

**THE INTERNATIONAL SEMINARS ON PLANETARY EMERGENCIES
AND ASSOCIATED MEETINGS 40th SESSION**

PROFESSOR ANTONINO ZICHICHI

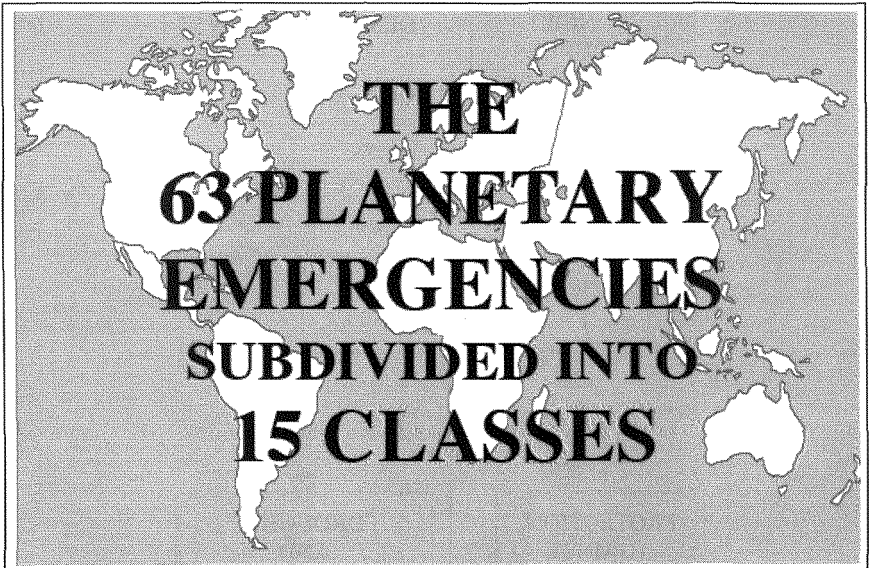
CERN, Geneva, Switzerland; University of Bologna, Italy; and Centro Enrico Fermi, Italy

OPENING SESSION

Dear Colleagues, Ladies and Gentlemen,

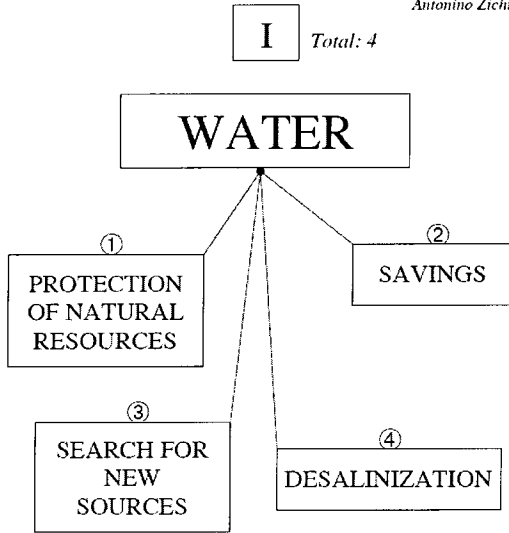
I welcome you all to this 40th Session of the International Seminars on Nuclear War and Planetary Emergencies and declare the Session to be open.

Here we are again, one hundred and ten scientists from 30 countries and more than 90 institutions, gathered in Erice to analyse a series of crucial multidisciplinary scientific issues. All part of the 63 Planetary Emergencies, subdivided in 15 classes determined by the World Federation of Scientists 33 years ago. For our Seminar guests, I shall enumerate them as follows.

