

APPENDIX I

PROGRAM

WEDNESDAY AUGUST 1

A.M. Registration

Opening Lecture
(Chairperson: T. Suzuki)

T. W. Clarkson A history of mercury

Break

Session 1: Fate in the Environment

(Chairperson: N. Imura)

R. Hecky Increased methylmercury contaminations in fish in
newly formed freshwater reservoirs
H. Akagi Speciation of mercury in the environment

Lunch

Session 2: Disposition in the Body

(Chairperson: S. Halbach)

R. Doi Individual difference of methylmercury metabolism in
animals and its significance in methylmercury toxicity
P. Kostyniak Mechanisms of urinary excretion of methylmercury

Break

(Chairperson: P. Kostyniak)

A. Naganuma Role of glutathione in mercury disposition
K. Hirayama Mechanism of renal handling of methylmercury
B. Kargacin Methods for decreasing ^{203}Hg retention in relation to age
and route of exposure.
C. Tohyama Immunohistochemical localization of metallothionein in organs
of rats treated with either cadmium, organic or inorganic
mercurials

Break

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Session 3: Biotransformation

(Chairperson: L. Magos)

- S. Halbach Intracellular utilization of hydrogenperoxide and oxidation of mercury vapor
H. Takahashi Differential determination of ionizable and unionizable forms of inorganic mercury in tissues

THURSDAY, AUGUST 2

Session 4: Molecular Mechanisms of Toxicity

(Chairperson: M. Costa)

- T. Narahashi Role of neuronal ion channels in mercury intoxication
M.A. Verity Role of oxidative injury in the pathogenesis of methylmercury neurotoxicity

Break

(Chairperson: M.A. Verity)

- S. Omata Alterations in gene expression due to methylmercury in central and peripheral nervous tissues of the rat
K. Miura Microtubules, a sensitive target of methylmercury cytotoxicity
M. Costa DNA damage by mercury compounds

Lunch

Session 5: Selenium as a Modifying Factor of Mercury Toxicity

(Chairperson: H. Takahashi)

- N. Imura Possible mechanism of detoxifying effect of selenium on the toxicity of mercury compounds
L. Magos Overview on the protection given by selenium against mercurials

Break

Session 6: Characteristic Toxicities

(Chairperson: T. Narahashi)

- H. Endou Effect of mercuric chloride on angiotensin II-induced Ca^{++} transient in the proximal tubule of rats
B. H. Choi Effects of methylmercury on the developing brain
M. Inouye Experimental approaches to developmental toxicity of methyl mercury

FRIDAY AUGUST 3

Session 6: (continued)

(Chairperson: B.H. Choi)

T. Sato Neuropathology of methylmercury intoxication
H. Satoh Behavioral toxicology of mercury compounds

Break

H. Arito Effect of methylmercury on sleep patterns in the rat
P. Druet Effect of inorganic mercury on the immune system

Lunch

Session 7: Clinical and Epidemiological Aspect

(Chairperson: T.W. Clarkson)

S. Skerfving Exposure to mercury compounds in the population
Y. Yamamura Blood and urinary mercury levels as indicators in biological
 monitoring of exposure to mercury vapor
A. Igata Clinical and epidemiological features of Minamata Disease

Break

Special Lecture and Closing Remarks

(Chairperson: A. Igata)

T. Suzuki Mercury in human ecology

APPENDIX II

PUBLICATIONS FROM ROCHESTER INTERNATIONAL CONFERENCES IN ENVIRONMENTAL TOXICITY

- 1968 Conference: Chemical Fallout: Current Research on Persistent Pesticides,
(eds. Miller and Berg),
Charles C. Thomas Publishers, Inc., 1969.
- 1969 Conference: Effects of Metals on Cells, Subcellular Elements, and
Macromolecules,
(eds. Maniloff, Coleman and Miller),
Charles C. Thomas Publishers, Inc., 1970.
- 1970 Conference: Assessment of Airborne Particles,
(eds. Mercer, Morrow and Stoeber),
Charles C. Thomas Publishers, Inc., 1971.
- 1971 Conference: Mercury, Mercurials and Mercaptans,
(eds. Miller and Clarkson),
Charles C. Thomas Publishers, Inc., 1973.
- 1972 Conference: Behavioral Toxicology,
(eds. Weiss and Laties),
Plenum Press, 1975.
- 1973 Conference: Molecular and Environmental Aspects of Mutagenesis,
(eds. Prakash, Sherman, Miller, Lawrence and Taber),
Charles C. Thomas Publishers, Inc., 1973.
- 1974 Conference: Fundamental and Applied Aspects of Non-Ionizing Radiation,
(eds. Michaelson, Miller, Magin and Carstensen),
Plenum Press, 1975.
- 1975 Conference: Environmental Toxicity of Aquatic Radionuclides: Models and
Mechanisms,
(eds. Miller and Stannard),
Ann Arbor Science Publications, 1976.
- 1976 Conference: Membrane Toxicity,
(eds. Miller and Shamoo),
Plenum Press, 1977.
- 1977 Conference: Environmental Pollutants: Detection and Measurement,
(eds. Toribara, Coleman, Dahneke and Feldman),
Plenum Press, 1978.

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- 1978 Conference: Neurotoxicity of the Visual System,
(eds. Merigan and Weiss),
Raven Press, 1980.
- 1979 Conference: Polluted Rain,
(eds. Toribara, Miller and Morrow),
Plenum Press, 1980.
- 1980 Conference: Measurement of Risks,
(eds. Berg and Maillie),
Plenum Press, 1981.
- 1981 Conference: Induced Mutagenesis: Molecular Mechanisms and their Implications
for Environmental Protection,
(ed. Lawrence),
Plenum Press, 1983.
- 1982 Conference: Reproductive and Developmental Toxicity of Metals,
(eds. Clarkson, Nordberg and Sager),
Plenum Press, 1983.
- 1984 Conference: The Cytoskeleton: A Target for Toxic Agents,
(eds. Clarkson, Sager and Syversen),
Plenum Press, 1986.
- 1986 Conference: Biological Monitoring of Toxic Metals,
(eds. Clarkson, Friberg, Nordberg and Sager),
Plenum Publishing Corp., New York, 1988.