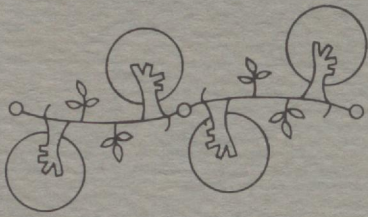


*N. S. Swaminathan*



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Keidannen Hall

Tokyo. Feb. 20, 97

The Japanese Federation of  
Economic Organizations  
Mainichi Symposium

Mr. Takeshi Hara ( has visited USSR )

Securing the biosphere safety  
Petroleum civilization - its consequences

Mr. Goro Hiraiwa, chairman of Keidannen

Linkage among earth, market, and mind  
- Symbiosis versus competition

Mr. Maurice Strong

Japan - a leader in sustainable  
economic development

Environmental + social responsibility  
of Japanese industry working abroad

Bert Bolin

Awareness - analysis - action.

Session I Challenge in the 21st century

Coexistence of earth, economy and humankind

Mr. ~~His~~ Kazuo Inamori

Kyoto - December 97 will host Conference  
of Parties III relating to climate convention

Numerical goals will be established

in Kyoto protocol.

Environmental transition started with agriculture  
 Farming land by removing forests  
Mass production & Mass Consumption must

give way to sustainable consumption

Economic environment should be  
 accompanied by a sense of contentment  
 It is possible to take to green industry.

Mr. Tadahiro Sekimoto, Chairman, NEC Corporation

NEC has strong time bound targets  
 for reducing air pollution

Energy is at the very root of environmental  
 problems.

30% of Japanese energy - nuclear

Teleconferences can cut down the use of energy

Waste disposal.

Technology can show the way for green

NEC - 40% reduction in emissions productivity

Mr Makoto Numata, Chair, Japan Nature  
 Conservation Society.

Ecology of grassland

Education on Environment

1972 - 1997 - 25 years after Stockholm



(3)

1972 - UNESCO - Man & Biosphere  
programme  
Red Data books are growing in number

Keidanren : Global Environment charter  
April 23, 1993

Be humble & live in harmony with  
Nature

Keidanren Kaikan (The Japanese  
Federation of Economic Organisations)

Symbiosis between humankind & Nature

Mr Numata has visited Himalayas many times

Mr Takashi Hara  
Saburo Kato } Co. chair

We are exceeding the carrying  
capacity of our planet.  
And greed and desire.

National affluence should be tempered  
by ~~life~~ spiritual influence & this  
leads to a state of contentment.



Prevent problems by anticipatory research and action

Apply science & technology & social rules and

action to prevent environmental degradation

Second age of Darwin species extinctions

Session II Population explosion and Global Environment

Fred Sci : Population & Environment

Population growth during the 20th century is unprecedented due to improved health care & longevity

Africa's 3% growth

Women everywhere want smaller families

Mr Yoichi Okazaki ) Panelist  
Ms Kiyoko Ikegami )

Ms Kiyoko Ikegami ( Environmental News )

Ms Ikegami: Population increase make it difficult to realize economic & social goals.

Carrying capacity - Land saving agriculture

Crisis in education

Crisis in jobs -



Co-chairs : Saburo Kato and Takeshi Hara

Mr. Tadao Koike, Chair, The Mainichi  
Newspaper

Mr. Kazuo Inamori. Buddhism  
Moderate material <sup>affluence</sup> ~~influence~~ with  
spiritual influence

Mahatma Gandhi. How can be  
non-violent to nature if  
we continue to be violent to each other

Nature provides for everybody's  
needs and not for everybody's greed.

21st Century goals

Unsustainable lifestyles  
and unacceptable  
poverty should become  
problems of the past



Dr Tsai Emphasis should be on both sexual and reproductive health + rights.

Biological nature but socio-psychologically immature  
————— Discussion

Prof Kaia : Mahatma Gandhi - respect over need  
unimaginable

The earth has ~~no~~ enough for everyone's needs

but not for everybody's greed

①

Sustainable globe

Sustainable countries

Sustainable societies

unsustainable  
concepts

②

Change in mindset

Technology + Economics + Ecology +  
Social Sciences

————— Eartechology

Start with integrating social concerns with  
technology development + demand

(3) Job-led growth - bio-villages

Mass enterprise - micro credit

Creation of livelihoods - skilled employment

Poverty alleviation <sup>transition</sup> for a patronage  
to a self-help

Reality - Can it become a mass movement?

Public policies

(4) Integrated intensive farming systems -

ever-green revolution -

sustainable agriculture

Productivity -  $\begin{matrix} \text{INS} \\ \text{IPS} \end{matrix}$

Chemicals excessive use is avoided

Will ever-green revolution be successful. (LEISA)

(5) Lester Brown Renewable energy

Integrated energy supply agriculture + energy - biomass  
kerosene wood - solar

biomass - solar energy -

Wasteland development - 80 million ha.

Problem crop up when one considers these problems on a global & macro scale.

Part

Environment - optimistic.

Two schools of thought

Ceteris Brown - pessimist  
MSF - optimistic

Most - pessimistic

Human civilization  
can come to end  
in the 21st  
century.

Most optimistic

Sustainable  
development

Crisis will emerge

Carbon - tax -

Polluter pays principle

Equity in sharing benefits

Take appropriate steps in a timely manner

Tokyo Declaration

Crisis <sup>overcome</sup>  
Dalthus - 940 million