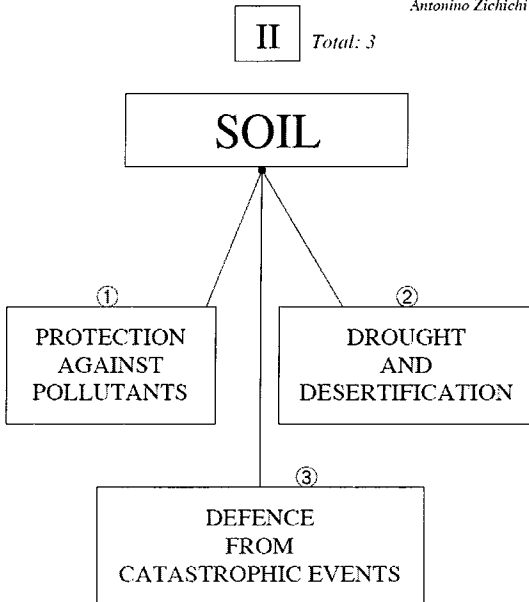


THE 15 CLASSES WITH THEIR STRUCTURE

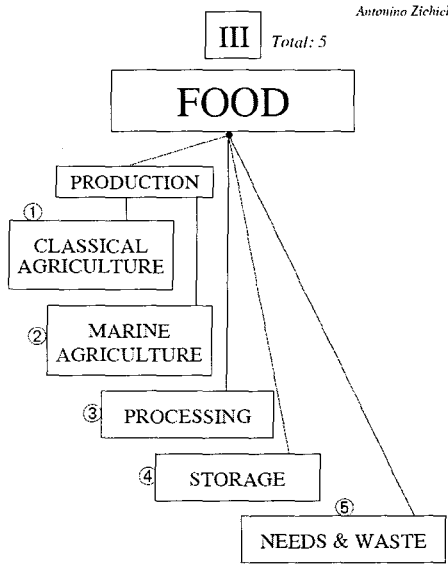
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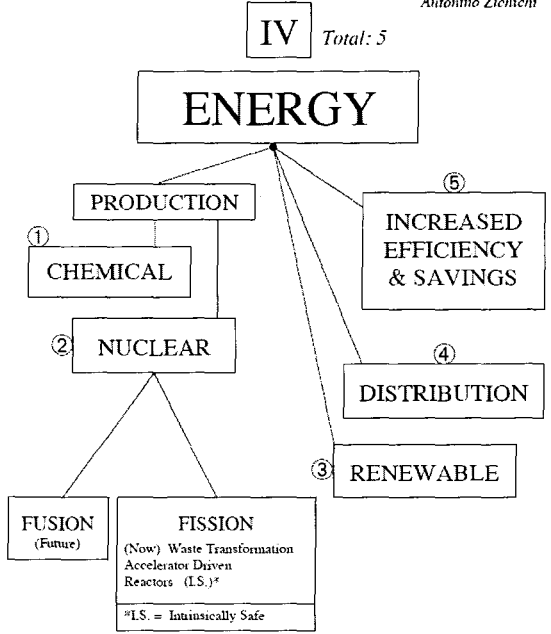
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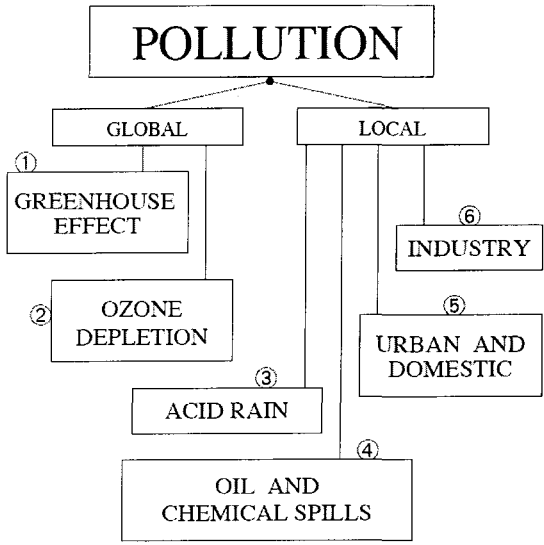


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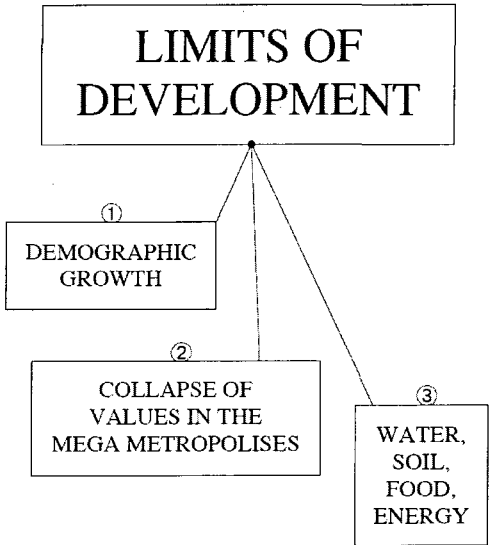
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V Total: 6



