disarmament, the gender gap becomes the gender gulf."

--Eleanor Smeal Former President of the National Organization for Women

Women have consistently been at the forefront of grassroots efforts to abolish nuclear weapons. They have used techniques of nonviolence to protest the hideous destructive power nuclear weapons represent. They also often reject the vast investment of resources which could otherwise be constructively used to address social issues.



Greenham





Women's International League for Peace and Freedom (WILPF)

Since the founding of the Women's International League for Peace and Freedom (WILPF) in 1915, it has sought total and universal disarmament as one of its goals. Through the Reaching Critical Will and Peace Women projects, WILPF continues empowering women to participate in this necessary work.

In the disarmament field, WILDP also has been calling for implementation of Resolution 1325 on women, peace and security unanimously adopted by the United Nations Security Council on 31 October 2000. Resolution 1325 has been taken as an inspiration and basis for increased activism by women's peace groups around the world. 2020 marks the 75th anniversary of the Hiroshima and Nagasaki bombings. How many survivors will be alive five or ten years from now?

"Every second of every day, nuclear weapons endanger everyone we love and everything we hold dear. We must not tolerate this insanity any longer."

-Setsuko Thurlow Hiroshima Survivor Who Delivered Nobel Peace Prize Speech for 2017

The voices of survivors

No group of people have been more dedicated to communicating the realities of nuclear war than the hibakusha, the survivors of the atomic bombings of Hiroshima and Nagasaki. Through their words and actions, in art and in writing, they have confronted and conveyed a past whose horrors most would prefer to forget. In doing so, they have been driven by a commitment to the future, the determination that no one anywhere should ever experience the terror and sufferings they have undergone



mic bomb survivor calls on US leaders shima and Nagasaki, Washington, 1985

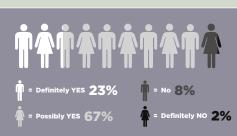


Hibakusha Stories

Hibakusha Stories is a disarmament education initiative that began in October 2008, which passes the legacy of the atomic bombings of Hiroshima and Nagasaki to a new generation, empowering them to build a world free of nuclear weapons

Youth attitude

rvey conducted by Sole



Q. Will nuclear weapons be used at some point in the future?

> "We are looking ahead to make every decision that we make relate to the welfare and well-being of the seventh generation to come." -Oren Lyons Chief of the Onondaga Na

IPPNW Medical Students

Amplify

James Martin Center for Nonproliferation Studies (CNS)



"Ours is a world of nuclear giants and ethical infants. We know more about war than we know about peace, more about killing than we know about living."

> -Omar N. Bradley (1893–1981) US Army G

The traditional understanding of sovereignty has rested on the state's monopoly on the legitimate use of violence: in police and law enforcement domestically, and in waging war abroad. Nuclear weapons were developed with the view that a state with access to this ultimate violence would enjoy security.

Under the Cold War regime of deterrence, it was assumed that the threat of devastating reprisal would prevent the opposing state from nuclear aggression because a state, as a "rational actor," would not engage in suicidal behavior.

The possibility of accidental nuclear war-of states being willing to take suicidal risks-or that terrorist groups might obtain nuclear materials or weapons represents a fundamental challenge to this thinking.

Contemporary terrorism is, more than anything, an expression of despair; it manifests in acts of savage disregard for human life—including the lives of those who carry it out. For such groups, with nothing to protect and nothing to lose, the logic of deterrence . means nothing.



Possible forms of nuclear terrorism

or conquer another. At the same time, people around the world face unacceptable threats to their lives and dignity in the form of poverty, hunger, preventable disease, human rights abuses and environmental destruction. This has led to a reframing of the question of security from a focus on the state to a focus on people-human security

In recent years, the nature of threats-military and

otherwise—has changed. Most armed conflicts are

now internal and it is rare for one country to invade



—Mahbub ul Haq (1934–98) founder of the Human Development Rep

"In the final analysis, human security is a child who

did not die, a disease that did not spread, a job that

was not cut, an ethnic tension that did not explode

in violence, a dissident who was not silenced."

Costs of attaining the **Millenium Development Goals**



Which is safer—the world of heavily armed states and simmering despair, or a world in which people's basic needs are met and their dignity ensured?

Nuclear-Weapon-Free Zones (NWFZs)

A Nuclear-Weapon-Free Zone (NWFZ) is generally defined as an area in which the manufacture, production, possession, testing, acquisition and receipt of nuclear weapons is banned. More than 50% of the Earth's surface today comprises nuclearweapon-free zones, including 99% of all land in the southern hemisphere. Of the world's approximately 195 states, 119 now belong to a nuclear-weapon-free zone, and 1.9 billion people live in them.

