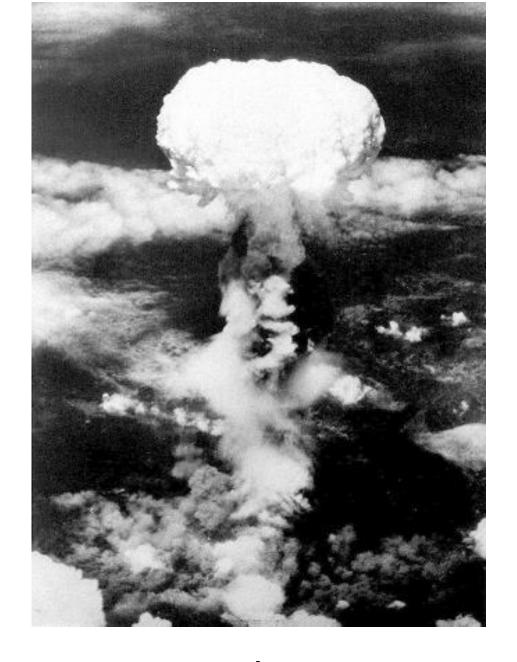
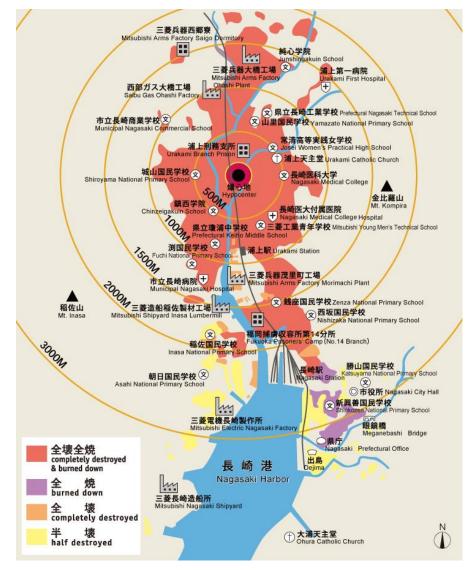
# Toward a World without Nuclear Weapons Challenge of Nagasaki University

Prof. Satoshi Hirose Research Center for Nuclear Weapons Abolition Nagasaki University



11:02 AM, 9<sup>th</sup> August 1945

## Map of the physical damage caused by A-bomb



Around 70,000 lives lost

#### Effect of Atomic Bomb 1 "Blast"



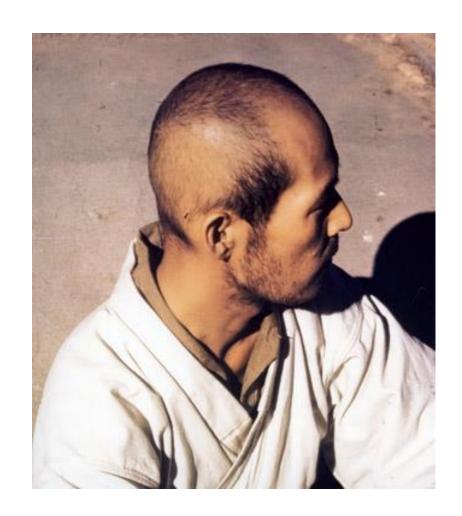
(Destroyed Urakami Cathedoral)

#### Effect of Atomic Bomb 2 "Heat"



Melted Bottles

#### Effect of Atomic Bomb 3 "Radiation"



Diseases like Cancer, Leukemia, Chromosome abnormality



Destroyed buildings of Nagasaki Medical College (Medical School of Nagasaki Univ.)



Destroyed factories of Mitsubishi (currently main campus of Nagasaki Univ.)