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VI Total: 3



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VII *Total: 1*

**CLIMATIC
CHANGES**

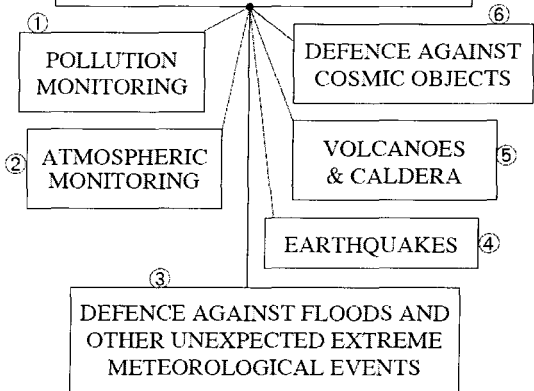
①

AND THE SCIENTIFIC PROBLEMS
ASSOCIATED WITH PREDICTION

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VIII *Total: 6*

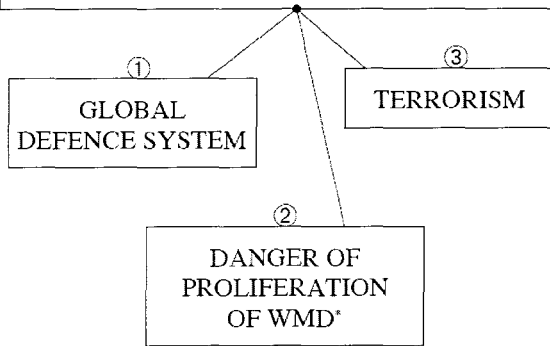
**GLOBAL
MONITORING
OF THE PLANET**



IX

Total: 3

NEW MILITARY THREATS IN THE MULTIPOLAR WORLD



*WMD = Weapons of Mass Destruction

X

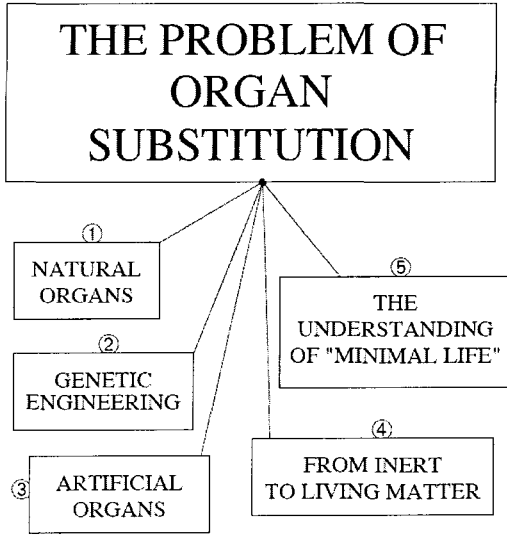
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SCIENCE AND TECHNOLOGY FOR DEVELOPING COUNTRIES TO AVOID A NORTH-SOUTH ENVIRONMENTAL HOLOCAUST

①

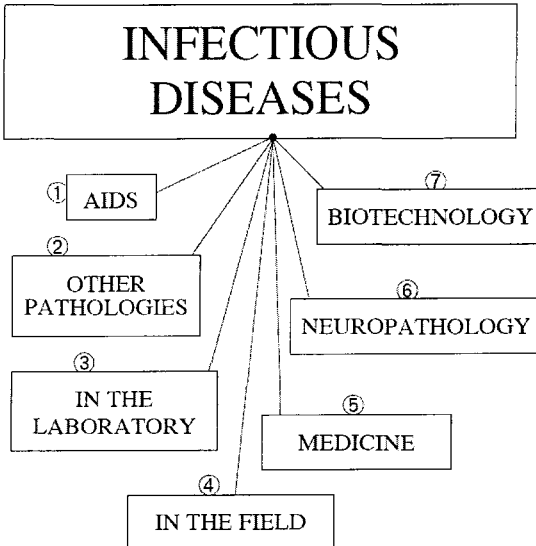
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XI Total: 5