States that have relinquished nuclear weapons

Nuclear states can—and have—given up the development or possession of nuclear weapons. States that have done so include Canada, which was involved in efforts to develop the first atomic bomb but later gave up the nuclear option. Brazil and Argentina abandoned their nuclear weapon development programs. South Africa dismantled its nuclear weapons and joined the ranks of non-nuclear-weapon states. Belarus, Kazakhstan and Ukraine inherited a massive stockpile of nuclear weapons when the Soviet Union broke up. They gave up their weapons in exchange for security guarantees and economic assistance from the United States, Russia and elsewhere.

Areas Designated as Nuclear-Weapon-Free



Denuclearization of the Northern Hemisphere

There are five NWFZs existing today, with four of them covering almost the entire Southern Hemisphere. This process of denuclearization needs to be expanded to the Northern Hemisphere. NWFZs have been proposed for: South Asia, the Middle East, Northeast Asia and Europe.

The Comprehensive Nuclear-Test-Ban Treaty (CTBT)

The CTBT was adopted and signed by 71 states, including the five nuclear-weapon states, in 1996. It has not become legally binding as it must be ratified by all 44 states with nuclear power or research reactors. There are eight countries outstanding: China, Egypt, India, Iran, Israel, North Korea, Pakistan and the United States.

"It is time for all governments to come together—with the support of civil society around the world—to chart our course to a nuclear free future by beginning the negotiation of a comprehensive treaty banning the use, production, transfer and stockpiling of nuclear weapons. Now. Not in years or decades. Now."

—Jody Williams The founding coordinator of the International Campaign to Ban Landmines (ICBL)

Fissile Material

Cut-off Treaty (FMCT)

An FMCT would represent a binding

international prohibition against the production of fissile material for nuclear

weapons purposes, thus strengthening

negotiations have not commenced, the idea

nuclear nonproliferation efforts. While

has been repeatedly discussed in the Conference on Disarmament in Geneva



Landmines ban

and developed cutside of traditional diplomal channels in a series of meetings in Vienna, Sonn, Brussels and Oslo over the course of 997. A group of like-minded governments worked in close cooperation with the NOSo of the international Campaign to Ban Landmin (EB), and international Campaign to Ban Landmin to State international Committee of the Red Coss (ICRC) to steer what became known ons the Ottawa Process. The Mine Ban Treaty was signed by 12 states in Ottawa, Canada on 3 December 1997. It entered into force le han two years later, more quickly than any reaty of its kind in history.

Cluster weapons ban

he Convention on Cluster Munitions entere to force on 1 August 2010. The cluster junitions ban process, also known as the islo Process, began in February 2007 in slo. Norway. At that time, 46 nations issue e Oslo Declanation. Meetings were ubsequently held in Lima and Vienna, and,

inciples to be included in the Conventio legates from 107 nations agreed to the al draft of the treaty at the end of a 10eeting held in May 2008 in Dublin.

A new effort to end the era of nuclear weapons has begun

Nuclear weapons are the only weapons of mass destruction that have never been prohibited by treaty. On January 22, 2021, the Treaty on the Prohibition of Nuclear Weapons (TPNW) entered into force,

What is the TPNW?

This treaty bans all activities related to nuclear weapons, from their development, manufacture and possession, to using or threatening to use them. Most of all, it establishes the international norm that nuclear weapons must never be used under any circumstance.

The treaty clearly recognizes the suffering and efforts of the victims of nuclear weapons, the hibakusha. It is the crystallization of the pledge of the hibakusha of the world, including the victims of the bombings of Hiroshima and Nagasaki, that no one should ever endure what they have suffered.



The road to the treaty

Nuclear disarmament is already a national obligation under the Nuclear Non-Proliferation Treaty (NPT). Despite this, there are still over 0,000 nuclear weapons in the world.

Efforts for nuclear disarmament that had been stagnant for decades took a major turn with the growing awareness, based on hibakushas' experience, that nuclear weapons are not something that protects national security but a cruel weapon that brings untold suffering to countless people. A series of conferences on the inhumane nature of nuclear weapons led to negotiations at the UN and, in July 2017, 122 countries voted in favor of the TPNW, thus adopting it.