#### Casualties among staff and students of Nagasaki Univ. caused by A-bomb

Medical College 897 killed

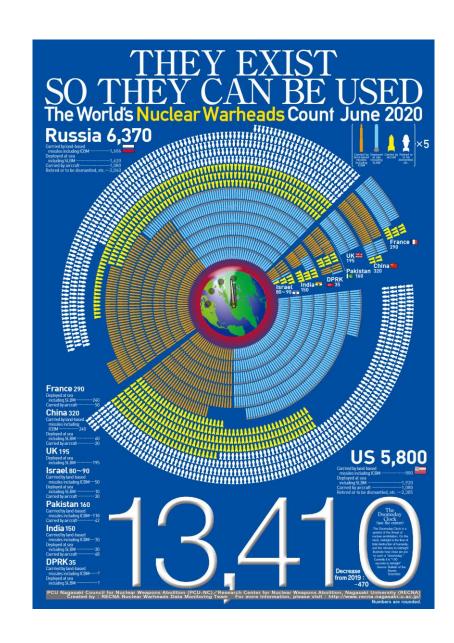
Teachers' College 55 killed

College of Economics 27 killed

# Still, you can see in and around the campus



## We still have 13,410 Nuclear Warheads!



## **Toward the World without Nuclear Weapons**

Atrocity of Nuclear Weapons = Motivation of Disarmament = Sensitivity: Necessity

Denial of Value of Nuclear Weapons = Methods of Disarmament = Reason: Possibility

## Two major projects of Nagasaki Univ. concerning A-bomb

Atomic Bomb Disease Institute (1962): Medical treatment for survivors



Reality of damage by A-bomb = Sensitivity = Necessity

Research Center for Nuclear Weapons Abolition(RECNA) (2012)

: Analysis of Current Situation and Providing Policy Options



Theory of Nuclear Disarmament = Reason = Possibility



# Major Works of RECNA

# From Nagasaki to the World

Research and Analysis on Nuclear Disarmament

Education and Training on Nuclear Disarmament

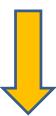
Implementing Outreach Programs

#### Research Theme 1 of RENA

# **Effective Theory for Nuclear Disarmament**



## Military Power to Protect Country from Possible Attacks



Military Power to Deter Possible Attacks



Deterrence

# **Nuclear Weapons**



# Most Powerful Weapons in the World



**Most Powerful Deterrence?** 

#### **Fundamental Contradiction in Deterrence**

**Distrust:** Possible Military Attack



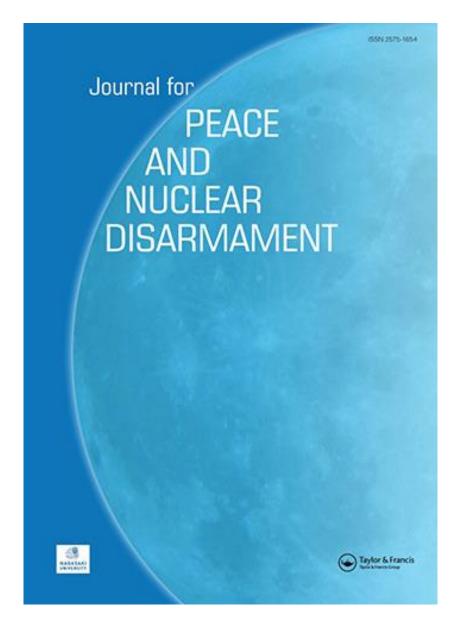
# Research theme 2 of RECNA Northeast Asia Nuclear Weapons Free Zone



The 3rd Panel on Peace and Security of Northeast Asia (PSNA) Workshop in Moscow, 31 May 2018



The 3rd Panel on Peace and Security of Northeast Asia (PSNA) Workshop in Moscow, 31 May 2018



Publication of Journal for Peace and Nuclear Disarmament

#### **Education and Training on Nuclear Disarmament**

1) Offering classes on Nuclear Disarmament: undergraduate classes and graduate school

2)Training the Nagasaki Youth Delegation

3)Providing assistance to local elementary and high schools



The Nagasaki Youth Delegation members with H.E. Ambassador Syed Mohamad Hasrin Syed Hussin (Malaysia), Chairperson of the Third Preparatory Committee for 2020 NPT Review Conference (Nagasaki Univ. July 11 2019)

## Implementing outreach programs

- 1) Convening open seminars, lectures and symposiums
- 2) Providing web-based user friendly data base on nuclear issues
- 3) Publishing Newsletters, Reports and Policy Papers



A scene from Open Seminar for Citizens