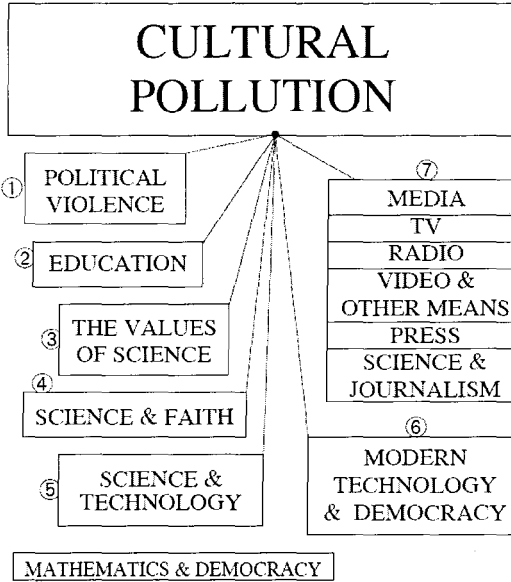


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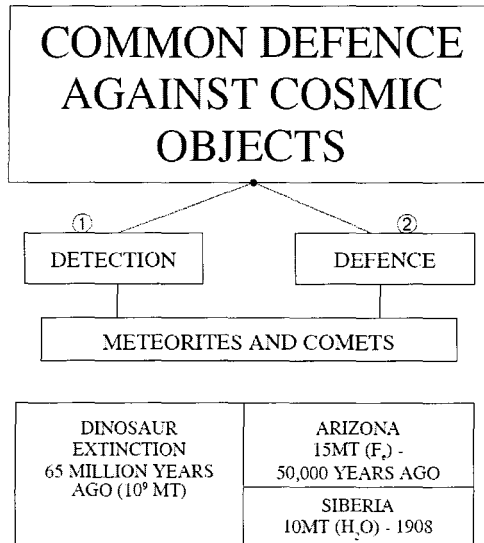
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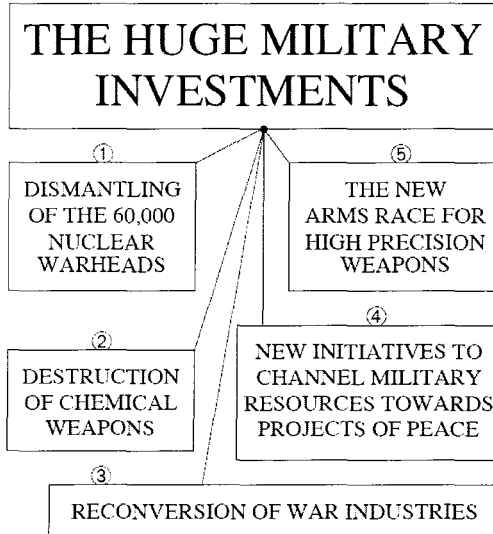
XIII Total: 7



XIV Total: 2



XV Total: 5



SUMMARY		number of P.E.
I	WATER	= 4
II	SOIL	= 3
III	FOOD	= 5
IV	ENERGY	= 5
V	POLLUTION	= 6
VI	LIMITS OF DEVELOPMENT	= 3
VII	CLIMATIC CHANGES	= 1
VIII	GLOBAL MONITORING OF THE PLANET	= 6
IX	NEW MILITARY THREATS IN THE MULTIPOLAR WORLD	= 3
X	SCIENCE AND TECHNOLOGY FOR DEVELOPING COUNTRIES TO AVOID A NORTH-SOUTH ENVIRONMENTAL HOLOCAUST	= 1
XI	THE PROBLEM OF ORGAN SUBSTITUTION	= 5
XII	INFECTIOUS DISEASES	= 7
XIII	CULTURAL POLLUTION	= 7
XIV	COMMON DEFENCE AGAINST COSMIC OBJECTS	= 2
XV	THE HUGE MILITARY INVESTMENTS	= 5
Total		= 63

The main topics of this 40th Session are:

- The World Energy Crisis, with a focus on:
 - firstly, the Present and Future status of Nuclear Power and,
 - secondly, in conjunction with the Food Emergency, the sustainability of the Biofuels solution, and,
 - thirdly, in conjunction with the Pollution Emergency, resolving the nuclear waste problem.
- Climatology, with a focus on:
 - firstly, Basic Theoretic Problems, on Models and Statistics, and
 - secondly, in conjunction with the Medicine Emergency, Air-borne Particulates and Health Consequences.
- Medicine, in conjunction with Climate, with a focus on Global Warming and Vector-borne Diseases.
- Information Security, with a focus on the Crisis in Internet Security.
- Global Monitoring of the Planet, a day-long session organised in co-operation with the Italian Ministry of Foreign Affairs, with a focus on Disarmament and Non-proliferation Regime.

We'll end up with Science and Technology, with a presentation on the Innovations in Screening Technologies, followed by the Permanent Monitoring Panel Chairs reports. We have a very heavy schedule ahead of us and I shall not delay any longer in calling Professor Jan Szyszko, who will talk about Forest Policies, Carbon Sequestration and Protection of Biodiversity.