It is widely acknowledged that civil society played a major role in the adoption of the treaty. In 2017, the International Campaign to Abolish Nuclear Weapons (ICAN) was awarded the Nobel Peace Prize for its leadership in these efforts.

What is a ban on nuclear weapons?

As of now, no country possessing nuclear weapons or relying on other states' nuclear weapons has joined the treaty. Now that the treaty has officially become international law, nuclear weapons are recognized as illegal and views on nuclear weapons have started to change. For example, some major banks and corporations have stopped investing in activities related to these inhumane weapons.

In this way, countries possessing or relying on nuclear weapons are restricted from activities related to nuclear weapons even if they do not participate in the treaty. This will help prevent the spread of nuclear weapons and ultimately lead to their elimination.



From prohibition to elimination

As the number of countries participating in the treaty increases and the voices of people calling for the abolition of nuclear weapons grow louder, the idea that nuclear weapons are not a source of national prestige, but in fact something to be ashamed of, will gain traction throughout society, thus strengthening the power of the treaty. A conference of the governments that have joined the treaty will be held regularly to discuss the status and impact of the treaty. This conference is open to governments that have not joined the treaty will be held regularity to discuss the status and impact of the treaty. This conference threaty, interational organizations and NGOs.

Now is the time for dialogue among all countries on concrete steps to eliminate nuclear weapons. The ultimate goal is not only to ban nuclear weapons but to abolish them forever. Towards that end, it is essential that ordinary citizens everywhere show their support for a world without nuclear weapons.

Talk about nuclear weapons and the ban treaty with the people you treasure!

The first thing you can do is to know and share. This is something anyone can do right now. You may feel that your individual actions will not contribute to the elimination of nuclear weapons, but they can. You can help raise public opinion and take a major step toward a world free from nuclear weapons.







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"A world without nuclear weapons will make a good base camp for continuing the climb. As any climber will tell you, the destination and the journey are equally important. Nuclear disarmament is both a destination and a process."

-Rebecca Johnson

The Power of "Zero"

A world without nuclear weapons should not be thought of as our present world—wracked by violence and injustice—with this one particularly hideous aspect removed. The struggle to abolish nuclear weapons is an opportunity to fundamentally alter our relationship among ourselves and with the world.

Consider a person struggling with a terrible addiction: to alcohol, drugs or gambling, for example. For such a person, getting to zero-having no further engagement with their addiction—is the key step. And taking that step necessarily involves a deep review and renewal of past behaviors, habits and ways of thinking about life.

This does not mean that nuclear weapons can only be eliminated after human nature has changed for the better. But they will be eliminated through the cumulative power of individual choices—choices made by each of us.

The stand of a

"We cannot hope to build a better world without improving the individual."

—Marie Curie pioneering researcher in the nature of radioactivity

Moral vision

The moral vision and spiritual qualities required to eliminate nuclear weapons do not exist in some distant, lofty realm. They are, rather, the qualities of decency, dialogue, sharing and caring that form the fabric of daily life. It has been said that war could be eliminated if political leaders could act on the basis of the morality taught to small children by mothers everywhere: tell the truth; respect people, do not hurt them or take what isn't yours; clean up after

Self-mastery

The abolition of nuclear weapons means demonstrating self-mastery as a species—showing that we can wisely choose to protect ourselves against the threat posed by these weapons. It will be proof that humans are not the passive victims of our own technology. If humankind can come together to eliminate this existential threat, this will lay the foundations for shared efforts to meet other challenges, such as ensuring ecological intergrity and realizing a world where all people can live in dignity.

We should view the struggle for nuclear abolition first and foremost as an opportunity—a chance to transform humankind's deep-seated impulse to destruction, including self-destruction.

By coming together for the future we want and deserve, we can protect the things each of us treasures.

> We all care, usually very deeply, about the people and things in our lives. Our values, the things that matter to us, guide our at protecting, preserving and passing on the things that we value and treasure.

What is the future you want? How would you put it in words? How will you put it into action?

> "We have to face the fact that either all of us are going to die together or we are going to learn to live together, and if we are to live together we have to talk."

—Eleanor Roosevelt (1884–1962) former US First Lady

Interdependence and collaboration

And collaboration When we become aware that our lives fundamentally interdependent, it becomes clear that we cannot harm others without harming ourselves, we understand that it is impossible occurity out ha pear and suffering of others. In a nuclear age, the only viable path octures of the cannot achieve the things we want alone, the goal of security on a global scale will only be achieved when we all-governments and civil society, "realists" and "dreamers" alike-work for it together. This will be even more to together. This will be even more