

# Science & Peace

BRIDGES Dialogues Towards a Culture of Peace

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## Science for peace

- 1 Peace of mind = achieving peace*
- 2 Nobel Peace Prize Laureates*
- 3 Building bridges of science for peace*



*Has science played a role in fostering peace?*



**Einstein on peace and war:**

***"The time has come now, when man must give up war. It is no longer rational to solve international problems by resorting to war. Now that an atomic bomb, such as the bombs exploded at Hiroshima and Nagasaki, can destroy a city, kill all the people in a city, we can see that we must now make use of man's powers of reason, in order to settle disputes between nations. In accordance with the principles of justice we must develop international law, strengthen the United Nations, and have peace in the world from now on."***



*Some of the same scientists who participated in the development of the atom bomb became the main advocates against their use and proliferation.*



## **Linus Carl Pauling**

*succeeded in having  
the nuclear test ban approved  
by the major countries*

### **The Nobel Peace Prize 1962**

*...for his decade-long campaign against nuclear weapons testing and  
against all warfare as a means of solving international conflicts...*



*Pauling's dedication  
under adversity has  
been a model for many  
scientists  
committed to peace.*

**Dr. Linus Carl Pauling, with future  
Peace Prize Winner Bishop Desmond  
Tutu, attending the peace memorial  
service in Hiroshima.**



## **Andrei Sakharov**

*...first involved in the creation of the Hydrogen bomb, but later spoke out against the government's nuclear and social policies*

### **The Nobel Peace Prize 1975**

*....for his fearless personal commitment in upholding the fundamental principles for peace between men is a powerful inspiration for all true work of peace...*



Joseph Rotblat

The Pugwash Conferences

### The Nobel Peace Prize 1995

*...for their efforts to diminish the influence  
played by nuclear arms in international politics*





## The Russell-Einstein Manifesto:

- *"In view of the fact that in any future world war nuclear weapons will certainly be employed, and that such weapons threaten the continued existence of mankind, we urge the governments of the world to realize, and to acknowledge publicly, that their purpose cannot be furthered by a world war, and we urge them, consequently, to find peaceful means for the settlement of all matters of dispute between them."*



## **Pugwash Conference**

***Proclamation of the Russell-Einstein Manifesto  
at a Press Conference London - July 1955***



***Mohamed ElBaradei and the International Atomic Energy Agency (IAEA)***

**The Nobel Peace Prize 2005**

***"for their efforts to prevent nuclear energy from being used for military purposes and to ensure that nuclear energy for peaceful purposes is used in the safest possible way"***



**International**  
**CAMPAIGN** **TO**  
**LANDMINES** **BAN**



International Campaign      and      Jody Williams  
To Ban Landmines

**The Nobel Peace Prize 1997**  
*"for their work for the banning and clearing  
of anti-personnel mines"*

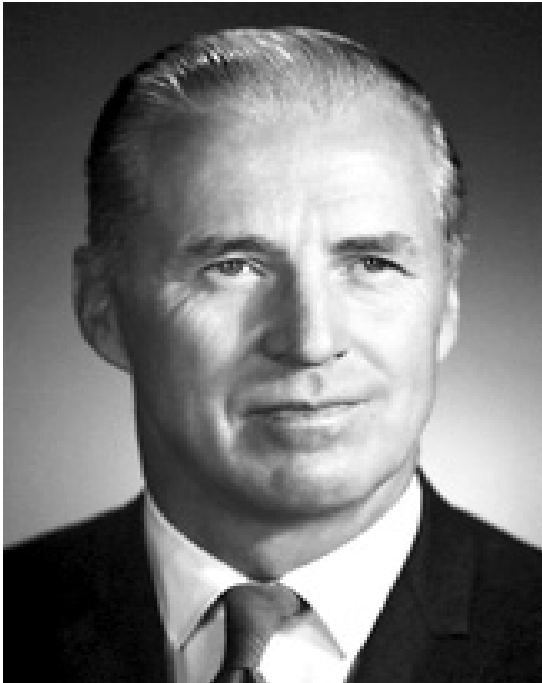


**Over 100 million anti-  
personnel land mines  
scattered over war-torn  
areas on several  
continents....**

**....a major threat to civilian  
populations**



*The Philippines Land  
Mines Bill of 2000 has  
yet to be signed*



## **Norman E. Borlaugh**

*on "The Green Revolution":*

*"...the increase in cereal production, rice, maize, and wheat has been spectacular and highly significant to the welfare of millions of human beings. It is still modest in terms of total needs."*

**The Nobel Peace Prize 1970**

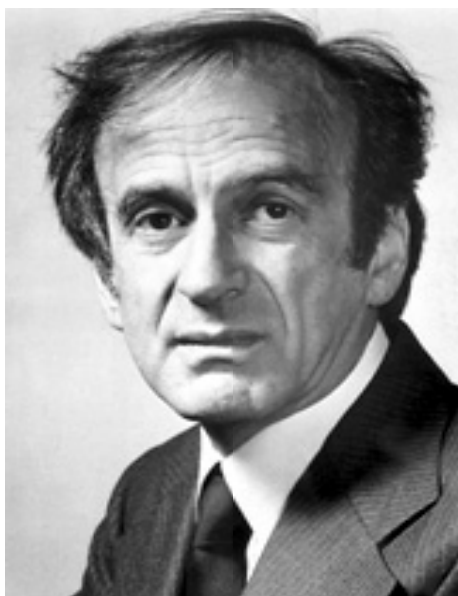
*Genetic engineering has made it possible  
to increase the supply of food products...*



*...giving additional relief through science*



***GM foods controversy – no scientific justification***



**Elie WIESEL**

**1986  
Peace Prize**



**Torsten WIESEL**

**1981  
Physiology or Medicine**



**Petra Conference of Nobel Laureates, hosted by Elie Wiesel**

***“The international community of scientists may help to abolish war by setting an example to the world of practical cooperation ending across barriers of nationality, language and culture.”***

from

***Imagined Worlds***

by Freeman Dyson





***“... practical cooperation ending across  
barriers of nationality, language and culture.”***

**New York Academy of Sciences**



***...creating a global  
community of scientists  
to benefit humanity...***

***With 26,000 members  
in 140 countries***



***Young scientist awardees with laureate scientists,  
New York Academy of Sciences Annual Gala 2008***

## **International Brain Research Organization**



***Facilitating global communication  
among brain scientists in the developing world***

## **Human Frontier Science Program**

***Initiated by the Japanese  
government 20 years ago***



**Creating opportunities for scientists from different countries and disciplines to meet and collaborate...**



## Pew Latin American Fellows Program

- *A two-year post-doctoral program for training biomedical science students in first-rate US laboratories*
- *Over 80% of students return to their home countries*
- *Many former students are among the leaders in biomedical sciences in Latin America*

## Pew Latin American Annual Retreat



**Restoring excellence of biomedical science in South America**



**with Palestinian scholars and young scientists in Jordan**



***"Science and art – the only effective messengers of peace"***  
**Albert Einstein**